

From: [McGill, Richard](#)
To: [Brown, Don](#)
Cc: [Paruchuri, Anupama](#); [Bilbruck, Shannon O.](#)
Subject: FW: Review of PCB document 35-218
Date: Thursday, June 4, 2026 11:49:57 AM
Attachments: [35-218RG-P JCAR predraft 5.6.26.docx](#)
[35-218RG-P Agency 5.6.26 \(ks comments\).docx](#)
[Litera Compare Redline - 35-218RG-P Agency 5.6.26 and 35-218RG-P JCAR 5.6.26 final.pdf](#)
[image001.png](#)

Good morning, Mr. Clerk,

Please docket as a public comment in R18-21 this email, including its attachments, sent from JCAR's Melissa Shipley to the Board's Shannon Bilbruck.

Thank you.

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From: Shipley, Melissa A. <MelissaS@ilga.gov>
Sent: Thursday, June 4, 2026 11:12 AM
To: Bilbruck, Shannon O. <Shannon.O.Bilbruck@Illinois.gov>
Cc: EXT eadministrativecode, ILSOS <eadministrativecode@ilsos.gov>; Schultz, Kimberly A. <KimberlyS@ilga.gov>; Bockewitz, Chrystal <crystalb@ilga.gov>
Subject: [External] Review of PCB document 35-218

Hi Shannon

JCAR has completed predraft technical review of the attached rulemaking 35-218. The goal of this technical review is to ensure the draft contains accurate background text, complies with the SOS Style manual (subsection labeling, spacing and indenting), and uses consistent capitalization and punctuation. Attached to this email is: a Word document of JCAR's version of the rulemaking and a PDF delta comparison, which compares PCB's version of the rulemaking to JCAR's version of the rulemaking.

We would appreciate a review of these documents prior to filing to correct any items flagged by the deltas. We also noticed that from time to time subsection headers have inconsistent punctuation (period v. no punctuation). Using one punctuation style in these instances would be preferred.

Thank you for the chance to comment prior to filing.

*Melissa Shipley
Joint Committee on Administrative Rules
700 Stratton Building
Springfield, IL 62706*

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**POLLUTION CONTROL BOARD
NOTICE OF PROPOSED AMENDMENTS**

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE B: AIR POLLUTION
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER c: EMISSIONS STANDARDS AND
LIMITATIONS FOR STATIONARY SOURCES

PART 218
ORGANIC MATERIAL EMISSION STANDARDS AND
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AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5].

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684,

Schwartz, J p [JS1] April 29, 2026
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effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007; amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill. Reg. 5330, effective March 23, 2010; amended in R10-8 at 34 Ill. Reg. 9096, effective June 25, 2010; amended in R10-20 at 34 Ill. Reg. 14174, effective September 14, 2010; amended in R10-8(A) at 35 Ill. Reg. 469, effective December 21, 2010; amended in R11-23 at 35 Ill. Reg. 13473, effective July 27, 2011; amended in R11-23(A) at 35 Ill. Reg. 18813, effective October 25, 2011; amended in R12-24 at 37 Ill. Reg. 1699, effective January 28, 2013; amended in R13-18 at 38 Ill. Reg. 1032, effective December 23, 2013; amended in R18-21 at 50 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 218.100 Introduction

- a) This Part contains standards and limitations for emissions of organic material and volatile organic material from stationary sources located in the Chicago area comprised of Cook, DuPage, Kane, Lake, McHenry, and Will Counties; Aux Sable Township and Goose Lake Township in Grundy County; and Oswego Township in Kendall County.
- b) Sources subject to this Part may be subject to:
 - 1) Permits required under 35 Ill. Adm. Code 201; and
 - 2) Air quality standards under 35 Ill. Adm. Code 243.
- c) This Part is divided into Subparts grouped as follows:
 - 1) Subpart A: General Provisions;
 - 2) Subparts B-F: Emissions from equipment and operations in common to more than one industry;
 - 3) Subpart G: Emissions from use of organic material;
 - 4) Subparts H-RR: Rules for various industry groups;
 - 5) Subpart TT: Rules for emission units not otherwise addressed; and
 - 6) Subpart UU: Recordkeeping and reporting for equipment and operations addressed by Subparts PP, QQ, RR, and TT.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.101 Savings Clause

- a) Every owner or operator of an emission unit formerly subject to 35 Ill. Adm. Code 215 must have complied with its standards and limitations by the dates and schedules applicable to the emission unit in compliance with 35 Ill. Adm. Code 215 or upon initial start-up. All compliance dates or schedules under 35 Ill. Adm. Code 215 are not superseded by this Part and remain in full force and effect.
- b) Nothing in this Part affects the responsibility of any owner or operator that is now or has been subject to the FIP to comply with its requirements by the dates specified in the FIP.
- c) As this Part is amended, nothing relieves the owner or operator of a source subject to this Part from the obligation to comply with the applicable requirements and compliance dates in Section 218.106 or any specific schedules under the applicable Subparts of this Part, even though those compliance dates may have been expressly superseded by subsequent amendments.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.102 Abbreviations and Conversion Factors

The abbreviations and conversion factors ~~at 35~~ at 35 Ill. Adm. Code 211.102 apply to this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.103 Applicability

This Part applies to all sources located in the Chicago area comprised of Cook, DuPage, Kane, Lake, McHenry, and Will Counties; Aux Sable Township and Goose Lake Township in Grundy County; and Oswego Township in Kendall County.

- a) This Part takes effect on July 1, 1991, with the following exceptions:
- 1) This Part takes effect on September 1, 1991, for each appellant, including the constituents represented by appellants who are associations, who has

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appealed the FIP for the Chicago area (Illinois Regulatory Group v. USEPA, No. 90-2778 (and consolidated cases) (7th Cir.)).

2) The effectiveness of any provision of this Part applicable to any individual source or category of sources which has appealed the FIP is stayed to the extent that the individual source or category of sources received a stay of the effectiveness of the FIP, pending reconsideration, from the USEPA or from the court in the FIP appeal cited in subsection (a)(1). When USEPA has published in the Federal Register final action to revise or affirm the provisions of the FIP specifically applicable to the individual source or category of sources or the stay is otherwise terminated, the Board must take corresponding action, and the Agency must submit that action to USEPA for approval. Until USEPA approves the corresponding amendment to this Part, the FIP rule remains the applicable implementation plan for that source or category of sources under the Clean Air Act.

3) This Part takes effect on November 15, 1992, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County, or in Oswego Township in Kendall County.

b) This Part does not apply to Viskase Corporation; Allsteel, Incorporated; Stepan Company; or Ford Motor Company to the extent that the source has obtained an adjusted standard from the Board or an exclusion from the General Assembly for any Subpart of this Part or 35 Ill. Adm. Code 215.

(BOARD NOTE: Section 218.103(b) is effective at the federal level only when USEPA approves it.)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

~~Section 218.104 Definitions~~

~~The definitions of 35 Ill. Adm. Code 211 apply to this Part.~~

~~(Source: Amended at 17 Ill. Reg. 16636, effective September 27, 1993.)~~

Section 218.105 Test Methods and Procedures

~~a)~~ a) Coatings, Inks, and Fountain Solutions
The following test methods and procedures must be used to determine compliance of as applied coatings, inks, and fountain solutions with the limitations in this Part.

Schwartz, J p [JS2] April 29, 2026
09:36 AM
Remove this section, as no changes were made to it.

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- 1) Sampling: Samples collected for analyses must be one-liter taken into a one-liter container at a location and time so that the sample will be representative of the coating as applied (i.e., the sample must include any dilution solvent or other VOM added during the manufacturing process). The container must be tightly sealed immediately after the sample is taken. Any solvent or other VOM added after the sample is taken must be measured and accounted for in the calculations in subsection (a)(3). For multiple package coatings, separate samples of each component must be obtained. A mixed sample must not be obtained as it will cure in the container. Sampling procedures must follow the guidelines in:
 - A) ASTM D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigment Coating, incorporated by reference in Section 218.112.
 - B) ASTM E300-03 (2022) Standard Practice for Sampling Industrial Chemicals, incorporated by reference in Section 218.112.
 - 2) Analyses: The applicable analytical methods in this subsection (a)(2) must be used to determine the composition of coatings, inks, or fountain solutions as applied.
 - A) Method 24 of 40 CFR 60. Appendix A-7, incorporated by reference in Section 218.112, ~~must~~shall be used to determine the VOM content and density of coatings. If it is demonstrated to the satisfaction of the Agency and USEPA that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. If there is any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.
 - B) Method 24A of 40 CFR 60. Appendix A-7, incorporated by reference in Section 218.112, ~~must~~shall be used to determine the VOM content and density of rotogravure printing inks and related coatings. If it is demonstrated to the satisfaction of the Agency and USEPA that the plant coating formulation data are equivalent to Method 24A results, formulation data may be used. If there is any inconsistency between a Method 24A test and formulation data, the Method 24A test will govern.

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- C) The following ASTM methods are the analytical procedures to determine VOM:
- i) ASTM D1475-13 (2020) Standard Test Method for Density of Paint Varnish, Lacquer, and Related Products, incorporated by reference in Section 218.112.
 - ii) ASTM D2369-24 Standard Test Method for Volatile Content of a Coating, incorporated by reference in Section 218.112.
 - iii) ASTM D3792-16 (2002) Standard Test Method for Water Content of Water Reducible Paints by Direct Injection Into a Gas Chromatograph, incorporated by reference in Section 218.112.
 - iv) ASTM D4017-22 Standard Test Method for Waer in Paints and Paint Material by Karl Fischer Method, incorporated by reference in Section 218.112.
 - v) ASTM D4457-02 (2014) Standard Test Method for Determination of Dichloromethane and 1,1,1, Trichloroethane in Paints and Coatings by Direct Injection into a Gas Chromatograph, incorporated by reference in Section 218.112 of this Part. This method can be used to develop protocols for any compounds specifically exempted from the definition of VOM.
 - vi) ASTM D2697-22 Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings, incorporated by reference in Section 218.112.
 - vii) ASTM E180-03 Standard Practice for Determining the Precision Data of ASTM Methods for Analysis of and Testing of Industrial Chemicals, incorporated by reference in Section 218.112.
 - viii) ASTM ~~D2372-85~~ D 2372-85 (2022) Standard Practice for Separation of Vehicle from Solvent-Reducible Paints, incorporated by reference in Section 218.112.

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- 616
- 617 D) An ~~an~~ adaptation to any of the analytical methods in subsections
- 618 (a)(2)(A), (B), and (C) may not be used unless approved by the
- 619 Agency and USEPA. An owner or operator must submit sufficient
- 620 documentation for the Agency and USEPA to find that the
- 621 analytical methods in subsections (a)(2)(A), (B), and (C) will yield
- 622 inaccurate results and that the proposed adaptation is appropriate.
- 623
- 624 3) Calculations: Calculations to determine the VOM content, water content,
- 625 and content of any compounds specifically exempted from the definition
- 626 of VOM of coatings, inks, and fountain solutions as applied must follow
- 627 the guidance in the following documents:
- 628
- 629 A) "A Guideline for Surface Coating Calculation", July 1986,
- 630 EPA-340/1-86-016, incorporated by reference in Section 218.112.
- 631
- 632 B) "Procedures for Certifying Quantity of Volatile Organic
- 633 Compounds Emitted by Paint, Ink and Other Coatings" (revised
- 634 June 1986), EPA-450/3-84-019, incorporated by reference in
- 635 Section 218.112.
- 636
- 637 C) "A Guide for Graphic Arts Calculations", August 1988,
- 638 EPA-340/1-88-003, incorporated by reference in Section 218.112.
- 639
- 640 b) Automobile or Light-Duty Truck Test Protocol
- 641
- 642 1) The protocol for testing, including determining the transfer efficiency of
- 643 coating applicators, at primer surfacer operations and topcoat operations at
- 644 an automobile or light-duty truck assembly source must follow the
- 645 procedures in the following:
- 646
- 647 A) Before May 1, 2012: "Protocol for Determining the Daily Volatile
- 648 Organic Compound Emission Rate of Automobile and Light-Duty
- 649 Truck Topcoat Operations" ("topcoat protocol"), December 1988,
- 650 EPA-450/3-88-018, incorporated by reference in Section 218.112.
- 651
- 652 B) On and after May 1, 2012: "Protocol for Determining the Daily
- 653 Volatile Organic Compound Emission Rate of Automobile and
- 654 Light-Duty Truck Primer-Surfacer and Topcoat Operations"
- 655 ("topcoat protocol"), September 2008, EPA-453/R-08-002,
- 656 incorporated by reference in Section 218.112.

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2) Before testing under the applicable topcoat protocol, the owner or operator of a coating operation subject to the topcoat or primer surfacer limit in Section 218.204(a)(2), (a)(3), or (a)(5) must submit a detailed testing proposal specifying the method by which testing will be conducted and how compliance will be demonstrated consistent with the applicable topcoat protocol. The proposal must include:

- A) A comprehensive plan (including a rationale) to determine the transfer efficiency at each booth through in-plant or pilot testing;
- B) The selection of coatings to be tested (to determine transfer efficiency), including the rationale for coating groupings;
- C) The method to determine the analytic VOM content of as applied coatings and the formulation solvent content of as applied coatings; and
- D) A description of the records of coating VOM content as applied and coating's usage that will be kept to demonstrate compliance.

~~3)~~ 3) When the Agency and USEPA approve the proposal, the compliance demonstration for a coating line may proceed.

c) Capture System Efficiency Test Protocols

- 1) Applicability.
Subsection (c)(2) must apply to all VOM emitting process emission units employing capture equipment (e.g., hoods, ducts), except those in this subsection (c)(1).
 - A) If an emission unit is equipped with or uses a permanent total enclosure (PTE) that meets Agency and USEPA specifications and directs all VOM to a control device, then the emission unit is exempted from the requirements in subsection (c)(2). The Agency and USEPA specifications to determine whether a structure is considered a PTE are in Method 204 of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112. In this instance, the capture efficiency is assumed to be 100%, and the emission unit is still required to measure control efficiency using appropriate test methods in subsection (d).

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B) If an emission unit is equipped with or uses a control device designed to collect and recover VOM (e.g., carbon adsorber), an explicit measurement of capture efficiency is not necessary if the conditions in this subsection (c)(1)(B) are met. The overall control of the system can be determined by directly comparing the input liquid VOM to the recovered liquid VOM. The general procedure for use in this situation is in 40 CFR 60.433, incorporated by reference in Section 218.112, with the following additional restrictions:

~~(i)~~ i) Unless otherwise specified in subsection (c)(1)(B)(ii), the owner or operator must obtain data each operating day for the solvent usage and solvent recovery to permit determining the solvent recovery efficiency of the system each operating day using a 7-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent previous 6 operating days to the total solvent usage for the same 7-day period used for the recovered solvent, rather than a 30-day weighted average under 40 CFR 60.433, incorporated by reference at Section 218.112. This ratio must be expressed as a percentage. The ratio must be computed within 72 hours after each 7-day period. A source that believes that the 7-day rolling period is not appropriate may use an alternative multi-day rolling period of up to 30 days, with the approval of the Agency and USEPA. In addition, the source must meet the criteria in subsection (c)(1)(B)(iii) or (c)(1)(B)(iv).

ii) The owner or operator of the source engaged in printing located at 350 East ~~22nd Street~~ 22nd Street, Chicago, must obtain data each operating day for the solvent usage and solvent recovery to permit determining the solvent recovery efficiency of the system each operating day using a 14-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent previous 13 operating days to the total solvent usage for the same 14-day period used for the recovered solvent, rather than a 30-day weighted average under 40 CFR 60.433, incorporated by reference in

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Section 218.112. This ratio must be expressed as a percentage. The ratio ~~must be~~ must be computed within 17 days after each 14-day period. In addition, the source must meet the criteria in subsection (c)(1)(B)(iii) or (c)(1)(B)(iv).

iii) The solvent recovery system (i.e., capture and control system) must be dedicated to a single coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard.

iv) If the solvent recovery system controls more than one coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard, the overall control (i.e., the total recovered VOM divided by the sum of liquid VOM input from all lines and other activities venting to the control system) must meet or exceed the most stringent standard applicable to any line or other discrete activity venting to the control system.

- 2) Capture Efficiency Protocols. The capture efficiency of an emission unit must be measured using one of the protocols in this subsection (c)(2). Appropriate test methods to be used in each of the capture efficiency protocols are in 40 CFR 51. Appendix M, incorporated by reference at Section 218.112. Any error margin associated with a test method or protocol may not be incorporated into the results of a capture efficiency test. If these techniques are not suitable for a particular process, then an alternative capture efficiency protocol may be used under Section 218.108(b).

- A) Gas/gas method using temporary total enclosure (TTE). The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are in Method 204 of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{G_w}{G_w + F_w}$$

where:

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- CE = Capture efficiency, decimal fraction;
G_w = Mass of VOM captured and delivered to control device using a TTE;
F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204B or 204C in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain G_w. Method 204D in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain F_w.

- B) Liquid/gas method using TTE. The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are in Method 204 of 40 CFR 51.Appendix M, incorporated by reference in Section 218.112. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_w}{L}$$

where:

- CE = Capture efficiency, decimal fraction;
L = Mass of liquid VOM input to process emission unit;
F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204A or 204F in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain L. Method 204 D in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain F_w.

- C) Gas/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, and in which "F_B" and "G" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

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$$CE = \frac{G}{G + F_B}$$

where:

CE = Capture efficiency, decimal fraction;
G = Mass of VOM captured and delivered to control device;
F_B = Mass of uncaptured VOM that escapes from building enclosure.

Method 204B or 204C in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain G. Method 204E in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, is used to obtain F_B.

- D) Liquid/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of 40 CFR 51.Appendix M, incorporated by reference in Section 218.112, and in which "F_B" and "L" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_B}{L}$$

where:

CE = Capture efficiency, decimal fraction;
L = Mass of liquid VOM input to process emission unit;
F_B = Mass of uncaptured VOM that escapes from building enclosure.

Method 204A or 204F in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112 is used to obtain L. Method 204E in 40 CFR 51.Appendix M, incorporated by reference in Section 218.112 is used to obtain F_B.

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- 841 E) Mass balance using Data Quality Objective (DQO) or Lower
842 Confidence Limit (LCL) protocol. For a liquid/gas input where an
843 owner or operator is using the DQO/LCL protocol and not using an
844 enclosure as described in Method 204 of 40 CFR 51. Appendix M,
845 incorporated by reference in Section 218.112, the VOM content of
846 the liquid input (L) must be determined using Method 204A or
847 204F in 40 CFR 51. Appendix M, incorporated by reference in
848 Section 218.112. The VOM content of the captured gas stream (G)
849 to the control device must be determined using Method 204B or
850 204C in 40 CFR 51. Appendix M, incorporated by reference in
851 Section 218.112. The results of capture efficiency calculations
852 (G/L) must satisfy the DQO or LCL statistical analysis protocol in
853 Section 3 of USEPA's "Guidelines for Determining Capture
854 Efficiency," incorporated by reference at Section 218.112. Where
855 capture efficiency testing is done to determine emission reductions
856 for establishing emission credits for offsets, shutdowns, and
857 trading, the LCL protocol cannot be used for these applications. In
858 enforcement cases, the LCL protocol cannot confirm
859 non-compliance; capture efficiency must be determined using a
860 protocol under subsection (c)(2)(A), (B), (C), or (D), the DQO
861 protocol of this subsection (c)(2)(E), or an alternative protocol
862 under Section 218.108(b).
863

864 BOARD NOTE: Where LCL was used in testing emission units
865 that are the subject of later requests for establishing emission
866 credits for offsets, shutdowns, and trading, prior LCL results may
867 not be relied upon to determine the appropriate amount of credits.
868 Instead, to establish the appropriate amount of credits, additional
869 testing may be required that would satisfy the protocol of Section
870 218.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section
871 218.105(c)(2)(E), or an alternative protocol under Section
872 218.108(b).
873

- 874 3) Simultaneous testing of multiple lines or emission units with a common
875 control device. If an owner or operator has multiple lines sharing a
876 common control device, the capture efficiency of the lines may be tested
877 simultaneously, subject to the following provisions:
878
- 879 A) Multiple line testing must meet the criteria of Section 4 of
880 USEPA's "Guidelines for Determining Capture Efficiency,"
881 incorporated by reference at Section 218.112;

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- B) The most stringent capture efficiency required for any individual line or unit must be met by the aggregate of lines or units; and
 - C) Testing of all the lines of emission units must be performed with the same capture efficiency test protocol.
- 4) Recordkeeping and Reporting
- A) All owners or operators to which this subsection applies must maintain on file a copy of the capture efficiency protocol submitted to the Agency and USEPA. All results of the appropriate test methods and capture efficiency protocols must be reported to the Agency within 60 days after the test date. A copy of the results must be kept on file with the source for three years.
 - B) If any changes are made to capture or control equipment, then the source must notify the Agency and USEPA of these changes, and a new test may be required by the Agency or USEPA.
 - C) The source must notify the Agency 30 days before performing any capture efficiency or control test. At that time, the source must notify the Agency which capture efficiency protocol and control device test methods will be used. Notification of the actual date and expected time of testing must be submitted at least five working days before the actual date of the test. The Agency may at its discretion accept notification with shorter advance notice if those arrangements do not interfere with the Agency's ability to review the protocol or observe testing.
 - D) Sources using a PTE must demonstrate that this enclosure meets the requirements of Method 204 in 40 CFR 51. Appendix M, incorporated by reference in Section 218.112, for a PTE during any testing of their control device.
 - E) Sources using a TTE must demonstrate that their TTE meets the requirements of Method 204 in 40 CFR 51. Appendix M, incorporated by reference in Section 218.112, for a TTE during testing of their control device. The source must also provide documentation that the quality assurance criteria for a TTE have been achieved.

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- 924 F) Any source using the DQO or LCL protocol must submit the
- 925 following information to the Agency with each test report:
- 926
- 927 i) A copy of all test methods, Quality Assurance/Quality
- 928 Control procedures, and calibration procedures to be used
- 929 from those in 40 CFR 51. Appendix M, incorporated by
- 930 reference in Section 218.112;
- 931
- 932 ii) A table with information on each sample taken, including
- 933 the sample identification and the VOM content of the
- 934 sample;
- 935
- 936 iii) The quantity of material used for each test run;
- 937
- 938 iv) The quantity of captured VOM for each test run;
- 939
- 940 v) The capture efficiency calculations and results for each test
- 941 run;
- 942
- 943 vi) The DQO or LCL calculations or both and results; and
- 944
- 945 vii) The Quality Assurance/Quality Control results, including
- 946 how often the instruments were calibrated, the calibration
- 947 results, and the calibration gases used.
- 948
- 949 d) Control Device Efficiency Testing and Monitoring
- 950
- 951 1) The control device efficiency must be determined by simultaneously
- 952 measuring the inlet and outlet gas phase VOM concentrations and gas
- 953 volumetric flow rates in compliance with the gas phase test methods in
- 954 subsection (f).
- 955
- 956 2) An owner or operator:
- 957
- 958 A) That uses an afterburner or carbon adsorber to comply with any
- 959 section of Part 218 must use Agency and USEPA approved
- 960 continuous monitoring equipment which is installed, calibrated,
- 961 maintained, and operated according to vendor specifications at all
- 962 times the control device is in use, except under subsection (d)(3).
- 963 The continuous monitoring equipment must monitor the following

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parameters:

- i) For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner;—
- ii) For each afterburner which has a catalyst bed, commonly known as a catalytic afterburner, the temperature rise across each catalytic afterburner bed or VOM concentration of exhaust.
- iii) For each carbon adsorber, the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.

B) Must install, calibrate, operate, and maintain in compliance with manufacturer's specifications a continuous recorder on the temperature monitoring device, such as a strip chart, recorder, or computer, with an accuracy of $\pm 1\%$ of the temperature measured in degrees Celsius or $\pm 0.5^\circ\text{C}$, whichever is greater.

C) Of an automobile or light-duty truck primer surfacer operation or topcoat operation subject to subsection (d)(2)(A) must keep a separate record of the following data for the control devices, unless alternative provisions are in a permit under Title V of the CAA:

- i) For thermal afterburners for which combustion chamber temperature is monitored, all 3-hour periods of operation in which the average combustion temperature was more than 28°C (50°F) below the average combustion temperature measured during the most recent performance test that demonstrated that the operation was in compliance.
- ii) For catalytic afterburners for which temperature rise is monitored, all 3-hour periods of operation in which the average gas temperature before the catalyst bed is more than 28°C (50°F) below the average gas temperature immediately before the catalyst bed measured during the most recent performance test that demonstrated that the operation was in compliance.
- iii) For catalytic afterburners and carbon adsorbers for which

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VOM concentration is monitored, all 3-hour periods of operation during which the average VOM concentration or the reading of organics in the exhaust gases is more than 20% greater than the average exhaust gas concentration or reading measured by the organic monitoring device during the most recent determination of the recovery efficiency of a carbon adsorber or performance test for a catalytic afterburner that demonstrated that the operation was in compliance.

- 3) An owner or operator that uses a carbon adsorber to comply with Section 218.401 may operate the adsorber during periods of monitoring equipment malfunction if:
- A) The owner or operator notifies the Agency in writing within 10 days after the conclusion of any 72-hour period during which the adsorber is operated and the associated monitoring equipment is not operational of the monitoring equipment failure and provides the duration of the malfunction, a description of the repairs made to the equipment, and the total to date of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational;
 - B) During the period of malfunction, the adsorber is operated using timed sequences as the basis for periodic regeneration of the adsorber;
 - C) The period of adsorber operation does not exceed 360 hours in any calendar year without the approval of the Agency and USEPA; and
 - D) The total of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational must be reported in writing to the Agency and USEPA by January 31 of the next calendar year.
- e) Overall Efficiency
- 1) The overall efficiency of the emission control system must be determined as the product of the capture system efficiency and the control device efficiency or by the liquid/liquid test protocol in 40 CFR 60.433, incorporated by reference in Section 218.112, (and revised by subsection

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(c)(1)(B)) for each solvent recovery system. When the overall efficiency is being determined for an entire line, the capture efficiency used to calculate the product of the capture and control efficiency is the total capture efficiency over the entire line.

- 2) For coating lines which are both chosen by the owner or operator to comply with Section 218.207(c), (d), (e), (f), (g), (m), or (n) by the alternative in Section 218.207(b)(2) and meet the criteria allowing them to comply with Section 218.207 instead of Section 218.204, the overall efficiency of the capture system and control device, as determined by the test methods and procedures in subsections (c), (d), and (e)(1) must be at least the equivalent overall efficiency calculated by the following equation:

$$E = \frac{VOM_a - VOM_l}{VOM_a} \times 100$$

where:

E = Equivalent overall efficiency of the capture system and control device as a percentage;

VOM_a = Actual VOM content of a coating, or the daily-weighted average VOM content of two or more coatings (if more than one coating is used), as applied to the subject coating line as determined by the applicable test methods and procedures in subsection (a) in units of kg VOM/l (lb VOM/gal) of coating solids as applied;

VOM_l = The VOM emission limit in Section 218.204 or 218.205 in units of kg VOM/l (lb VOM/gal) of coating solids as applied.

- f) VOM Gas Phase Source Test Methods.
The methods in 40 CFR 60.Appendix A, incorporated by reference in Section 218.112, must be used to determine control device efficiencies.
- 1) 40 CFR 60.Appendix A-6, Method 18 and Appendix A-7, Method 25 or 25A, incorporated by reference in Section 218.112, as appropriate to the conditions at the site, must be used to determine VOM concentration. Method selection must be based on considering the diversity of organic

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species present and their total concentration and the potential presence of interfering gases. Except as indicated in subsections (f)(1)(A) and (B), the test must consist of three separate runs, each lasting a minimum of 60 minutes, unless the Agency and USEPA determine that process variables dictate shorter sampling times.

A) When the method is to be used to determine the efficiency of a carbon adsorption system with a common exhaust stack for all the individual adsorber vessels, the test must consist of three separate runs, each coinciding with one or more complete sequences through the adsorption cycles of all the individual absorber vessels.

B) When the method is to be used to determine the efficiency of a carbon adsorption system with individual exhaust stacks for each absorber vessel, each adsorber vessel must be tested individually. The test for each absorber vessel must consist of three separate runs. Each run must coincide with one or more complete adsorption cycles.

- 2) 40 CFR 60.Appendix A-1, Method 1 or 1A, incorporated by reference in Section 218.112, must be used for sample and velocity traverses.
- 3) 40 CFR 60.Appendix A-1, Method 2, 2A, 2C, or 2D, incorporated by reference in Section 218.112, must be used for velocity and volumetric flow rates.
- 4) 40 CFR 60.Appendix A-2, Method 3, incorporated by reference in Section 218.112, must be used for gas analysis.
- 5) 40 CFR 60.Appendix A-3, Method 4, incorporated by reference in Section 218.112, must be used for stack gas moisture.
- 6) 40 CFR 60.Appendix A-1, Methods 2, 2A, 2C, and 2D, Appendix A-2, Method 3, and Appendix A-3, Method 4, incorporated by reference in Section 218.112, must be performed, as applicable, at least twice during each test run.
- 7) An adaptation to any of the test methods in subsections (f)(1), (2), (3), (4), (5), and (6) may not be used unless approved by the Agency and USEPA on a case by case basis. An owner or operator must submit sufficient documentation for the Agency and USEPA to find that the test methods in

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subsections (f)(1), (2), (3), (4), (5), and (6) of this Section will yield inaccurate results and that the proposed adaptation is appropriate.

- g) Leak Detection Methods for VOM.
Owners or operators required by this Part to carry out a leak detection monitoring program must comply with the following requirements:
- 1) Leak Detection Monitoring
 - A) Monitoring must comply with 40 CFR 60. Appendix A-7, Method 21, incorporated by reference in Section 218.112.
 - B) The detection instrument must meet the performance criteria of Method 21.
 - C) The instrument must be calibrated before use on each day of its use by the methods in Method 21.
 - D) Calibration gases must be:
 - i) Zero air (less than 10 ppm of hydrocarbon in air); and
 - ii) A mixture of methane or n-hexane and air at a concentration of approximately, but at least, 10,000 ppm methane or n-hexane.
 - E) The instrument probe must be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.
 - 2) When equipment is tested for compliance with no detectable emissions as required, the test must comply with the following requirements:
 - A) The requirements of subsections (g)(1)(A) through (g)(1)(E) must apply.
 - B) The background level must be determined under Method 21.
 - 3) Leak detection tests must be performed consistent with:
 - A) "APTI Course SI 417 ~~Controlling~~controlling Volatile Organic

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- Compound Emissions from Leaking Process Equipment,"
EPA-450/2-82-015, incorporated by reference in Section 218.112.
- B) "Portable Instrument User's Manual for Monitoring VOC Sources,"
EPA-340/1-86-015, incorporated by reference in Section 218.112.
- C) "Protocols for Generating Unit-Specific Emission Estimates for
Equipment Leaks of VOC and VHAP," EPA-450/3-88-010,
incorporated by reference in Section 218.112.
- D) "Petroleum Refinery Enforcement Manual," EPA-340/1-80-008,
incorporated by reference in Section 218.112.
- h) Bulk Gasoline Delivery System Test Protocol
- 1) The method to determine the emissions of gasoline from a vapor recovery
system is at 40 CFR 60.503, incorporated by reference in Section 218.112.
- 2) Other tests must be performed consistent with:
- A) "Inspection Manual for Control of Volatile Organic Emissions
from Gasoline Marketing Operations: Appendix D,"
EPA-340/1-80-012, incorporated by reference in Section 218.112.
- B) "Control of Hydrocarbons from Tank Truck Gasoline Loading
Terminals: Appendix A," EPA-450/2-77-026, incorporated by
reference in Section 218.112.
- i) Despite other requirements of this Part, upon request of the Agency where it is
necessary to demonstrate compliance, an owner or operator of an emission unit
subject to this Part must at its own expense conduct tests in compliance with the
applicable test methods and procedures in this Part. Nothing in this Section limits
USEPA's authority under the CAA, as amended, to require testing.
- j) Stage II Gasoline Vapor Recovery Test Methods.
The methods to determine the acceptable performance of Stage II Gasoline Vapor
Recovery System are in "Technical Guidance-Stage II Vapor Recovery Systems
for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities,"
EPA 450/3-91-022b and incorporated by reference in Section 218.112. These test
methods are:

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- 1) Dynamic Backpressure Test, used to determine the pressure drop (flow resistance) through balance vapor collection and control systems (including nozzles, vapor hoses, swivels, dispenser piping, and underground piping) at prescribed flow rates.
- 2) Pressure Decay/Leak Test, used to quantify the vapor tightness of a vapor collection and control system installed at gasoline dispensing facilities.
- 3) Liquid Blockage Test, used to detect low points in any vapor collection and control system where condensate may accumulate.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.106 Compliance Dates

- a) Except as otherwise provided in this Section or a specific Subpart of this Part, compliance with all rules is required by July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage, Kane, Lake, McHenry, or Will Counties, consistent with the appropriate provisions of Section 218.103.
- b) Except as otherwise provided in this Section or a specific Subpart of this Part, compliance with this Part is required by November 15, 1993, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County or in Oswego Township in Kendall County.
- c) All emission units which meet the applicability requirements of Sections 218.402(a), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b), 218.940(b), 218.960(b), or 218.980(b), including emission units at sources excluded from the applicability criteria of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) by virtue of permit conditions or other enforceable means, must comply with Subparts H, Z, AA, CC, DD, PP, QQ, RR, or TT, respectively, by March 15, 1995. Any owner or operator of an emission unit which has already met the applicability requirements of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) by the effective date of this subsection is required to comply with all compliance dates or schedules in Section 218.106(a) or 218.106(b), as applicable.
- d) Any owner or operator of a source with an emission unit subject to Section 218.204(m)(2) or (m)(3) ~~must~~shall comply with those requirements by March 25,

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- e) Any owner or operator of a source subject to Section 218.204(c)(1), 218.204(g)(1), or 218.204(h)(1) must comply with the applicable requirements in the applicable subsections and all applicable requirements in Sections 218.205 through 218.214 and 218.218 by May 1, 2012.
- f) Any owner or operator of a source subject to Section 218.204(p) must comply with the requirements in Section 218.204(p) and all applicable requirements in Sections 218.205 through 218.211, 218.214, and 218.217 by August 1, 2010.
- g) Any owner or operator of a source subject to Section 218.204(a) or 218.204(q) must comply with the applicable requirements in those Sections and all applicable requirements in Sections 218.205 through 218.214 and 218.219 by May 1, 2012.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.107 Operating Afterburners

Operating any natural gas fired afterburner and capture system used to comply with this Part is not required from November 1 of any year to April 1 of the next year, if operating the devices is not required for occupational safety or health or to control toxic substances, odor nuisances, or other regulated pollutants.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.108 Exemptions, Variations, and Alternative Means of Control or Compliance Determinations

Despite any other Sections of this Part:

- a) Any exemptions, variations, or alternatives adopted by the Board under Section 28, 28.1, or 35 of the Act to the control requirements, emission limitations, or test methods in this Part are effective only when approved by USEPA as a SIP revision.
- b) Any equivalent alternative control plan, equivalent device, or other equivalent alternative practice authorized by the Agency where this Part provides for the alternative or equivalent practice or equivalent variations or alterations to test

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methods approved by the Agency is effective only when included in a federally enforceable permit or approved as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.109 Vapor Pressure of Volatile Organic Liquids

- a) If the VOL consists of only a single compound, the vapor pressure must be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112 of this Part, or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried, and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by ~~reference~~reference in Section 218.112.
- b) If the VOL is a mixture, the vapor pressure must be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112, or by the following equation:

$$P_{\text{vol}} = \sum_{i=1}^n P_i X_i$$

$$P_{\text{vol}} = \sum_{i=1}^n P_i X_i$$

where:

P_{vol}	=	Total vapor pressure of the mixture;
n	=	Number of components in the mixture;
i	=	Subscript denoting an individual component;
P_i	=	Vapor pressure of a component determined in compliance with subsection (a);
X_i	=	Mole fraction of the component in the total mixture.

~~P_{vol} = Total vapor pressure of the mixture;~~
 ~~n = Number of components in the mixture;~~

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- i = Subscript denoting an individual component;
 P_i = Vapor pressure of a component determined in compliance with subsection (a);
 X_i = Mole fraction of the component in the total mixture.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.110 Vapor Pressure of Organic Material or Solvent

- a) If the organic material or solvent consists of only a single compound, the vapor pressure must be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112 of this Part, or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried, and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by reference in Section 218.112.
- b) If the organic material or solvent is in a mixture made up of both organic material compounds and compounds which are not organic material, the vapor pressure must be determined by the following equation:

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(Modified)

$$P_{om} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

where:

P_{om} = Total vapor pressure of the portion of the mixture which is composed of organic material;
 n = Number of organic material components in the mixture;

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i = Subscript denoting an individual component;

P_i = Vapor pressure of an organic material component
determined in compliance with subsection (a);

X_i = Mole fraction of the organic material component of the
total organic mixture.

P_{om} = Total vapor pressure of the portion of the mixture which is
composed of organic material;

n = Number of organic material components in the mixture;

i = Subscript denoting an individual component;

P_i = Vapor pressure of an organic material component determined in
compliance with subsection (a);

X_i = Mole fraction of the organic material component of the total
organic mixture.

- c) If the organic material or solvent is in a mixture made up of only organic material compounds, the vapor pressure must be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112, or by the equation in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.111 Vapor Pressure of Volatile Organic Material

- a) If the VOM consists of only a single compound, the vapor pressure must be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112, or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried, and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by reference in Section 218.112.
- b) If the VOM is in a mixture made up of both VOM compounds and compounds which are not VOM, the vapor pressure must be determined by the following

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equation:

$$P_{\text{vom}} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

(Modified)

where:

P_{vom}	=	Total vapor pressure of the portion of the mixture which is composed of VOM;
n	=	Number of VOM components in the mixture;
i	=	Subscript denoting an individual component;
P_i	=	Vapor pressure of a VOM component determined in compliance with subsection (a);
X_i	=	Mole fraction of the VOM component of the total organic mixture.

~~P_{vom} = Total vapor pressure of the portion of the mixture which is composed of VOM;~~

~~n = Number of VOM components in the mixture;~~

~~i = Subscript denoting an individual component;~~

~~P_i = Vapor pressure of a VOM component determined in compliance with subsection (a);~~

~~X_i = Mole fraction of the VOM component of the total organic mixture.~~

- c) If the VOM is in a mixture made up of only VOM compounds, the vapor pressure ~~must~~shall be determined by ASTM Method D2879-18, incorporated by reference in Section 218.112 of this Part, or by the equation in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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1397

Section 218.112 Incorporations by Reference

The following materials are incorporated by reference and do not contain any subsequent additions or amendments.

- a) American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken PA 19428-2959:
- 1) ASTM D2879-18 Standard Test Method for Vapor Pressure – Temperature Relationships and Initial Decomposition Temperature of Liquids by Isoteniscope
 - 2) ASTM D323-20a Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)
 - 3) ASTM D86-23a Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure
 - 4) ASTM D369-84 (2002) Standard Test Method for Specific Gravity of Creosote Fractions and Residue
 - 5) ASTM D396-24 Standard Specification for Fuel Oils
 - 6) ASTM D2880-23 Standard Specification for Gas Turbine Fuel Oils
 - 7) ASTM D975-24 Standard Specification for Diesel Fuel
 - 8) ASTM D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigmented Coatings
 - 9) ASTM E300-03 (2022) Standard Practice for Sampling Industrial Chemicals
 - 10) ASTM D1475-13 (2020) Standard Test Method for Density of Liquid Coatings, Inks, and Related Products
 - 11) ASTM D2369-24 Standard Test Method for Volatile Content of Coatings
 - 12) ASTM D3792-16 (2022) Standard Test Method for Water Content of

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Coatings by Direct Injection Into a Gas Chromatograph

- 1437
1438
1439 13) ASTM D4017-22 Standard Test Method for Water in Paints and Paint
1440 Materials by Karl Fischer Method
1441
1442 14) ASTM D4457-02 (2014) Standard Test Method for Determination of
1443 Dichloromethane and 1,1,1-Trichloroethane in Paints and Coatings by
1444 Direct Injection Into a Gas Chromatograph
1445
1446 15) ASTM D2697-22 Standard Test Method for Volume Nonvolatile Matter
1447 in Clear of Pigmented Coatings
1448
1449 16) ASTM E180-03 Standard Practice for Determining the Precision of
1450 ASTM Methods for Analysis and Testing of Industrial and Specialty
1451 Chemicals
1452
1453 17) ASTM D2372-85 (2022) Standard Practice for Separation of Vehicle from
1454 Solvent-Reducible Paints
1455
1456 18) ASTM D97-17b (2022) Standard Test Method for Pour Point of
1457 Petroleum Products
1458
1459 19) ASTM E168-16 (2023) Standard Practices for General Techniques of
1460 Infrared Quantitative Analysis
1461
1462 20) ASTM E169-16 (2022) Standard Practices for General Techniques of
1463 Ultraviolet-Visible Quantitative Analysis
1464
1465 21) ASTM E260-96 (2019) Standard Practice for Packed Column Gas
1466 Chromatography
1467
1468 22) ASTM D4809-18 Standard Test Method for Heat of Combustion of
1469 Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method)
1470
1471 23) ASTM D2099-14 (2023) Standard Test Method for Dynamic Water
1472 Resistance of Shoe Upper Leather by the Maeser Water Penetration Tester
1473
1474 b) Standard Industrial Classification Manual, published by Executive Office of the
1475 President, Office of Management and Budget, Washington, D.C., 1987.
1476
1477 c) American Petroleum Institute Manual of Petroleum Measurement Standards

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Chapter 19.2 Evaporative Loss from Floating-roof Tanks (August 2000).

- d) 40 CFR 60 (July 1, 2024), including:
- 1) Appendix A-1
 - A) Method 1 – Sample and Velocity Transverses for Stationary Sources
 - B) Method 1A – Sample and Velocity Transverses for Stationary Sources with Small Stacks or Ducts
 - C) Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
 - D) Method 2A – Direct Measurement of Gas Volume Through Pipes and Small Ducts
 - E) Method 2C – Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)
 - F) Method 2D – Measurement of Gas Volume Flow Rates in Small Pipes and Ducts
 - 2) Appendix A-2: Method 3 – Gas Analysis for the Determination of Dry Molecular Weights
 - 3) Appendix A-3: Method 4 – Determination of Moisture Content in Stack Gases
 - 4) Appendix A-6: Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
 - 5) Appendix A-7
 - A) Method 21 – Determination of Volatile Organic Compound Leaks
 - B) Method 22 – Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares

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- 1518 C) Method 24 – Determination of Volatile Matter Content, Water
1519 Content, Density, Volume Solids, and Weight Solids of Surface
1520 Coatings
1521
1522 D) Method 24A – Determination of Volatile Matter Content and
1523 Density of Printing Inks and Related Coatings
1524
1525 E) Method 25 – Determination of Total Gaseous Nonmethane
1526 Organic Emissions as Carbon
1527
1528 F) Method 25A – Determination of Total Gaseous Organic
1529 Concentration Using a Flame Ionization Analyzer
1530
1531 6) Appendix A-8: Method 27 – Determination of Vapor Tightness of
1532 Gasoline Delivery Tank Using Pressure-Vacuum Test
1533
1534 e) 40 CFR 61 (July 1, 2024).
1535
1536 f) 40 CFR 50 (July 1, 2024).
1537
1538 g) 40 CFR 51 (July 1, 2024) and 40 CFR 51. Appendix M, Methods 204-204F (July
1539 1, 1999).
1540
1541 h) 40 CFR 52 (July 1, 2024).
1542
1543 i) "A Guideline for Surface Coating Calculation", July 1986, United States
1544 Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016.
1545
1546 j) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by
1547 Paint, Ink and Other Coating" (revised June 1986), United States Environmental
1548 Protection Agency, Washington, D.C., EPA-450/3-84-019.
1549
1550 k) "A Guideline for Graphic Arts Calculations", August 1988, United States
1551 Environmental Protection Agency, Washington, D.C., EPA-340/1-88-003.
1552
1553 l) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate
1554 of Automobile and Light-Duty Truck Topcoat Operations", December 1988,
1555 United States Environmental Protection Agency, Washington, D.C.,
1556 EPA-450/3-88-018.
1557
1558 m) "Control of Volatile Organic Emissions from Manufacturing of Synthesized

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- 1559 Pharmaceutical Products", December 1978, United States Environmental
1560 Protection Agency, Washington, D.C., EPA-450/2-78-029.
1561
- 1562 n) "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and
1563 Vapor Collection Systems", December 1978, Appendix B, United States
1564 Environmental Protection Agency, Washington, D.C., EPA-450/2-78-051.
1565
- 1566 o) "Control of Volatile Organic Compound Emissions from Large Petroleum Dry
1567 Cleaners", September 1982, United States Environmental Protection Agency,
1568 Washington, D.C., EPA-450/3-82-009.
1569
- 1570 p) "APTI Course SI417 Controlling Volatile Organic Compound Emissions from
1571 Leaking Process Equipment", 1982, United States Environmental Protection
1572 Agency, Washington, D.C., EPA-450/2-82-015.
1573
- 1574 q) "Portable Instrument User's Manual for Monitoring VOC Sources", June 1986,
1575 United States Environmental Protection Agency, Washington, D.C.,
1576 EPA-340/1-86-015.
1577
- 1578 r) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks
1579 of VOC and VHAP", October 1988, United States Environmental Protection
1580 Agency, Washington, D.C., EPA-450/3-88-010.
1581
- 1582 s) "Petroleum Refinery Enforcement Manual", March 1980, United States
1583 Environmental Protection Agency, Washington, D.C., EPA-340/1-80-008.
1584
- 1585 t) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline
1586 Marketing Operations: Appendix D", 1980, United States Environmental
1587 Protection Agency, Washington, D.C., EPA-340/1-80-012.
1588
- 1589 u) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals:
1590 Appendix A", December 1977, United States Environmental Protection Agency,
1591 Washington, D.C., EPA-450/2-77-026.
1592
- 1593 v) "Technical Guidance – Stage II Vapor Recovery Systems for Control of Vehicle
1594 Refueling Emissions at Gasoline Dispensing Facilities", November 1991, United
1595 States Environmental Protection Agency, Washington, D.C., EPA-450/3-91-022b.
1596
- 1597 w) California Air Resources Board, Compliance Division. Compliance Assistance
1598 Program: Gasoline Marketing and Distribution: Gasoline Facilities Phase I & II
1599 (October 1988, rev. November 1993) (CARB Manual).

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- x) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 309-91, Determination of Static Volatile Emissions (February 1993).
- y) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 312-91, Determination of Percent Monomer in Polyester Resins (April 1996).
- z) "Guidelines for Determining Capture Efficiency", January 1995, Office of Air Quality Planning and Standards, United States Environmental Protection Agency, Research Triangle Park NC.
- aa) Memorandum "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions", February 1995, John S. Seitz, Director, Office of Air Quality Planning and Standards, United States Environmental Protection Agency.
- bb) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations", September 2008, United States Environmental Protection Agency, Washington, D.C., EPA-453/R-08-002.
- cc) 40 CFR 63, Subpart PPPP, Appendix A (July 1, 2024).
- dd) 46 CFR subchapter Q (October 1, 2024).
- ee) 46 CFR subchapter T (October 1, 2024).
- ff) Petroleum Equipment Institute, "Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP300-09 (2009).
- gg) Perry's Chemical Engineer's Handbook, 9th edition (2018), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.
- hh) CRC Handbook of Chemistry and Physics (2024), Chemical Rubber Publishing Company, Taylor & Francis, 2385 Executive Center Drive, Suite 320, Boca Raton, Florida 33431 (800) 634-7064.

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- ii) Lange's Handbook of Chemistry, John A. Dean, ed. (1998), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.
- jj) The Vapor Pressure of Pure Substances; Boublik, T., V. Fried, and E. Hala (1973), Elsevier Scientific Publishing Company, 521 Fifth Avenue 7th Floor, New York, New York 10175 (212) 309-8100
- (Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.113 Monitoring for Negligibly Reactive Compounds

The requirements of 35 Ill. Adm. Code 215.109, which allows the Agency to require testing and monitoring for negligibly reactive compound as a precondition to exempting them from the definition of "volatile organic compound", applies to owners and operators of sources subject to this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.114 Compliance with Permit Conditions

A person must not violate any terms or conditions of a permit reflecting the requirements of this Part, operate any source except in compliance with its permit, or violate any other applicable requirements.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS**Section 218.119 Applicability for VOL**

- a) Section 218.120 applies to all storage containers of VOL with a maximum true vapor pressure of 0.5 psia or greater in any stationary tank, reservoir, or other container of 151 cubic meters (40,000 gal) capacity or greater, except:
- 1) Vessels with a capacity greater than or equal to 40,000 gallons storing a liquid with a maximum true pressure of less than 0.5 psia;
 - 2) Vessels of coke oven by-product plants;

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- 1681
1682 3) Pressure vessels designed to operate in excess of 29.4 psia and without
1683 emissions to the atmosphere;
1684
1685 4) Vessels permanently attached to mobile vehicles such as trucks, rail cars,
1686 barges, or ships;
1687
1688 5) Vessels storing petroleum liquids; or
1689
1690 6) Vessels used to store beverage alcohol.
1691
1692 b) Vessels with storage capacity less than 40,000 gallons must comply with Section
1693 218.129(f).
1694

1695 (Source: Amended at 50 Ill. Reg. _____, effective
1696 _____)
1697

Section 218.120 Control Requirements for Storage Containers of VOL

- 1700 a) Every owner or operator storing VOL in a vessel of 40,000 gallons or greater with
1701 a maximum true vapor pressure equal to 0.75 psia but less than 11.1 psia must
1702 reduce VOM emissions from storage tanks, reservoirs, or other containers as
1703 follows:
1704
1705 1) Each fixed roof tank must be equipped with an internal floating roof that
1706 meets the following specifications or that is equipped with a vapor control
1707 system that meets the specifications in subsection (a)(4):
1708
1709 A) The internal floating roof must rest or float on the liquid surface
1710 (but not necessarily in complete contact with it) inside a storage
1711 vessel that has a fixed roof. The internal floating roof must be
1712 floating on the liquid surface at all times, except during initial fill
1713 and when the storage vessel is completely emptied and
1714 subsequently refilled. When the roof is resting on the leg supports,
1715 the process of filling, emptying, or refilling must be continuous
1716 and must be accomplished as rapidly as possible.
1717
1718 B) Each internal floating roof must be equipped with one of the
1719 following closure devices between the wall of the storage vessel
1720 and the edge of the internal floating roof:
1721

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- i) A liquid-mounted seal, which is a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank;
- ii) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous; or
- iii) A mechanical shoe seal, which is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- C) Each opening in a noncontact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.
- D) Each opening in the internal floating roof, except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains, must be equipped with a cover or lid which must be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid must be equipped with a gasket. Covers on each access hatch and automatic gauge float well must be bolted except when they are in use.
- E) Automatic bleeder vents must be equipped with a gasket and closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.
- F) Rim space vents must be equipped with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
- G) Each penetration of the internal floating roof for sampling must be a sample well. The sample well must have a slit fabric cover that

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covers at least 90% of the opening.

- H) Each penetration of the internal floating roof that allows for passage of a ladder must have a gasketed sliding cover.
- 2) During the next scheduled tank cleaning or before March 15, 2004, whichever comes first, each internal floating roof tank must meet the specifications in subsections (a)(1)(A) through (H).
- 3) Each external floating roof tank must meet the following specifications:
- A) Each external floating roof must be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device must consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal.
- i) Except under Section 218.127(b)(4), the primary seal must completely cover the annular space between the edge of the floating roof and tank wall and must be either a liquid mounted seal or a shoe seal.
- ii) The secondary seal must completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except as allowed in Section 218.127(b)(4).
- iii) The tank must be equipped with the closure device after the next scheduled tank cleaning but by March 15, 2004.
- B) Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof must provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof must be equipped with a gasketed cover, seal, or lid maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. Automatic bleeder vents must be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Rim vents must be set to open when the roof is being floated off the roof leg supports or at the manufacturer's

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recommended setting. Automatic bleeder vents and rim space vents must be gasketed. Each emergency roof drain must be provided with a slotted membrane fabric cover that covers at least 90% of the area of the opening.

- C) The roof must be floating on the liquid at all times (i.e., off the roof leg supports) except when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports must be continuous and accomplished as rapidly as possible.

- 4) A closed vent system and control device must meet the following specifications:

- A) The closed vent system must be designed to collect all VOM vapors and gases discharged from the storage vessel and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined by the methods in 40 CFR 60.485(c), incorporated by reference at Section 218.112(d).
- B) The control device must be designed and operated to reduce inlet VOM emissions by 95% or greater. If a flare is used as the control device, it must meet the specifications in the general control device requirements of 40 CFR 60.18, incorporated by reference at Section 218.112(d).

- 5) An alternative emission control plan equivalent to the requirements of subsection (a)(1), (a)(2), (a)(3), or (a)(4) that has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.

- b) The owner or operator of each storage vessel with a design capacity of at least 40,000 gallons which contains VOL that, as stored, has a maximum true vapor pressure greater than or equal to 11.1 psia must equip each storage vessel with a closed vent system and control device as specified in subsection (a)(4).
- c) Despite subsection (b), where an owner or operator can demonstrate that the control device installed on a storage vessel on or before December 31, 1992, was designed to reduce inlet VOM emissions by at least 90% but less than 95%, the control device must be operated to reduce inlet VOM emissions by at least 90%.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.121 Storage Containers of VPL

A person must not cause or allow the storage of any volatile petroleum liquid (VPL) with a vapor pressure of 10.34 kPa (1.5 psia) or greater at 294.3 °K (70 °F) or any gaseous organic material in any stationary tank, reservoir, or other container of more than 151 cubic meters (40,000 gal) capacity unless the tank, reservoir, or other container:

- a) Is a pressure tank capable of withstanding the vapor pressure of the liquid or the pressure of the gas to prevent vapor or gas loss to the atmosphere at all times; or
- b) Is designed and equipped with one of the following vapor loss control devices:
 - 1) A floating roof which rests on the surface of the VPL and is equipped with a closure seal or seals between the roof edge and the tank wall. The floating roof must not be permitted if the VPL has a vapor pressure of 86.19 kPa (12.5 psia) or greater at 294.3 °K (70 °F). A person must not cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to the tanks, except during sampling or maintenance operations.
 - 2) A vapor recovery system consisting of:
 - A) A vapor gathering system capable of collecting 85% or more of the uncontrolled VOM that would be otherwise emitted to the atmosphere; and
 - B) A vapor disposal system capable of processing VOM to prevent its emission to the atmosphere. A person must not cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to a tank, reservoir, or other container except during sampling.
 - 3) Other equipment or means of equal efficiency approved by the Agency under 35 Ill. Adm. Code 201 and processed consistent with Section 218.108.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

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Section 218.122 Loading Operations

- a) A person must not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere during the loading of any organic material from the aggregate loading pipes of any loading area with a through-put greater than 151 cubic meters per day (40,000 gal/day) into any railroad tank car, tank truck, or trailer, unless the loading area is equipped with submerged loading pipes or a device that is equally effective in controlling emissions and is approved by the Agency under 35 Ill. Adm. Code 201 and processed consistent with Section 218.108.
- b) A person must not cause or allow the loading of any organic material into any stationary tank with a storage capacity greater than 946 l (250 gal), unless the tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Agency under 35 Ill. Adm. Code 201 and processed consistent with Section 218.108, or unless the tank is a pressure tank under Section 218.121(a) or is fitted with a recovery system under Section 218.121(b)(2).
- c) Exception: If no odor nuisance exists, this Section applies only to loading VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

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Section 218.123 Petroleum Liquid Storage Tanks

- a) Subsection (b) does not apply to any stationary storage tank:
- 1) Equipped before January 1, 1979, with one of the vapor loss control devices in Section 218.121(b), except Section 218.121(b)(1);
 - 2) With a capacity less than 151.42 cubic meters (40,000 gal);
 - 3) With a capacity less than 1,600 cubic meters (422,400 gal) and used to store produced crude oil and condensate before custody transfer;
 - 4) With a capacity less than 1,430 cubic meters (378,000 gal) and used to store produced oil or condensate in crude oil gathering;
 - 5) Subject to new source performance standards for storage vessels of

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petroleum liquid, 40 CFR 60, as regulations promulgated by USEPA under Section 111 of the CAA [42 U.S.C. 7411], as amended. *The provisions of Section 111 of the ~~federal~~ Clean Air Act ... are applicable in this State and are enforceable under the Environmental Protection Act [415 ILCS 5/9.1(b)];*

6) In which VPL is not stored; or

7) Which is a pressure tank under Section 218.121(a).

b) Subject to subsection (a), an owner or operator of a stationary storage tank must not cause or allow the storage of any VPL in the tank unless:

1) The tank is equipped with one of the vapor loss control devices under Section 218.121(b);

2) There are no visible holes, tears, or other defects in the seal or any seal fabric or material of any floating roof;

3) All openings of any floating roof deck, except stub drains, are equipped with covers, lids, or seals so that:

A) The cover, lid, or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank;

B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; and

C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting;

4) Routine inspections of floating roof seals are conducted through roof hatches once every six months;

5) A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than transferring petroleum liquid during the normal operation of the tank, or whenever repairs are made because of any semi-annual inspection or incidence of roof damage or defect; and

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- 6) A record of the results of each inspection conducted under subsection (b)(4) or (b)(5) is maintained.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.124 External Floating Roofs

- a) In addition to meeting the requirements of Section 218.123(b), an owner or operator of a stationary storage tank equipped with an external floating roof must not cause or allow the storage of any VPL in the tank unless:
- 1) The tank has been fitted:
 - A) With a continuous secondary seal extending from the floating roof to the tank wall (rim mounted secondary seal); or
 - B) With any other equipment or means of equal efficiency approved by the Agency under 35 Ill. Adm. Code 201, and processed consistent with Section 218.108;
 - 2) Each seal closure device meets the following requirements:
 - A) The seal is intact and uniformly in place around the circumference of the floating roof between the floating roof and tank wall; and
 - B) The accumulated area of gaps exceeding 0.32 cm (~~1/8~~ in.) in width between the secondary seal and the tank wall does not exceed 21.2 square cm per meter of tank diameter (1.0 square in. per foot of tank diameter). Compliance with this requirement must be determined by:
 - i) Physically measuring the length and width of all gaps around the entire circumference of the secondary seal in each place where a 0.32 cm (0.125 in.) uniform diameter probe passes freely (without forcing or binding against the seal) between the seal and the tank wall; and
 - ii) Summing the area of the individual gaps.
 - 3) Emergency roof drains are provided with slotted membrane fabric covers

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or equivalent covers across at least 90% of the area of the opening;

- 4) Openings are equipped with projections into the tank which remain below the liquid surface at all times;
- 5) Inspections are conducted before May 1 of each year to ensure compliance with subsection (a);
- 6) The secondary seal gap is measured before May 1 of each year and within 30 days after a written request to demonstrate compliance with subsection (2)(B);
- 7) Records of the types of VPL stored, the maximum true vapor pressure of the liquid as stored, the results of the inspections, and the results of the secondary seal gap measurements are maintained and available to the Agency, upon verbal or written request, at any reasonable time for at least two years after the date on which the record was made.
- b) Subsection (a) does not apply to any stationary storage tank equipped with an external floating roof:
- 1) Exempted under Section 218.123(a)(2) through 218.123(a)(6);
- 2) Of welded construction equipped with a metallic type shoe seal and a secondary seal from the top of the shoe seal to the tank wall (shoe-mounted secondary seal);
- 3) Of welded construction equipped with a metallic type shoe seal, a liquid-mounted foam seal, a liquid-mounted liquid-filled-type seal, or other closure device of equivalent control efficiency approved by the Agency in which a petroleum liquid with a true vapor pressure less than 27.6 kPa (4.0 psia) at 294.3 °K (70 °F) is stored; or
- 4) Used to store crude oil with a pour point of 50~~°F~~^{°F} or higher as determined by ASTM Standard D97-17b (2022), incorporated by reference in Section 218.112.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.125 Compliance Dates

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Every owner or operator of a VOL or VPL storage vessel subject to this Subpart must comply with this Subpart by the deadline in the applicable subsection:

- a) Every owner or operator of a VPL storage vessel under Sections 218.121, 218.123, and 218.124 must have complied with Sections 218.121, 218.123, and 218.124 by the date in Section 218.106(a) or (b).¹
- b) Every owner or operator of a VOL storage vessel under Section 218.119 must comply with Section 218.120 as follows:
 - 1) For fixed roof tanks (Section 218.120(a)(1)), by March 15, 1996.
 - 2) For internal floating roof tanks (Section 218.120(a)(2)), either during the next scheduled tank cleaning or by March 15, 2004, whichever comes first;
 - 3) For external floating roof tanks (Section 218.120(a)(3)), either during the next scheduled tank cleaning or by March 15, 2004, whichever comes first; and
 - 4) For closed vent system and control device equipped tanks (Section 218.120(a)(4)), by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.127 Testing VOL Operations

The owner or operator of each storage vessel specified in Section 218.119 must comply with subsection (a), (b), or (c). The applicable subsection for a particular storage vessel depends on the control equipment installed to meet the requirements of this Subpart.

- a) After installing the control equipment necessary for the source to comply with Section 218.120(a)(1) or (2) (permanently affixed roof and internal floating roof), each owner or operator must:
 - 1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) before filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or

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both, the owner or operator must repair the items before filling the storage vessel.

- 2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, there is liquid accumulated on the roof, the seal is detached, or if there are holes or tears in the seal fabric, the owner or operator must repair the items or empty and remove the storage vessel from service within 45 days. If a failure detected during inspections required in this subsection cannot be repaired within 45 days, and if the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(a)(3). The request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the owner or operator will take to ensure that the control equipment will be repaired or the vessel will be emptied within 30 days.
- 3) For vessels equipped with both primary and secondary seals:
- A) Visually inspect the vessel as specified in subsection (a)(4) at least every five years; or
- B) Visually inspect the vessel as specified in subsection (a)(2).
- 4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal, or if the seal fabric or the secondary seal has holes, tears, or other openings in the seal, or if the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or if the slotted membrane has more than 10% open area, the owner or operator must repair the items as necessary so that none of the conditions in this subsection exists before refilling the storage vessel with VOL. Inspections conducted in compliance with this subsection must occur at least once every 10 years for vessels undergoing the annual visual inspection under subsections (a)(2) and (a)(3)(B) and at least once every five years for vessels under subsection (a)(3)(A).

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- 2132
- 2133 5) Notify the Agency in writing at least 30 days before filling or refilling
- 2134 each storage vessel for which an inspection is required by subsections
- 2135 (a)(1) and (a)(4) to afford the Agency the opportunity to have an observer
- 2136 present. If the inspection required by subsection (a)(4) is not planned and
- 2137 the owner or operator could not have known about the inspection 30 days
- 2138 before refilling the tank, the owner or operator must notify the Agency at
- 2139 least seven days before refilling the storage vessel. Notification must be
- 2140 made by telephone immediately followed by written documentation
- 2141 demonstrating why the inspection was unplanned. Alternatively, this
- 2142 notification including the written documentation may be made in writing
- 2143 and sent by express mail so that the Agency receives it at least seven days
- 2144 before refilling.
- 2145
- 2146 ~~b)~~b) The owner or operator of external floating roof tanks must:
- 2147
- 2148 1) Determine the gap areas and maximum gap widths between the primary
- 2149 seal and the wall of the storage vessel and between the secondary seal and
- 2150 the wall of the storage vessel.
- 2151
- 2152 A) Measurements of gaps between the tank wall and the primary seal
- 2153 (seal gaps) must be performed during the hydrostatic testing of the
- 2154 vessel or within 60 days after the initial fill with VOL and then at
- 2155 least once every five years.
- 2156
- 2157 B) Measurements of gaps between the tank wall and the secondary
- 2158 seal must be performed within 60 days after the initial fill with
- 2159 VOL and then at least once per year.
- 2160
- 2161 C) If any source ceases to store VOL for one year or more, subsequent
- 2162 introduction of VOL into the vessel must be considered an initial
- 2163 fill for subsections (b)(1)(A) and (b)(1)(B).
- 2164
- 2165 2) Determine gap widths and areas in the primary and secondary seals
- 2166 individually according to the following procedures:
- 2167
- 2168 A) Measure seal gaps, if any, at one or more floating roof levels when
- 2169 the roof is floating off the roof leg supports;
- 2170
- 2171 B) Measure seal gaps around the entire circumference of the tank in
- 2172 each place where a ~~4/8~~1/8 inch in diameter uniform probe passes

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- 2173 freely (without forcing or binding against seal) between the seal
2174 and the wall of the storage vessel, and measure the circumferential
2175 distance of each location; and
2176
- 2177 C) Determine the total surface area of each gap described in
2178 subsection (b)(2)(B) by using probes of various widths to measure
2179 accurately the actual distance from the tank wall to the seal and
2180 multiplying each width by its respective circumferential distance.
2181
- 2182 3) Add the gap surface area of each gap location for the primary seal and the
2183 secondary seal individually, divide the sum for each by the nominal
2184 diameter of the tank, and compare each ratio to the standards in subsection
2185 (b)(4).
2186
- 2187 4) Make necessary repairs or empty the storage vessel within 45 days after
2188 identification in any inspection for seals not meeting the requirements in
2189 subsections (b)(4)(A) and (B):
2190
- 2191 A) The accumulated area of gaps between the tank wall and the
2192 mechanical shoe or liquid-mounted primary seal must not exceed
2193 10 in. per foot of tank diameter, and the width of any portion of
2194 any gap must not exceed 1.5 in. There must not be holes, tears, or
2195 other openings in the shoe, seal fabric, or seal envelope.
2196
- 2197 B) The secondary seal must meet the following requirements:
2198
- 2199 i) The secondary seal must be installed above the primary seal
2200 so that it completely covers the space between the roof
2201 edge and the tank wall, except under subsection (b)(2)(C).
2202
- 2203 ii) The accumulated area of gaps between the tank wall and
2204 the secondary seal used in combination with a metallic shoe
2205 or liquid-mounted primary seal must not exceed 1.0 in. per
2206 foot of tank diameter, and the width of any portion of any
2207 gap must not exceed 0.5 in. There must not be gaps
2208 between the tank wall and the secondary seal when used
2209 with a vapor mounted primary seal.
2210
- 2211 iii) There must not be holes, tears, or other openings in the seal
2212 or seal fabric.
2213

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- C) If a failure detected during inspections required in Section 218.127(b)(1) cannot be repaired within 45 days and the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(b)(4). The extension request must include a demonstration of unavailability of alternate storage capacity and a specific schedule that will ensure the control equipment will be repaired or the vessel emptied as soon as possible.
- 5) Notify the Agency 30 days before any gap measurements required by subsection (b)(1) to afford the Agency the opportunity to have an observer present.
- 6) Visually inspect the external floating roof, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.
- A) If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator must repair the items as necessary so that none of the conditions in this subsection exist before filling or refilling the storage vessel with VOL.
- B) For all the inspections required by subsection (b)(6), the owner or operator must notify the Agency in writing at least 30 days before filling or refilling each storage vessel to afford the Agency the opportunity to inspect the storage vessel before the refilling of the storage vessel. Notification must be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be sent by express mail so that the Agency receives it at least seven days before the refilling.
- c) The owner or operator of each source equipped with a closed vent system and a flare to meet the requirements of Section 218.120(a)(4) must meet the general control device requirements of 40 CFR 60.18(e) and (f), incorporated by reference at Section 218.112(d).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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2255 _____)
2256 _____)

Section 218.128 Monitoring VOL Operations

- 2259 a) Except under subsection (d), the owner or operator of each storage vessel with a
2260 design capacity of at least 40,000 gallons storing a liquid with a maximum true
2261 vapor pressure that is normally less than 0.75 psia must notify the Agency within
2262 30 days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.
2263
- 2264 b) Available data on the storage temperature may be used to determine the maximum
2265 true vapor pressure.
2266
- 2267 1) For vessels operated above or below ambient temperatures, the maximum
2268 true vapor pressure is calculated based on the highest expected
2269 calendar-month average of the storage temperature. For vessels operated
2270 at ambient temperatures, the maximum true vapor pressure is calculated
2271 based on the maximum local monthly average ambient temperature as
2272 reported by the National Weather Service.
2273
- 2274 2) For other liquids, the vapor pressure must be:
2275
- 2276 A) Determined by ASTM Method D879-83, incorporated by reference
2277 at Section 218.112(a);
2278
- 2279 B) Measured by an appropriate method approved by the Agency and
2280 USEPA; or
2281
- 2282 C) Calculated by an appropriate method approved by the Agency and
2283 USEPA.
2284
- 2285 c) The owner or operator of each vessel storing a mixture of indeterminate or
2286 variable composition are subject to the following:
2287
- 2288 1) Before the initial filling of the vessel, the maximum true vapor pressure
2289 for the range of anticipated liquid compositions to be stored must be
2290 determined using the methods in subsection (b).
2291
- 2292 2) For vessels in which the vapor pressure of the anticipated liquid
2293 composition is at least 0.5 psia but less than 0.75 psia, an initial physical
2294 test of the vapor pressure is required; then a physical test is required at
2295 least once every six months using one of the following methods:

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- 2296
2297 A) ASTM Method D2879-18, incorporated by reference at Section
2298 218.112(a);
2299
2300 B) ASTM Method D323-20a, incorporated by reference at Section
2301 218.112(a); or
2302
2303 C) An appropriate method approved by the Agency.
2304
2305 d) The owner or operator of each vessel equipped with a closed vent system and
2306 control device meeting the specifications of Section 218.120 is exempt from the
2307 requirements of subsections (a) and (b).
2308

2309 (Source: Amended at 50 Ill. Reg. _____, effective
2310 _____)
2311

2312 **Section 218.129 Recordkeeping and Reporting for VOL Operations**
2313

2314 The owner or operator of each storage vessel specified in Section 218.120(a) must maintain
2315 records and furnish reports as required by subsection (a), (b), or (c) as appropriate for the control
2316 equipment installed to meet the requirements of Section 218.120. The owner or operator must
2317 keep copies of all reports and records required by this Section, except for the records required by
2318 subsection (c)(1), for at least three years. The records required by subsection (c)(1) must be kept
2319 for the life of the control equipment.
2320

- 2321 a) After installing control equipment in compliance with Section 218.120(a)(1) or
2322 (2) (fixed roof and internal floating roof), the owner or operator must:
2323
2324 1) Furnish the Agency with a report that describes the control equipment and
2325 certifies that the control equipment meets the specifications of Section
2326 218.120(a)(1) and 218.127(a)(1);
2327
2328 2) Keep a record of each inspection performed as required by Section
2329 218.127(a)(1), (a)(2), (a)(3), and (a)(4). Each record ~~must identify~~ must
2330 identify the storage vessel on which the inspection was performed and
2331 must contain the date the vessel was inspected and the observed condition
2332 of each component of the control equipment (seals, internal floating roof,
2333 and fittings);
2334
2335 3) If any of the conditions in Section 218.127(a)(2) are detected during the
2336 annual visual inspection required by Section 218.127(a)(2), report to the

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Agency within 30 days after the inspection the identity of the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made; and

- 4) After each inspection required by Section 218.127(a)(3) where holes or tears in the seal or seal fabric, defects in the internal floating roof, or other control equipment defects in Section 218.127(a)(3)(B) are discovered, report to the Agency within 30 days after the inspection the identity of the storage vessel and the reason it did not meet the specifications of Section 218.120(a)(1) or (2) or Section 218.127(a), and list each repair made.
- b) After installing control equipment in compliance with Section 218.120(a)(3) (external floating roof), the owner or operator must:
 - 1) Furnish the Agency with a report that describes the control equipment, and certify that the control equipment meets the specifications of Sections 218.120(a)(3) and 218.127(b)(2), (b)(3), and (b)(4);
 - 2) Within 60 days after performing the seal gap measurements required by Section 218.127(b)(1), furnish the Agency with a report that contains:
 - A) The date of measurement;
 - B) The raw data obtained in the measurement; and
 - C) The calculations described in Section 218.127(b)(2) and (b)(3);
 - 3) Maintain records of each gap measurement performed as required by Section 218.127(b). The records must identify the storage vessel in which the measurement was performed and must contain:
 - A) The date of measurement;
 - B) The raw data obtained in the measurement; and
 - C) The calculations described in Section 218.127(b)(2) and (b)(3);
 - 4) After each seal gap measurement that detects gaps exceeding the limitations under Section 218.127(b)(4), submit a report to the Agency within 30 days after the inspection identifying the vessel and containing the information in subsection (b)(2) and the date the vessel was emptied or

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the repairs were made and the date of repair.

- c) After installing control equipment in compliance with Section 218.127(a)(4) or (b)(1) (closed vent system and control device other than a flare), the owner or operator must maintain:
- 1) A copy of the operating plan; and
 - 2) The measured values of the parameters monitored in compliance with Section 218.127(c)(2).
- d) After installing a closed vent system and flare to comply with Section 218.127, the owner or operator must:
- 1) Provide the Agency with a report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6), incorporated by reference at Section 218.112(d), within six months after the initial start-up date;
 - 2) Maintain records of all periods of operation during which the flare pilot flame is absent; and
 - 3) Report semiannually all periods recorded under 40 CFR 60.115b(d)(2), incorporated by reference at Section 218.112(d), in which the pilot flame was absent.
- e) The owner or operator must maintain all records required by this Section, except for the records required by subsection (f), for at least three years. The records required by subsection (f) must be kept for the life of the source.
- f) The owner or operator of each storage vessel specified in Section 218.119 must maintain readily accessible records of the dimension of the storage vessel and an analysis of the capacity of the storage vessel. Each storage vessel with a design capacity less than 40,000 gallons is not subject to this Part, other than the requirement to maintain readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel.
- g) Except under Section 218.128(c) and (d), the owner or operator of each storage vessel subject to Section 218.120 with a design capacity of at least 40,000 gallons storing a liquid with a maximum true vapor pressure at least 0.5 psia but less than 0.75 psia must maintain a record of the VOL storage, the period of storage, and the maximum true vapor pressure of the VOL during the storage period.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section 218.141 Separation Operations

- a) A person must not use any single or multiple compartment effluent water separator which receives effluent water containing 757 l/day (200 gal/day) or more of organic material from any equipment processing, refining, treating, storing, or handling organic material, unless the effluent water separator is equipped with air pollution control equipment capable of reducing by at least 85% the uncontrolled organic material emitted to the atmosphere. However, if no odor nuisance exists, the limitations of this subsection do not apply if the vapor pressure of the organic material is below 17.24 kPa (2.5 psia) at 294.3 °K (70 °F).
- b) Subsection (a) does not apply to water and crude oil separation in the production of Illinois crude oil, if the vapor pressure of the crude oil is less than 34.5 kPa (5 psia).

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.142 Pumps and Compressors

A person must not cause or allow the discharge of more than 32.8 ml (2 cu in.) of VOL with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F) into the atmosphere from any pump or compressor in any 15-minute period at standard conditions.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.143 Vapor Blowdown

A person must not cause or allow the emission of organic material into the atmosphere from any vapor blowdown system or any safety relief valve, except safety relief valves not capable of causing an excessive release, unless the emission is controlled:

- a) To 10 ppm equivalent methane (molecular weight 16.0) or less;

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- b) By combustion in a smokeless flare; or
- c) By other air pollution control equipment approved by the Agency under 35 Ill. Adm. Code 201 and processed under Section 218.108.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.144 Safety Relief Valves

Section 218.143 does not apply to any set of unregulated safety relief valves capable of causing excessive releases if the owner or operator by October 1, 1972, supplied the Agency with:

- a) A historical record of each set (or, if the records were unavailable, of similar sets which, by virtue of operation under similar circumstances, may reasonably have been presumed to have the same or greater frequency of excessive releases) for a three-year period immediately preceding October 1, 1972, indicating:
- 1) Dates on which excessive releases occurred from each set;
 - 2) Duration in minutes of each excessive release; and
 - 3) Quantities in pounds of mercaptans or hydrogen sulfide or both emitted into the atmosphere during each excessive release;
- b) Proof, using the three-year historical records, that no excessive release is likely to occur from any set either alone or in combination with excessive releases from other sets owned or operated by the same person and located within a 10-mile radius from the center point of any set more frequently than three times in any 12-month period;
- c) Accurate maintenance records under subsection (a); and
- d) Proof, at three-year intervals, using the three-year historical records, that ~~these~~the set conforms to subsection (c).

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART E: SOLVENT CLEANING

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Section 218.181 Solvent Cleaning Degreasing Operations

Sections 218.182, 218.183, 218.184, and 218.186 apply to all cold cleaning, open top vapor degreasing, and conveyorized degreasing operations which use VOM.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.182 Cold Cleaning

- a) Operating Procedures: A person must not operate a cold cleaning degreaser unless:
- 1) Waste solvent is stored in covered containers only and disposed of so that only up to 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 2) The cover of the degreaser is closed when parts are not being handled; and
 - 3) Parts are drained until dripping ceases.
- b) Equipment Requirements: A person must not operate a cold cleaning degreaser unless:
- 1) The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover must be designed to be easily operated with one hand or with the mechanical assistance of springs, counter-weights, or a powered system if:
 - A) The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38 °C (100 °F);
 - B) The solvent is agitated; or
 - C) The solvent is heated above ambient room temperature.
 - 2) The degreaser is equipped with a device for draining cleaned parts. The drainage device must be constructed so that parts are enclosed under the cover while draining, unless:
~~A)~~ A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6

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- psi) measured at 38 °C (100 °F); or
- B) An internal drainage device cannot be fitted into the cleaning system, in which case the drainage device may be external.
- 3) The degreaser is equipped with one of the following control devices if the vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38 °C (100 °F) or if the solvent is heated above 50 °C (120 °F) or its boiling point:
- A) A freeboard height of $\frac{7}{10}$ of the inside width of the tank or 91 cm (36 in.), whichever is less; or
- B) Any other equipment or system of equivalent emission control approved by the Agency and processed under Section 218.108. The system may include a water cover, refrigerated chiller, or carbon adsorber.
- 4) A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser; and
- 5) If a solvent spray is used, the degreaser is equipped with a solid fluid stream spray, rather than a fine, atomized, or shower spray.
- c) Material and Control Requirements:
- 1) On and after March 15, 1999, a person must not:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at 20 °C (68 °F) in units greater than five gallons for use in cold cleaning degreasing operations in the area described in Section 218.103.
- B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at 20 °C (68 °F).
- 2) On and after March 15, 2001, a person must not:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) in units greater than five gallons for use in cold cleaning degreasing

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operations in the area described in Section 218.103.

- B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F).
- 3) On and after May 30, 2007, a person must not:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) in units greater than five gallons for use in cold cleaning degreasing operations in the area described in Section 218.103, unless the purchaser provides a copy of a valid State or federal construction or operating permit or a copy of the Federal Register demonstrating that the purchaser is in compliance with subsection (c)(4) or exempt under subsection (f) or (g).
- B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F), unless the person is in compliance with subsection (c)(4) or exempt under subsection (f) or (g).
- 4) Control Requirements:
- A) A person may operate a cold cleaning degreaser using solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) but less than 56 mmHg (1.064 psi) measured at 20 °C (68 °F) ~~if~~ add-on control devices demonstrating at least 95% overall capture and control of emissions are used. The add-on controls may include carbon adsorbers or afterburners.
- B) An equivalent alternative control plan may be used to meet the control requirements of this Section under Section 218.108. Under the material requirements of subsection (c)(3)(B), a solvent with a vapor pressure of 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) must be the basis for assessment of equivalent emissions from any equivalent alternative control plan. If used as an equivalent alternative control plan, an add-on control must demonstrate at least a 95% overall capture and control efficiency. A control plan approved by the Agency is effective only when included in a federally enforceable permit or approved by USEPA as a SIP revision under Section 218.108.

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- 2624
- 2625 C) Add-on controls operating at a source before May 30, 2007, must
- 2626 be tested by August 31, 2007. Add-on controls constructed on or
- 2627 after May 30, 2007, must be tested within 90 days after initial
- 2628 startup. Testing procedures and recordkeeping for add-on controls
- 2629 and equivalent alternative controls subject to subsections (c)(4)(A)
- 2630 and (B) must be performed under Section 218.105(c), (d), (e), and
- 2631 (f).
- 2632
- 2633 d) Recordkeeping and Reporting Requirements. On and after March 15, 1999:
- 2634
- 2635 1) All persons subject to subsections (c)(1)(A), (c)(2)(A), and (c)(3)(A) must
- 2636 maintain records which include for each sale:
- 2637
- 2638 A) The name and address of the solvent purchaser;
- 2639
- 2640 B) The date of sale;
- 2641
- 2642 C) The type of solvent;
- 2643
- 2644 D) The unit volume of solvent;
- 2645
- 2646 E) The total volume of solvent; and
- 2647
- 2648 F) The vapor pressure of the solvent measured in mmHg at 20 °C (68
- 2649 °F).
- 2650
- 2651 2) All persons subject to subsections (c)(1)(B), (c)(2)(B), and (c)(3)(B) must
- 2652 maintain records which include for each purchase:
- 2653
- 2654 A) The name and address of the solvent supplier;
- 2655
- 2656 B) The date of purchase;
- 2657
- 2658 C) The type of solvent;
- 2659
- 2660 D) The vapor pressure of the solvent measured in mmHg at 20 °C (68
- 2661 °F); and
- 2662
- 2663 E) For any mixture of solvents, the vapor pressure of the mixture as
- 2664 used, measured in mmHg at 20 °C (68 °F).

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- 3) All persons subject to subsection (c)(4) must maintain records which include for each purchase:
- A) The name and address of the solvent supplier;
 - B) The date of purchase;
 - C) The type of solvent;
 - D) The unit volume of solvent;
 - E) The total volume of solvent;
 - F) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F); and
 - G) For any mixture of solvents, the vapor pressure of the mixture as used, measured in mmHg at 20 °C (68 °F).
- 4) All persons subject to subsection (c)(4) must maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cold cleaning degreasers and add-on control equipment. At a minimum, these records must include:
- A) Records for periodic inspection of the cold cleaning degreasers and add-on control equipment with date of inspection, individual performing the inspection, and nature of inspection;
 - B) Records for repairing malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM that escaped into the atmosphere because of the incident;
 - C) Control device monitoring and recording data; and
 - D) A daily log of operating time for the control device, monitoring equipment, and all associated degreasers.

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- 2705 5) All persons subject to subsection (c) must notify the Agency at least 30
2706 days before changing the method of compliance between subsection (c)(3)
2707 and (c)(4). The notification must include a demonstration of compliance
2708 with the newly applicable subsection.
2709
- 2710 6) All persons subject to subsection (b) or (c) must notify the Agency of any
2711 violation of subsection (b) or (c) by sending a description of the violation
2712 and copies of records documenting the violations to the Agency within 30
2713 days after the violation occurs.
2714
- 2715 e) All records required by subsection (d) must be retained for three years and must
2716 be made available to the Agency upon request.
2717
- 2718 f) The cleaning of electronic components as defined in 35 Ill. Adm. Code 211.1885
2719 is exempt from the requirements of subsection (c).
2720
- 2721 g) Any cold cleaning taking place in a Detrex cold batch degreaser Model
2722 #2D-CC-SPL Size 24-4-10, or substantial equivalent, including automated
2723 loading of parts and totally enclosed operation (excluding loading or unloading)
2724 and permitted by the Agency, is exempt from the requirements of subsection (c).
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2726 (Source: Amended at 50 Ill. Reg. _____, effective
2727 _____)
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Section 218.183 Open Top Vapor Degreasing

- 2729
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- 2731 a) Operating Requirements: A person must not operate an open top vapor degreaser
2732 unless:
2733
- 2734 1) The cover of the degreaser is closed when workloads are not being
2735 processed through the degreaser;
2736
- 2737 2) Solvent carry out emissions are minimized by:
2738
- 2739 A) Racking parts to allow complete drainage;
2740
- 2741 B) Moving parts in and out of the degreaser at less than 3.3 m/min (11
2742 ft/min);
2743
- 2744 C) Holding the parts in the vapor zone until condensation ceases;
2745

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- 2746 D) Tipping out any pools of solvent on the cleaned parts before
2747 removal from the vapor zone; and
2748
2749 E) Allowing parts to dry within the degreaser until visually dry;
2750
2751 3) Porous or absorbent materials, such as cloth, leather, wood, or rope are not
2752 degreased;
2753
2754 4) Less than half of the degreaser's open top area is occupied with a
2755 workload;
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2757 5) The degreaser is loaded so that the vapor level will not drop more than 10
2758 cm (4 in.) when the workload is removed from the vapor zone;
2759
2760 6) Spraying is done below the vapor level only;
2761
2762 7) Solvent leaks are repaired immediately;
2763
2764 8) Waste solvent is stored in covered containers only and disposed of so that
2765 only up to 20% of the waste solvent (by weight) is allowed to evaporate
2766 into the atmosphere;
2767
2768 9) Water is not visually detectable in solvent exiting from the water
2769 separator; and
2770
2771 10) Exhaust ventilation does not exceed 20 cubic meters per minute per square
2772 meter (65 cubic feet per minute per square foot) of degreaser open area,
2773 unless necessary to meet the requirements of the Occupational Safety and
2774 Health Act (OSHA) [29 U.S.C. 651 et seq.].
2775
2776 b) Equipment Requirements: A person must not operate an open top vapor
2777 degreaser unless:
2778
2779 1) The degreaser is equipped with a cover designed to open and close easily
2780 without disturbing the vapor zone;
2781
2782 2) The degreaser is equipped with the following switches:
2783
2784 A) One which shuts off the sump heat if the amount of condenser
2785 coolant is not sufficient to maintain the designed vapor level;
2786

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- 2787 B) One which shuts off the spray pump if the vapor level drops more
2788 than 10 cm (4 in.) below the bottom condenser coil; and
2789
2790 C) One which shuts off the sump heat source when the vapor level
2791 exceeds the design level;
2792
2793 3) A permanent conspicuous label summarizing the operating procedure is
2794 affixed to the degreaser;
2795
2796 4) The degreaser is equipped with one of the following devices:
2797
2798 A) A freeboard height of ~~3/4~~ $\frac{3}{4}$ of the inside width of the degreaser
2799 tank or 91 cm (36 in.), whichever is less; and if the degreaser
2800 opening is greater than 1 square meter (10.8 square feet), a
2801 powered or mechanically assisted cover; or
2802
2803 B) Any other equipment or system of equivalent emission control
2804 approved by the Agency and processed under Section 218.108. The
2805 equipment or system may include a refrigerated chiller, an
2806 enclosed design, or a carbon adsorption system.
2807

2808 (Source: Amended at 50 Ill. Reg. , effective
2809)
2810

Section 218.184 Conveyorized Degreasing

- 2811
2812
2813 a) Operating Requirements: A person must not operate a conveyorized degreaser
2814 unless:
2815
2816 1) Exhaust ventilation exceeding 20 cubic meters per minute per square
2817 meter (65 cubic feet per minute per square foot) of area of loading and
2818 unloading opening is not used, unless necessary to meet the requirements
2819 of OSHA [29 U.S.C. 651 et seq.];
2820
2821 2) Solvent carryout emissions are minimized by:
2822
2823 A) Racking parts for best drainage; and
2824
2825 B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11
2826 ft/min);
2827

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- 2828 3) Waste solvent is stored in covered containers only and disposed of so that
2829 only up to 20% of the waste solvent (by weight) is allowed to evaporate
2830 into the atmosphere;
2831
- 2832 4) Solvent leaks are repaired immediately;
2833
- 2834 5) Water is not visually detectable in solvent exiting from the water
2835 separator; and
2836
- 2837 6) Downtime covers are placed over entrances and exits of conveyORIZED
2838 degreasers immediately after the conveyors and exhausts are shut down
2839 and not removed until just before start-up.
2840
- 2841 b) Equipment Requirements: A person must not operate a conveyORIZED degreaser
2842 unless:
2843
- 2844 1) The degreaser is equipped with a drying tunnel, rotating (tumbling) basket,
2845 or other equipment sufficient to prevent cleaned parts from carrying out
2846 solvent liquid or vapor;
2847
- 2848 2) The degreaser is equipped with the following switches:
2849
- 2850 A) One which shuts off the sump heat source if the amount of
2851 condenser coolant is not sufficient to maintain the designed vapor
2852 level;
2853
- 2854 B) One which shuts off the spray pump or the conveyor if the vapor
2855 level drops more than 10 cm (4 in.) below the bottom condenser
2856 coil; and
2857
- 2858 C) One which shuts off the sump heat source when the vapor level
2859 exceeds the design level.
2860
- 2861 3) The degreaser is equipped with openings for entrances and exits that
2862 silhouette workloads so that the average clearance between the parts and
2863 the edge of the degreaser opening is less than 10 cm (4 in.) or less than
2864 10% of the width of the opening;
2865
- 2866 4) The degreaser is equipped with downtime covers for closing off entrances
2867 and exits when the degreaser is shut down; and
2868

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- 5) The degreaser is equipped with one of the following control devices, if the air/vapor interface is larger than 2.0 square meters (21.6 square feet):

- A) A carbon adsorption system with ventilation of at least 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when downtime covers are open, and exhausting less than 25 ppm of solvent by volume averaged over a complete adsorption cycle; or
- B) Any other equipment or system of equivalent emission control approved by the Agency and processed under Section 218.108. The equipment or system may include a refrigerated chiller.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.186 Test Methods

The following test methods must be used to demonstrate compliance with this Subpart:

- a) Vapor pressures must be determined using the procedure in Section 218.110.
- b) Exhaust ventilation rates must be determined using the procedures in Section 218.105(f)(3).
- c) The performance of control devices must be determined using the procedures in Section 218.105(f).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.187 Other Industrial Solvent Cleaning Operations

- a) Applicability. On and after January 1, 2012:
- 1) Except under subsection (a)(2), the requirements of this Section apply to all cleaning operations that use organic materials at sources that emit a total of 226.8 kg per calendar month (500 lbs per calendar month) or more of VOM, without air pollution control equipment, from cleaning operations at the source other than cleaning operations identified in subsection (a)(2). For this Section, "cleaning operation" means the

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process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning at sources with emission units;

2) Despite subsection (a)(1):

- A) The following cleaning operations are exempt from subsections (b), (c), (d), (e), (f), and (g):
- i) Cleaning operations subject to Sections 218.182, 218.183, or 218.184;
 - ii) Janitorial cleaning;
 - iii) Stripping of cured coatings, inks, or adhesives; and
 - iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning.
- B) Cleaning operations for emission units within the following categories are exempt from subsections (b), (c), (d), (e), (f), and (g):
- i) Flexible package printing;
 - ii) Lithographic printing;
 - iii) Letterpress printing;
 - iv) Flat wood paneling coating;
 - v) Large appliance coating;
 - vi) Metal furniture coating;
 - vii) Paper, film, and foil coating;

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- 2951 viii) Wood furniture coating;
2952
2953 ix) Plastic parts coating;
2954
2955 x) Miscellaneous metal parts coating;
2956
2957 xi) Fiberglass boat manufacturing;
2958
2959 xii) Miscellaneous industrial adhesives; and
2960
2961 xiii) Auto and light-duty truck assembly coating.
2962
2963 C) The following cleaning operations are exempt from subsections
2964 (b), (c), (f), and (g):
2965
2966 i) Cleaning of solar cells, laser hardware, scientific
2967 instruments, and high-precision optics;
2968
2969 ii) Cleaning conducted as part of performance laboratory tests
2970 on coatings, adhesives, or inks; research and development
2971 operations; or laboratory tests in quality assurance
2972 laboratories;
2973
2974 iii) Cleaning of paper-based gaskets and clutch assemblies
2975 where rubber is bonded to metal using an adhesive;
2976
2977 iv) Cleaning of cotton swabs to remove cottonseed oil before
2978 cleaning of high-precision optics;
2979
2980 v) Cleaning of medical device and pharmaceutical
2981 manufacturing operations if the facility uses no more than
2982 5.7 l (1.5 gal) per day of solvents for that cleaning;
2983
2984 vi) Cleaning of adhesive application equipment used for thin
2985 metal laminating;
2986
2987 vii) Cleaning of electronic or electrical cables;
2988
2989 viii) Touch-up cleaning performed on printed circuit boards
2990 where surface mounted devices have already been attached;
2991

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- 2992 ix) Cleaning of coating and adhesive application processes
2993 used to manufacture transdermal drug delivery products
2994 using no more than 3 gal per day of ethyl acetate;
2995
- 2996 x) Cleaning of application equipment used to apply coatings
2997 on satellites and radiation effect coatings;
2998
- 2999 xi) Cleaning of application equipment used to apply
3000 solvent-borne fluoropolymer coatings;
3001
- 3002 xii) Cleaning of ultraviolet or electron beam adhesive
3003 application;
3004
- 3005 xiii) Cleaning of sterilization indicating ink application
3006 equipment if the facility uses no more than 5.7 l (1.5 gal)
3007 per day of solvents for that cleaning;
3008
- 3009 xiv) Cleaning of metering rollers, dampening rollers, and
3010 printing plates;
3011
- 3012 xv) Cleaning of numismatic dies;
3013
- 3014 xvi) Cleaning operations associated with digital printing;
3015
- 3016 xvii) Cleaning with aerosol products if the facility uses only up
3017 to 4.7 l (1.25 gal) per day of those products;
3018
- 3019 xviii) Cleaning of plastic-based or vinyl-based substrates for use
3020 in the screen printing process when using UV curable ink
3021 and coating systems;
3022
- 3023 xix) Cleaning conducted as part of performance tests on
3024 coatings, adhesives, or inks that are in research and
3025 development and that are not yet commercially used for the
3026 applications for which they are being tested. This
3027 exemption is limited to using up to a total of 90.9 l (24 gal)
3028 of cleaning solvent per calendar month and 416.3 l (110
3029 gal) per calendar year for such cleaning.
3030
- 3031 b) Material and Control Requirements. An owner or operator of a source subject to
3032 this Section, other than manufacturers of coatings, inks, adhesives, or resins, must

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not perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in subsection (b)(1), (b)(2), or (b)(3). An owner or operator of a source that manufactures coatings, inks, adhesives, or resins must not perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in at least one of the following subsections: (b)(1), (b)(2), (b)(3), (b)(4), or (b)(5).

- 1) The VOM content of the as-used cleaning solutions does not exceed the following emissions limitations:

~~A)~~ A) Product cleaning during manufacturing process or surface preparation for coating, adhesive, or ink application:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing	0.80	6.7

- B) Repair and maintenance cleaning:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing: tools, equipment, and machinery	0.80	6.7
iii)	Medical device and pharmaceutical manufacturing: general work surfaces	0.60	5.0

- C) Cleaning of ink application equipment:

		kg/l	lb/gal
i)	Rotogravure printing that does not print flexible packaging	0.10	0.83

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ii)	Screen printing, including screen reclamation activities	0.50	4.2
iii)	Ultraviolet ink and electron beam ink application equipment, except screen printing	0.65	5.4
iv)	Flexographic printing that does not print flexible packaging	0.10	0.83

		kg/l	lb/gal
D)	Cleaning of equipment used in the manufacture of coatings, inks, adhesives, or resins	0.20	1.67

		kg/ l	lb/gal
E)	All other cleaning operations not subject to a specific limitation in subsections (b)(1)(A) through (b)(1)(D)	0.050	0.42

- 2) The VOM composite vapor pressure of each as-used cleaning solution used does not exceed 8.0 mmHg measured at 20 °C (68 °F);
- 3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85% overall, or for sources that manufacture coatings, inks, adhesives, or resins, an afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 80% overall and has a 90% efficiency. The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if the device reduces VOM emissions from the subject cleaning operation in ~~compliance~~accordance with the applicable capture and control requirements of this subsection (b)(3), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device, and the plan is approved by the Agency and USEPA within federally enforceable permit conditions;
- 4) For sources that manufacture coatings, inks, adhesives, or resins, the owner or operator complies with the following work practices:

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- A) Equipment being cleaned is maintained leak-free;
 - B) VOM-containing cleaning materials are drained from the cleaned equipment upon completing cleaning;
 - C) VOM-containing cleaning materials, including waste solvent, are stored or disposed of so that they will not cause or allow evaporation into the atmosphere; and
 - D) VOM-containing cleaning materials are stored in closed containers;
- 5) Sources that manufacture coatings, inks, adhesives, or resins may use solvents that do not comply with subsection (b)(1) or (b)(2) if all the following requirements are met:
- A) Only up to 228 l (60 gal) of fresh solvent is used per calendar month. Solvent that is reused or recycled, either onsite or offsite, for further use in equipment cleaning or in the manufacture of coatings, inks, adhesives, or resins, must not be included in this limit;
 - B) Solvents, including cleanup solvents, are collected and stored in closed containers; and
 - C) Records are maintained in compliance with subsection (e)(6).
- c) The owner or operator of a subject source must demonstrate compliance with this Section by using the applicable test methods and procedures in subsection (g) and by complying with the recordkeeping and reporting requirements in subsection (e).
- ~~d)~~ d) Operating Requirements. The owner or operator of a source subject to this Section must comply with the following for each subject cleaning operation. These requirements are in addition to work practices in subsections (b)(4) and (b)(5), as applicable:
- 1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;

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- 3126 2) Minimize air circulation around the cleaning operation;
3127
3128 3) Dispose of all used cleaning solutions, cleaning towels, and applicators
3129 used to apply cleaning solvents in closed containers;
3130
3131 4) Use equipment practices that minimize emissions;
3132
3133 5) When using cleaning solvent for wipe cleaning, sources that manufacture
3134 coatings, inks, adhesives, or resins must:
3135
3136 A) Cover open containers used to store spent or fresh organic
3137 compounds used for cleanup or coating, ink, adhesive, or resin
3138 removal; and
3139
3140 B) Cover open containers used to store or dispose of cloth or paper
3141 impregnated with organic compounds that are used for cleanup or
3142 coating, ink, adhesive, or resin removal.
3143
3144 e) Recordkeeping and Reporting Requirements
3145
3146 1) The owner or operator of a source exempt from this Section because of the
3147 criteria in subsection (a)(1) must comply with the following:
3148
3149 A) By January 1, 2012, or upon initial start-up of the source,
3150 whichever is later, submit a certification to the Agency that
3151 includes:
3152
3153 i) A declaration that the source is exempt from this Section
3154 because of the criteria in subsection (a)(1); and
3155
3156 ii) Calculations that demonstrate that combined emissions of
3157 VOM from cleaning operations at the source, other than
3158 cleaning operations in subsection (a)(2), never equal or
3159 exceed 226.8 kg/month (500 lbs/month) without air
3160 pollution control equipment. An emission adjustment
3161 factor of 0.50 must be used to calculate emissions from
3162 used shop towels if the VOM composite vapor pressure of
3163 each associated cleaning solution is demonstrated to be less
3164 than 10 mmHg at 20 °C (68 °F) and the used shop towels
3165 are kept in closed containers. For cleaning solutions with
3166 VOM composite vapor pressures of at least 10 mmHG

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measured at 20 °C (68 °F) and for shop towels that are not kept in closed containers, an emission adjustment factor must not be used.

- B) On and after January 1, 2012, collect and record the following information each month for each cleaning operation, other than cleaning operations in subsection (a)(2):
- i) The name and identification of each VOM-containing cleaning solution as applied in each cleaning operation;
 - ii) The VOM content of each cleaning solution as applied in each cleaning operation;
 - iii) The weight of VOM per volume and the volume of each as-used cleaning solution; and
 - iv) The total monthly VOM emissions from cleaning operations at the source.
- C) Notify the Agency of any record that shows when the combined emissions of VOM from cleaning operations at the source, other than cleaning operations in subsection (a)(2), equal or exceed 226.8 kg/month (500 lbs/month) without air pollution control equipment within 30 days after the event occurs.

2) All sources subject to this Section must:

- A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
- i) A declaration that all subject cleaning operations are in compliance with the requirements of this Section;
 - ii) Identification of each subject cleaning operation and each VOM-containing cleaning solution used as of the date of certification in the operation;

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- 3206 iii) If complying with the emissions control system
3207 requirement, what type of emissions control system will be
3208 used;
3209
3210 iv) Initial documentation that each subject cleaning operation
3211 will comply with the applicable limitation, including copies
3212 of manufacturer's specifications, test results (if any),
3213 formulation data, and calculations;
3214
3215 v) Identification of the methods that will be used to
3216 demonstrate continuing compliance with the applicable
3217 limitations;
3218
3219 vi) A description of the practices and procedures that the
3220 source will follow to ensure compliance with subsection (d)
3221 and, if applicable, subsection (b)(4); and
3222
3223 vii) A description of each cleaning operation exempt under
3224 subsection (a)(2), if any, and a listing of the emission units
3225 on which the exempt cleaning operation is performed.
3226
3227 B) At least 30 calendar days before changing the method of
3228 compliance between subsections (b)(1), (b)(2), (b)(4), or (b)(5) and
3229 subsection (b)(3), notify the Agency in writing of the change. The
3230 notification must include a demonstration of compliance with the
3231 newly applicable subsection;
3232
3233 3) All sources complying with this Section under subsection (b)(1) must
3234 collect and record the following information for each cleaning solution
3235 used:
3236
3237 A) For each cleaning solution that is prepared at the source with
3238 automatic equipment:
3239
3240 i) The name and identification of each cleaning solution;
3241
3242 ii) The VOM content of each cleaning solvent in the cleaning
3243 solution;
3244
3245 iii) Each change to the setting of the automatic equipment,
3246 with date, time, description of changes in the cleaning

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solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
- v) The VOM content of the as-used cleaning solution, with supporting calculations; and
- vi) A calibration log for the automatic equipment, detailing periodic checks.

B) For each batch of cleaning solution that is not prepared at the source with automatic equipment:

- i) The name and identification of each cleaning solution;
- ii) Date, time of preparation, and each subsequent modification of the batch;
- iii) The VOM content of each cleaning solvent in the cleaning solution;
- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in compliance with methods in Section 218.105(a).

4) All sources complying with this Section under subsection (b)(2) must collect and record the following information for each cleaning solution used:

- A) The name and identification of each cleaning solution;

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- B) Date, time of preparation, and each subsequent modification of the batch;
- C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in compliance with the applicable methods and procedures in Section 218.110;
- D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
- E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in compliance with the applicable methods and procedures in Section 218.110.
- 3303 5) All sources complying with this Section under subsection (b)(3) must
3304 comply with the following:
3305
- 3306 A) By January 1, 2012, or upon initial start-up of the source,
3307 whichever is later, and upon initial start-up of a new emissions
3308 control system, include in the certification required by subsection
3309 (e)(3) a declaration that the monitoring equipment required under
3310 subsection (f) has been properly installed and calibrated according
3311 to manufacturer's specifications.
3312
- 3313 B) If testing of an emissions control system is conducted under
3314 subsection (g), the owner or operator must, within 90 days after
3315 conducting the testing, submit a copy of all test results to the
3316 Agency and must submit a certification to the Agency that
3317 includes:
3318
- 3319 i) A declaration that all tests and calculations necessary to
3320 demonstrate compliance with subsection (b)(3) have been
3321 properly performed;
3322
- 3323 ii) A statement whether the subject cleaning operation is or is
3324 not in compliance with subsection (b)(3); and
3325
- 3326 iii) The operating parameters of the emissions control system
3327 during testing, as monitored in compliance with subsection
3328 (f).

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- C) Collect and record daily the following information for each cleaning operation subject to subsection (b)(3):
 - i) Emissions control system monitoring data in compliance with subsection (f), as applicable;
 - ii) A log of operating time for the emissions control system, monitoring equipment, and the associated cleaning equipment; and
 - iii) A maintenance log for the emissions control system and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
 - D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records must include:
 - i) Records for periodic inspection of the cleaning equipment and emissions control system equipment with date of inspection, individual performing the inspection, and nature of inspection; and
 - ii) Records for repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM released into the atmosphere because of the incident;
 - 6) All sources complying with this Section under subsection (b)(5) must collect and record monthly the following information for each cleaning operation subject to subsection (b)(5):
 - A) The name, identification, and volume of each VOM-containing cleaning solution as applied in each cleaning operation;
 - B) The volume of each fresh cleaning solvent used for cleaning coating, ink, adhesive, or resin manufacturing equipment; and

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- 3370 C) The volume of cleaning solvent recovered for either offsite or
3371 onsite reuse or recycling for further use in the cleaning of coating,
3372 ink, adhesive, or resin manufacturing equipment.
3373
- 3374 7) The owner or operator of a source with cleaning operations that fall under
3375 one or more of the exclusions in subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or
3376 (a)(2)(C)(xvii), including sources exempt from this Section under
3377 subsection (a)(1), must:
3378
- 3379 A) By January 1, 2012, or upon initial start-up of the source,
3380 whichever is later, submit a certification to the Agency that
3381 includes a declaration that the source has cleaning operations that
3382 fall under at least one of the exclusions in subsection (a)(2)(C)(v),
3383 (a)(2)(C)(xiii), or (a)(2)(C)(xvii), and a statement identifying each
3384 cleaning operation and the exclusion applicable to each cleaning
3385 operation;
3386
- 3387 B) Collect and record the name, identification, and volume of each
3388 cleaning solvent as applied each day in each cleaning operation
3389 that falls under at least one of the exclusions in subsection
3390 (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii); and
3391
- 3392 C) Notify the Agency in writing if the amount of cleaning solvent
3393 used in the cleaning of medical device and pharmaceutical
3394 manufacturing operations or of sterilization indicating ink
3395 application equipment at the source ever exceeds 5.7 l (1.5 gal) per
3396 day, or if the amount of aerosol cleaning products used at the
3397 source ever exceeds 4.7 l (1.25 gal) per day, within 30 days after
3398 the exceedance occurs.
3399
- 3400 8) The owner or operator of a source with cleaning operations that fall under
3401 at least one of the exclusions in subsection (a)(2)(C)(xviii) or
3402 (a)(2)(C)(xix), including sources exempt from this Section under
3403 subsection (a)(1), must:
3404
- 3405 A) By January 1, 2012, or upon initial start-up of the source,
3406 whichever is later, submit a certification to the Agency that
3407 includes a declaration that the source has cleaning operations that
3408 fall under at least one of the exclusions in subsection
3409 (a)(2)(C)(xviii) or (a)(2)(C)(xix), and a statement identifying each

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- cleaning operation and the exclusion applicable to each cleaning operation;
- B) Collect and record the name, identification, volume, and VOM content of each cleaning solvent as applied each month in each cleaning operation that falls under at least one of the exclusions in subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix);
- C) For cleaning operations that fall under the exclusion in subsection (a)(2)(C)(xviii), collect and record each month information demonstrating that the exempt cleaning solvent is being used only to clean plastic-based or vinyl-based substrates used in the screen printing process when using UV curable ink and coating systems; and
- D) For cleaning operations that fall under the exclusion in subsection (a)(2)(C)(xix), collect and record each month information demonstrating that the exempt cleaning solvent is being used only for production line performance testing of coatings that are in research and development and are not yet commercially used for the applications for which they are being tested.
- 9) All sources subject to subsections (b) and (d) must notify the Agency of any violation of subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days after the violation occurs.
- 10) All records required by this subsection (e) must be retained by the source for at least three years and must be made available to the Agency upon request.
- f) Monitoring Requirements
- 1) If an afterburner is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) must:
- A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3 °C or 5 °F on the emissions control system in compliance with Section 218.105(d)(2) and in compliance with the manufacturer's specifications. Monitoring

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must be performed at all times when the emissions control system is operating; and

- B) Install, calibrate, operate, and maintain in compliance with manufacturer's specifications a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer with at least the same accuracy as the temperature monitor.

- 2) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) must use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment must monitor the VOM concentration of each carbon adsorption bed or the exhaust of the bed next in sequence to be desorbed.

- 3) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) must install, maintain, calibrate, and operate the monitoring equipment under the owner's or operator's plan approved by the Agency and USEPA under subsection (b)(3).

g) Testing Requirements

- 1) Testing to demonstrate compliance with this Section must be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. The testing must be conducted at the expense of the owner or operator, and the owner or operator must notify the Agency in writing 30 days before conducting the testing to allow the Agency to be present during the testing;

- 2) Testing to demonstrate compliance with the VOM content limitations in subsection (b)(1) and to determine the VOM content of cleaning solvents and cleaning solutions must be conducted as follows:

- A) The applicable test methods and procedures in Section 218.105(a) must be used; however, Method 24, incorporated by reference in Section 218.112, must be used to demonstrate compliance; or

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- 3490 B) The manufacturer's specifications for VOM content for cleaning
3491 solvents may be used if the manufacturer's specifications are based
3492 on results of tests of the VOM content conducted in compliance
3493 with methods in Section 218.105(a) of this Part; however, Method
3494 24 must be used to determine compliance. If there is any
3495 inconsistency between a Method 24 test and the manufacturer's
3496 specifications, the Method 24 test must govern;
3497
- 3498 3) Testing to determine the VOM composite partial vapor pressure of
3499 cleaning solvents, cleaning solvent concentrates, and as-used cleaning
3500 solutions must be conducted in compliance with the applicable methods
3501 and procedures in Section 218.110;
3502
- 3503 4) For afterburners and carbon adsorbers, the methods and procedures of
3504 Section 218.105(d) through (f) must be used for testing to demonstrate
3505 compliance with subsection (b)(3), as follows:
3506
- 3507 A) To select the sampling sites, Method 1 or 1A, as appropriate, at 40
3508 CFR 60.Appendix A-1, incorporated by reference in Section
3509 218.112;
3510
- 3511 B) To determine the volumetric flow rate of the exhaust stream,
3512 Method 2, 2A, 2C, or 2D, as appropriate, at 40 CFR 60.Appendix
3513 A-1, incorporated by reference in Section 218.112;
3514
- 3515 C) To determine the VOM concentration of the exhaust stream
3516 entering and exiting the emissions control system, Method 25 or
3517 25A, as appropriate, at 40 CFR 60.Appendix A-7, incorporated by
3518 reference in Section 218.112. For thermal and catalytic
3519 afterburners, Method 25 must be used except under the following
3520 circumstances, in which case Method 25A must be used:
3521
- 3522 i) The allowable outlet concentration of VOM from the
3523 emissions control system is less than 50 ppmv, as carbon;
3524
- 3525 ii) The VOM concentration at the inlet of the emissions
3526 control system and the required level of control result in
3527 exhaust concentrations of VOM of 50 ppmv or less, as
3528 carbon; or
3529

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iii) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest must be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25.

D) During testing, the cleaning equipment must be operated at representative operating conditions and flow rates;

5) An owner or operator using an emissions control system other than an afterburner or carbon adsorber must conduct testing to demonstrate compliance with subsection (b)(3) under the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions under subsection (b)(3).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART F: COATING OPERATIONS

Section 218.204 Emission Limitations

Except under Sections 218.205, 218.207, 218.208, 218.212, 218.215, and 218.216, an owner or operator of a coating line must not apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in subsections (a), (c), (g), (h), (l), (p), and (q), compliance with the emission limitations in this Section is required on and after March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the

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definition of VOM should be treated as water to calculate the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.211(c) except where noted. (Note: The equation in Section 218.206 must be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades, and cross-line averaging.)

- a) Auto
mobil
e or
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These limitations must not apply to materials supplied in containers with a net volume of 0.47 l (16 oz) or less or a net weight of 0.45 kg (1 lb) or less:

- 1) Electrodeposition primer (EDP) operations. For this subsection (a)(1), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.

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		kg VOM/l coating solids applied	lb VOM/gal coating solids applied
	A) When solids turnover ratio (R_T) is at least 0.160	0.084	(0.7)
	B) When R_T is at least 0.040 and less than 0.160	$0.084 \times 350^{0.160-R_T}$	$(0.084 \times 350^{0.160-R_T} \times 8.34)$
2)	Primer surfacer operations	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited
	A) VOM content limitation	1.44	(12.0)
	B) Compliance with the limitation in subsection (a)(2)(A) must be based on the daily-weighted average from an entire primer surfacer operation. Compliance must be demonstrated in compliance with the topcoat protocol in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements in Section 218.211(f). Testing to demonstrate compliance must be performed in compliance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.		
3)	Topcoat operations	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited
	A) VOM content limitation	1.44	(12.0)
	B) Compliance with the limitation in subsection (a)(3)(A) must be based on the daily-weighted average from an entire topcoat		

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operation. Compliance must be demonstrated in compliance with the topcoat protocol in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements in Section 218.211(f). Testing to demonstrate compliance must be performed in compliance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the topcoat limitation.

4)	Combined primer surfacer and topcoat operations	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited
A)	VOM content limitation	1.44	(12.0)
B)	Compliance with the limitation in subsection (a)(4)(A) must be based on the daily-weighted average from the combined primer surfacer and topcoat operations. Compliance must be demonstrated in compliance with the topcoat protocol in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements in Section 218.211(f). Testing to demonstrate compliance must be performed in compliance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the combined primer surfacer and topcoat limitation.		
5)	Final repair coat operations	kg/l coatings	lb/gal coatings
A)	VOM content limitation	0.58	(4.8)
B)	Compliance with the limitation in subsection (a)(5)(A) must be on an occurrence-weighted average basis, calculated in compliance with the equation below, in which clear coatings must have a weighting factor of 2 and all other coatings must have a weighting factor of 1. For this subsection (a)(5)(B), an "occurrence" is the application of the combination of coatings that constitute a final repair coat for a single automobile or		

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light-duty truck. Section 218.205 does not apply to the final repair coat limitation.

$$VOM_{tot} = \frac{2VOM_{cc} + \sum_{i=1}^n VOM_i}{n+2}$$

where:

- VOM_{tot} = Total VOM content of all coatings, as applied, on an occurrence weighted average basis, and used to determine compliance with this subsection (a)(5).
- i = Subscript denoting a specific coating applied.
- n = Total number of coatings applied in the final repair operation, other than clear coatings.
- VOM_{cc} = The VOM content, as applied, of the clear coat used in the final repair operation.
- VOM_i = The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

- 6) Miscellaneous Materials. For reactive adhesives subject to this subsection (a)(6), compliance must be demonstrated in compliance with the methods and procedures in 40 CFR 63, Subpart PPPP, Appendix A, incorporated by reference in Section 218.112.

		kg/l	lb/gal
A)	Glass bonding primer	0.90	(7.51)
B)	Adhesive	0.25	(2.09)
C)	Cavity wax	0.65	(5.42)
D)	Trunk sealer	0.65	(5.42)
E)	Deadener	0.65	(5.42)

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F)	Gasket/gasket sealing material	0.20	(1.67)
G)	Underbody coating	0.65	(5.42)
H)	Trunk interior coating	0.65	(5.42)
I)	Bedliner	0.20	(1.67)
J)	Weatherstrip adhesive	0.75	(6.26)
K)	Lubricating wax/compound	0.70	(5.84)

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b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish		
A)	Sheet basecoat	0.26	(2.2)
B)	Overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.25	(2.1)
3)	Interior body spray coat		
A)	Two piece	0.44	(3.7)
B)	Three piece	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)

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c) Paper Coating

4)

1) The owner or operator must comply with either the limit in weight of VOM per weight of solids applied or weight of VOM per weights of coatings applied:

	kg VOM/kg (lb VOM/lb) solids applied	kg VOM/kg (lb VOM/lb) coatings applied

A) Pressure sensitive tape and label surface coatings	0.20 (0.20)	(0.067) (0.067)

B) All other paper coatings	0.40 (0.40)	(0.08) (0.08)

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2) The paper coating limitation in this subsection (c) does not apply to any owner or operator of any paper coating line on which flexographic, rotogravure, lithographic, or letterpress printing is performed if the paper coating line complies with the applicable emissions limitations in Subpart H. In addition, screen printing on paper is not regulated as paper coating but is regulated under Subpart TT. The paper coating limitation also does not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.

d) Coil Coating	kg/l	lb/gal
	0.20	(1.7)

e) Fabric Coating	0.28	(2.3)

f) Vinyl Coating	0.28	(2.3)

g) Metal Furniture Coating		

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1)	The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied:	<u>kg/l</u> <u>(lb/gal)</u> <u>(coatings</u> <u>applied)</u>	<u>kg/l</u> <u>(lb/gal)</u> <u>solids applied</u>
		~~kg/l~~ ~~(lb/gal)~~ ~~(coatings~~ ~~applied)~~	~~kg/l~~ ~~(lb/gal)~~ ~~solids applied~~
A)	General, One-Component	0.275 (2.3)	0.40 (3.3)
B)	General, Multi-Component		
i)	Air dried	0.340 (2.8)	0.55 (4.5)
ii)	Baked	0.275 (2.3)	0.40 (3.3)
C)	Extreme High Gloss		
i)	Air dried	0.340 (2.8)	0.55 (4.5)
ii)	Baked	0.360 (3.0)	0.61 (5.1)
D)	Extreme Performance		
i)	Air dried	0.420 (3.5)	0.80 (6.7)

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E)	ii) Baked	0.360 (3.0)	0.61 (5.1)
	Heat Resistant		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
F)	ii) Baked	0.360 (3.0)	0.61 (5.1)
	Metallic		
		0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)

- 2) The limitations in this subsection (g) do not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications using hand-held aerosol cans.

h) Large Appliance Coating



- 1) The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied:
- | | |
|---------------------------|----------------|
| kg/l | kg/l |
| (lb/gal) | (lb/gal) |
| <u>(coatings applied)</u> | solids applied |

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A)	General, One Component	0.275 (2.3)	0.40 (3.3)
B)	General, Multi-Component		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.275 (2.3)	0.40 (3.3)
C)	Extreme High Gloss		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
D)	Extreme Performance		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
E)	Heat Resistant		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
F)	Metallic	0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		
	i) Air dried	0.420	0.80

POLLUTION CONTROL BOARD
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(3.5) (6.7)

ii) Baked 0.360 0.61
(3.0) (5.1)

3621
3622 2) The limitations in this subsection (h) do not apply to the use of
3623 quick-drying lacquers to repair scratches and nicks that occur during
3624 assembly, if the volume of coating does not exceed 0.95 l (1 quart) in any
3625 one rolling eight-hour period. These limitations also do not apply to stencil
3626 coatings, safety-indicating coatings, solid-film lubricants,
3627 electric-insulating and thermal-conducting coatings, touch-up and repair
3628 coatings, or coating applications using hand-held aerosol cans.
3629

i) Mag kg/1 lb/gal
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0.20 (1.7)

j) Miscellaneous Metal Parts
and Products Coating



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On and after May 1, 2012, the limitations in Section 218.204(q) apply to this category of coating.

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
2)	Extreme performance topcoat (air dried)	0.42	(3.5)
3)	Final repair coat (air dried)	0.42	(3.5)
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (q).		

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- l) Wood
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- l) Wood furniture sealers and topcoats must comply with one of the limitations in subsections (l)(1)(A) through (E):

		kg VOM/ kg solids	lb VOM/ lb solids
A)	Topcoat	0.8	(0.8)
B)	Sealers and topcoats with the following limits:		
i)	Sealer other than acid-cured alkyd amino vinyl sealer	1.9	(1.9)
ii)	Topcoat other than acid-cured alkyd amino conversion varnish topcoat	1.8	(1.8)
iii)	Acid-cured alkyd amino vinyl sealer	2.3	(2.3)

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iv) Acid-cured alkyd amino 2.0 (2.0)
conversion varnish topcoat

- C) Meet the provisions of Section 218.215 to use an averaging approach;
- D) Achieve a reduction in emissions equivalent to the requirements of subsection (l)(1)(A) or (B), as calculated using Section 218.216; or
- E) Use a combination of the methods in subsections (l)(1)(A) through (D).

2) Other wood furniture coating limitations:

	kg/l	lb/gal
A) Opaque stain	0.56	(4.7)
B) Non-topcoat pigmented coat	0.60	(5.0)
C) Repair coat	0.67	(5.6)
D) Semi-transparent stain	0.79	(6.6)
E) Wash coat	0.73	(6.1)

3) Other wood furniture coating requirements:

- A) A source subject to the limitations of subsection (l)(1) or (l)(2) and using at least one wood furniture coating spray booth must not use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.
- B) Any source subject to the limitations of subsection (l)(1) or (l)(2) must comply with Section 218.217.
- C) Any source subject to the limitations of subsection (l)(1)(A) or (B) and using one or more continuous coaters must, for each continuous coater, use an initial coating which complies with the limitations of subsection (l)(1)(A) or (B). The viscosity of the coating in each reservoir must always be at least the viscosity of

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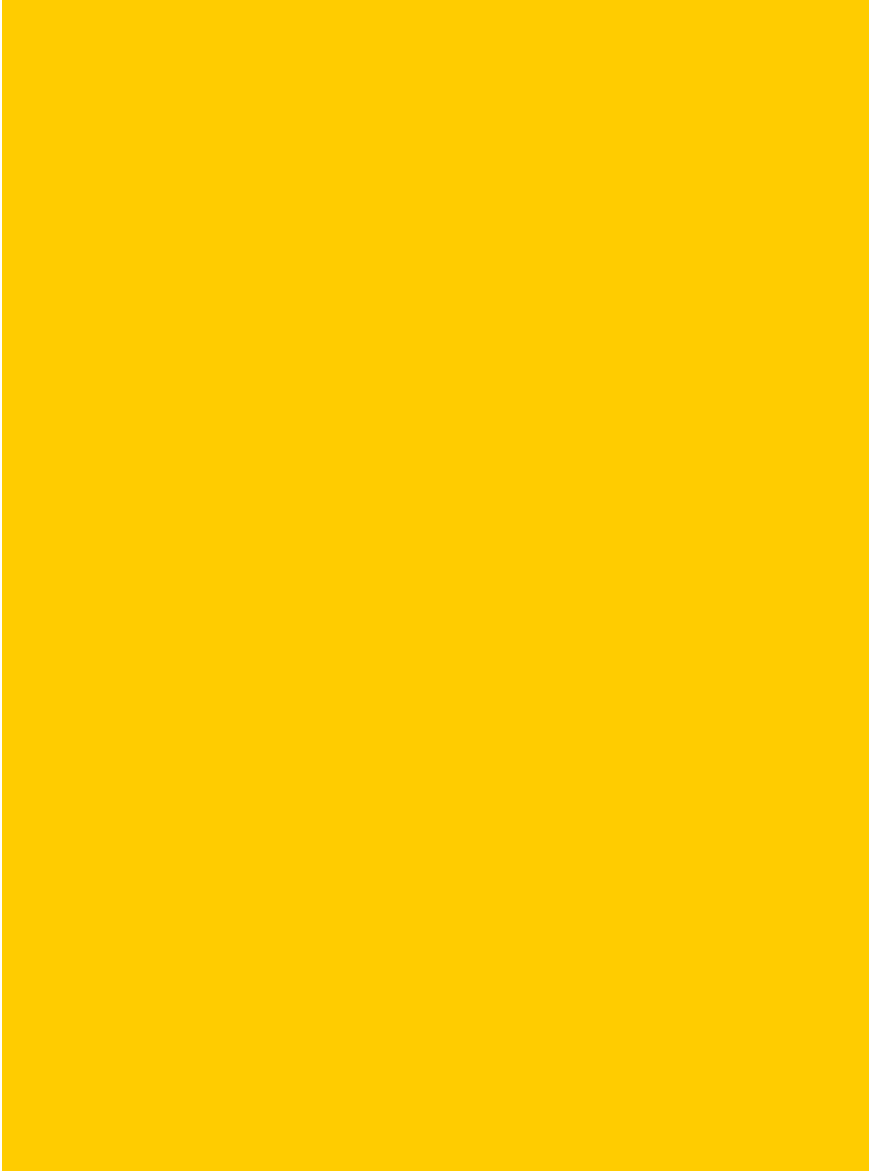
the initial coating in the reservoir. The owner or operator must:

- i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;
- ii) Collect and record the reservoir viscosity and the amount and weight of VOM per weight of solids of coating and solvent each time coating or solvent is added; and
- iii) Maintain these records at the source for three years.

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
2)	Extreme performance top-coat (air dried)	0.42	(3.5)
3)	Final repair coat (air dried)	0.42	(3.5)
4)	High-temperature aluminum coating	0.72	(6.0)
5)	All other coatings	0.36	(3.0)

- n) Plastic Parts Coating: Automotive/Tra nsport ation

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On and after May 1, 2012, the limitations in Section 218.204(q) apply to this category of coating.

- o) Plasti
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On and after May 1, 2012, the limitations in Section 218.204(q) apply to this category of coating.

- p) Flat Wood Paneling Coatings. Flat wood paneling coatings must comply with one of the following limitations:
- 1) 0.25 kg VOM/l of coatings (2.1 lb VOM/gal coatings); or
 - 2) 0.35 kg VOM/l solids (2.9 lb VOM/gal solids).

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3699 q) Miscellaneous Metal Parts and Products Coatings and Plastic Parts and Products
3700 Coatings. The owner or operator of a miscellaneous metal or plastic parts coating
3701 line must comply with the limitations in this subsection. The limitations in this
3702 subsection do not apply to primer sealants and ejection cartridge sealants used in
3703 ammunition manufacturing, aerosol coating products, or powder coatings. Primer
3704 sealants and ejection cartridge sealants are regulated under Subpart TT.
3705

3706 ~~1~~ 1) Metal Parts and Products. For this subsection (q)(1), "corrosion resistant
3707 basecoat" means a water-borne epoxy coating applied via an
3708 electrodeposition process to a metal surface before spray coating to
3709 enhance corrosion resistance. The limitations in this subsection (q)(1) do
3710 not apply to stencil coats, safety-indicating coatings, solid-film lubricants,
3711 electric-insulating and thermal-conducting coatings, magnetic data storage
3712 disk coatings, and plastic extruded onto metal parts to form a coating. The
3713 limitations in Section 218.219 apply to these coatings unless specifically
3714 excluded in Section 218.219. The owner or operator must comply with
3715 either the limit in weight of VOM per volume of coatings applied or
3716 weight of VOM per volume of solids applied.
3717

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	General one component coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)

B) General multi-component
coating

i)	Air dried	0.34 (2.8)	0.54 (4.52)
ii)	Baked	0.28	0.40

**POLLUTION CONTROL BOARD
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		(2.3)	(3.35)	
C)	Camouflage coating	0.42 (3.5)	0.80 (6.67)	
D)	Electric-insulating varnish	0.42 (3.5)	0.80 (6.67)	
E)	Etching filler	0.42 (3.5)	0.80 (6.67)	
F)	Extreme high-gloss coating			
	i) Air dried	0.42 (3.5)	0.80 (6.67)	
	ii) Baked	0.36 (3.0)	0.61 (5.06)	
G)	Extreme performance coating			
	i) Air dried	0.42 (3.5)	0.80 (6.67)	
	ii) Baked	0.36 (3.0)	0.61 (5.06)	
H)	Heat-resistant coating			
	i) Air dried	0.42 (3.5)	0.80 (6.67)	
	ii) Baked	0.36 (3.0)	0.61 (5.06)	
I)	High performance architectural coating	0.42 (3.5)	0.80 (6.67)	
J)	High temperature coating	0.42 (3.5)	0.80 (6.67)	
K)	Metallic coating			

**POLLUTION CONTROL BOARD
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	i)	Air dried	0.42 (3.5)	0.80 (6.67)	
	ii)	Baked	0.36 (3.0)	0.61 (5.06)	
L)	Military specification coating				
	i)	Air dried	0.34 (2.8)	0.54 (4.52)	
	ii)	Baked	0.28 (2.3)	0.40 (3.35)	
M)	Mold-seal coating		0.42 (3.5)	0.80 (6.67)	
N)	Pan backing coating		0.42 (3.5)	0.80 (6.67)	
O)	Prefabricated architectural coating: multi-component				
	i)	Air dried	0.42 (3.5)	0.80 (6.67)	
	ii)	Baked	0.28 (2.3)	0.40 (3.35)	
P)	Prefabricated architectural coating: one-component				
	i)	Air dried	0.42 (3.5)	0.80 (6.67)	
	ii)	Baked	0.28 (2.3)	0.40 (3.35)	
Q)	Pre-treatment coating		0.42	0.80	

**POLLUTION CONTROL BOARD
NOTICE OF PROPOSED AMENDMENTS**

		(3.5)	(6.67)	
R)	Repair coats and touch-up coatings			
	i) Air dried	0.42 (3.5)		
	ii) Baked	0.36 (3.01)		
S)	Silicone release coating	0.42 (3.5)	0.80 (6.67)	
T)	Solar-absorbent coating			
	i) Air dried	0.42 (3.5)	0.80 (6.67)	
	ii) Baked	0.36 (3.0)	0.61 (5.06)	
U)	Vacuum-metalizing coating	0.42 (3.5)	0.80 (6.67)	
V)	Drum coating, new, exterior	0.34 (2.8)	0.54 (4.52)	
W)	Drum coating, new, interior	0.42 (3.5)	0.80 (6.67)	
X)	Drum coating, reconditioned, exterior	0.42 (3.5)	0.80 (6.67)	
Y)	Drum coating, reconditioned, interior	0.50 (4.2)	1.17 (9.78)	

**POLLUTION CONTROL BOARD
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Z) Ammunition Sealants

i)	Air dried	0.42 (3.5)	0.80 (6.67)	
ii)	Baked	0.36 ~~(3.06)~~ <u>(3.0)</u>	~~(3.0)~~ <u>0.61</u> ~~0.61~~ <u>(5.06)</u>	

AA) Electrical switchgear
compartment coatings

i)	Air dried	0.42 (3.5)	0.80 (6.67)	
ii)	Baked	0.36 <u>(3.0)</u>	~~(3.0)~~ <u>0.61</u> <u>(5.06)</u>	

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- 2) Plastic Parts and Products: Miscellaneous. For this subsection (q)(2), miscellaneous plastic parts and products are plastic parts and products that are not subject to subsection (q)(3), (q)(4), (q)(5), or (q)(6). The limitations in subsection (q)(2) do not apply to touch-up and repair coatings; stencil coats applied on clear or transparent substrates; clear or translucent coatings; coatings applied at a paint manufacturing facility while conducting performance tests on the coatings; any individual coating category used in volumes less than 189.2 l (50 gal) in any one calendar year, if the total usage of all coatings does not exceed 756.9 l (200 gal) per calendar year per source and substitute compliant coatings are not available; reflective coatings applied to highway cones; mask coatings that are less than 0.5 mm thick (dried) if the area coated is less than 25 square inches; electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings; and heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices if the total usage of all coatings does not exceed 378.4 l (100 gal) per calendar year per source. The limitations in Section 218.219 apply to these coatings unless specifically excluded in Section 218.219. The owner or

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operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	General one component coating	0.28 (2.3)	0.40 (3.35)
B)	General multi-component	0.42 (3.5)	0.80 (6.67)
C)	Electric dissipating coatings and shock-free coatings	0.80 (6.7)	8.96 (74.7)
D)	Extreme performance (2-pack coatings)	0.42 (3.5)	0.80 (6.67)
E)	Metallic coating	0.42 (3.5)	0.80 (6.67)
F)	Military specification coating		
	i) 1-pack coatings	0.28 (2.3)	0.54 (4.52)
	ii) 2-pack coatings	0.42 (3.5)	0.80 (6.67)
G)	Mold-seal coating	0.76 (6.3)	5.24 (43.7)
H)	Multi-colored coating	0.68 (5.7)	3.04 (25.3)
I)	Optical coating	0.80 (6.7)	8.96 (74.7)
J)	Vacuum-metalizing coating	0.80 (6.7)	8.96 (74.7)

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- 3) Plastic Parts and Products: Automotive/Transportation. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

	kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A) High bake coatings – interior and exterior parts		
i) Flexible primer	0.54 (4.5)	1.39 (11.58)
ii) Non-flexible primer	0.42 (3.5)	0.80 (6.67)
iii) Basecoats	0.52 (4.3)	1.24 (10.34)
iv) Clear coat	0.48 (4.0)	1.05 (8.76)
v) Non-basecoat/clear coat	0.52 (4.3)	1.24 (10.34)
B) Low bake/air dried coatings – exterior parts		
i) Primers	0.58 (4.8)	1.66 (13.80)
ii) Basecoat	0.60 (5.0)	1.87 (15.59)
iii) Clear coats	0.54 (4.5)	1.39 (11.58)
iv) Non-basecoat/clear coat	0.60 (5.0)	1.87 (15.59)

**POLLUTION CONTROL BOARD
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- C) Low bake/air dried coatings – interior parts
- | | | |
|---------------|---------------|----------------|
| i) Color coat | 0.38
(3.2) | 0.67
(5.66) |
| ii) Primer | 0.42
(3.5) | 0.80
(6.67) |
- D) Touchup and repair coatings
- | | | |
|--|---------------|-----------------|
| | 0.62
(5.2) | 2.13
(17.72) |
|--|---------------|-----------------|
- E) Specialty
- | | | |
|---------------------------------|---------------|----------------|
| i) Vacuum metallizing basecoats | 0.66
(5.5) | 2.62
(21.8) |
| ii) Vacuum metallizing topcoats | 0.77
(6.4) | 6.06
(49.1) |
- F) Red, yellow, and black coatings: Subject coating lines must comply with a limit determined by multiplying the appropriate limit in subsections (q)(3)(A) through (q)(3)(C) by 1.15.
- 4) Plastic Parts and Products: Business Machine. The limitations of this subsection (q)(4) do not apply to vacuum metallizing coatings, gloss reducers, texture topcoats, adhesion primers, electrostatic preparation coatings, stencil coats, and resist coats other than plating resist coats. The limitations in Section 218.219 apply to these coatings unless specifically excluded. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.
- | | kg/l (lb/gal)
coatings | kg/l
(lb/gal)
solids |
|------------|---------------------------|----------------------------|
| A) Primers | 0.35
(2.9) | 0.57
(4.80) |

**POLLUTION CONTROL BOARD
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B)	Topcoat	0.35 (2.9)	0.57 (4.80)
C)	Color coat (texture coat)	0.28 (2.3)	0.40 (4.80)
D)	Color coat (non-texture coat)	0.28 (2.3)	0.40 (4.80)
E)	Texture coats other than color texture coats	0.35 (2.9)	0.57 (4.80)
F)	EMI/RFI shielding coatings	0.48 (4.0)	1.05 (8.76)
G)	Fog coat	0.26 (2.2)	0.38 (3.14)
H)	Touchup and repair	0.35	0.57

- 5) Pleasure Craft Surface Coatings: The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	Extreme high gloss coating – topcoat	0.60 (5.0)	1.88 (15.6)
B)	High gloss coating – topcoat	0.42 (3.5)	0.80 (6.7)
C)	Pretreatment wash primer	0.78 (6.5)	6.67 (55.6)
D)	Finish primer/surfacer	0.42 (3.5)	0.80 (6.7)

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E)	High build primer/surfacer	0.34 (2.8)	0.55 (4.6)
F)	Aluminum substrate antifoulant coating	0.56 (4.7)	1.53 (12.8)
G)	Other substrate antifoulant coating	<u>0.40</u> <u>(3.3)</u>	<u>0.73</u> <u>(5.8)</u>
H)	Antifouling Sealer/Tie Coat	0.42 (3.5)	0.80 (6.7)
I)	All other pleasure craft surface coatings for metal or plastic	0.42 (3.5)	0.80 (6.7)

6) Motor Vehicle Materials

kg/l (lb/gal)
coatings

A)	Cavity wax	0.65 (5.42)
B)	Sealer	0.65 (5.42)
C)	Deadener	0.65 (5.42)
D)	Gasket/gasket sealing material	0.20 (1.67)
E)	Underbody coating	0.65 (5.42)

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**POLLUTION CONTROL BOARD
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F)	Trunk interior coating	0.65 (5.42)
G)	Bedliner	0.20 (1.67)
H)	Lubricating wax/compound	0.70 (5.84)

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.205 Daily-Weighted Average Limitations

An owner or operator of a coating line subject to the limitations of Section 218.204 and complying by means of this Section must not operate the subject coating line unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), (h), or (i) (depending upon the category of coating) through the applicable coating analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.211(d):

- a) An owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a)(1), (a)(5), (a)(6), (d), (e), (f), (i), or (p) must not apply coatings during any day on any coating line whose daily-weighted average VOM content exceeds the emission limitation to which the coatings are subject.

b)

An owner or operator of a can coating line subject to the limitations of Section 218.204(b) must not operate the subject coating line using a coating with a VOM content exceeding the limitations in Section 218.204(b) unless all the following requirements are met:

- 1) An alternative daily emission limitation for the can coating operation, i.e., for all of the can coating lines at the source, must be determined according to subsection (b)(2). Actual daily emissions must never exceed the alternative daily emission limitation and must be calculated using the following equation.

$$E_d = \sum_{i=1}^n V_i C_i$$

Schwartz, J p [JS11] April 29, 2026
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where:

- E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied in the can coating operation, i.e., all can coating lines at the source;
- V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM);
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) must be determined for the can coating operation, i.e., for all the can coating lines at the source, on a daily basis as follows:

$$A_d = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

where:

- A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of surface coatings applied in the can coating operation;

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- C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM);
- D_i = The density of VOM in each coating applied. To calculate A_d , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM);
- L_i = The VOM emission limitation for each surface coating applied as specified in Section 218.204(b) in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM).

- c) An owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) must not apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (c)(1) or (c)(2) are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(k) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used: or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(k), during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- d) An owner or operator of a wood furniture coating line subject to the limitations of Section 218.204(l)(2) must not apply coatings to wood furniture on the subject coating line unless the requirements of subsection (d)(1) or subsection (d)(2) are met.

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- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(l)(2) during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(l)(2) during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- e) An owner or operator of an existing diesel-electric locomotive coating line in Cook County subject to the limitations of Section 218.204(m) must not apply coatings to diesel-electric locomotives on the subject coating line unless the requirements of subsection (e)(1) or (e)(2) are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(m) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m), during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- ~~2~~
- f) An owner or operator of a metal furniture coating line subject to the limitations of Section 218.204(g) must not apply coatings on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) are met:

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- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(g) during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(g), during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- g) An owner or operator of a large appliance coating line subject to the limitations of Section 218.204(h) must not apply coatings on the subject coating line unless the requirements of subsection (g)(1) or (g)(~~1~~²) are met:
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h), during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- h) On and after May 1, 2011, an owner or operator of a paper coating line subject to the limitations of Section 218.204(c) must not apply coatings on the subject coating line unless the requirements in subsection (h)(1) or (h)(2) are met:
- 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(c) during the same day (e.g., all coatings used on the line are subject to 0.40 kg/kg solids (0.08 kg/kg coatings)), the daily-weighted

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average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or

- 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(c) during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- i) On and after May 1, 2012, an owner or operator of a miscellaneous metal parts and products coating line, plastic parts or products coating line, pleasure craft surface coating line, or motor vehicle materials coating line subject to the limitations of Section 218.204(q) must not apply coatings on the subject coating line unless the requirements of subsection (i)(1) or (i)(2) are met:
 - 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(q) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content must not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(q), during the same day, the owner or operator must have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.206 Solids Basis Calculation

Limitations in terms of kg (lbs) of VOM emissions per l (gal) of solids as applied at each coating applicator must be determined by the following equation:

$$S = \frac{C}{1 + (C/D)}$$

(Add)
 $S = 1 - \frac{C}{(C/D)}$

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where:

~~S = The limitation on VOM emissions in terms of kg VOM/l (lbs VOM/gal) of solids;~~

S = The limitation on VOM emissions in terms of kg VOM/l (lbs VOM/gal) of solids;

C = The limitation on VOM emissions in terms of kg/l (lbs/gal) of coating (excluding water and any compounds which are specifically excluded from the definition of VOM) in Section 218.204;

D = The density of VOM in the coating. To calculate S, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM).

~~C = The limitation on VOM emissions in terms of kg/l (lbs/gal) of coating (excluding water and any compounds which are specifically excluded from the definition of VOM) in Section 218.204;~~

~~D = The density of VOM in the coating. To calculate S, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM)~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.207 Alternative Emission Limitations

- a) Any owner or operator of a coating line subject to Section 218.204, except coating lines subject to Section 218.204(q)(6), may comply with this Section rather than with Section 218.204 if the requirements in subsections (a)(1) through (a)(3) are met. A capture system and control device which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), or (j) may be used as an alternative to compliance with Section 218.204 only if the alternative is approved by the Agency and approved by USEPA as a SIP revision.
- 1) A capture system and control device are operated at all times the coating line is in operation;
 - 2) The owner or operator demonstrates compliance with subsections (c), (d), (e), (f), (g), (h), (i), or (j) (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures in Section 218.105 and the recordkeeping and reporting requirements in Section 218.211(e); and

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- 3986 3) The control device is equipped with the applicable monitoring equipment
3987 in Section 218.105(d), and the monitoring equipment is installed,
3988 calibrated, operated, and maintained according to vendor specifications at
3989 all times the control device is in use.

3991 b) Alternative Add-On Control Methodologies

- 3993 1) The coating line is equipped with a capture system and control device that
3994 provides 81% reduction in the overall emissions of VOM from the coating
3995 line, and the control device has a 90% efficiency; or

- 3997 2) The system used to control VOM from the coating line is demonstrated to
3998 have an overall efficiency sufficient to limit VOM emissions to no more
3999 than what is allowed under Section 218.204. Use of any control system
4000 other than an afterburner, carbon adsorption, condensation, or absorption
4001 scrubber system can be allowed only if approved by the Agency and
4002 approved by USEPA as a SIP revision. The use of transfer efficiency
4003 credits can be allowed only if approved by the Agency and approved by
4004 USEPA as a SIP revision. Baseline transfer efficiencies and transfer
4005 efficiency test methods must be approved by the Agency and USEPA. The
4006 overall efficiency is to be determined as follows:

- 4008 A) Obtain the emission limitation from the appropriate subsection in
4009 Section 218.204;
- 4011 B) Unless complying with an emission limitation in Section 218.204
4012 that is already expressed in terms of weight of VOM per volume of
4013 solids, calculate "S" according to the equation in Section 218.206.
4014 For coating lines subject to an emission limitation in Section
4015 218.204 that is already expressed in terms of weight of VOM per
4016 volume of solids, "S" is equal to the emission limitation; and
- 4018 C) Calculate the overall efficiency required according to Section
4019 218.105(e). To calculate this value, according to the equation in
4020 Section 218.105(e)(2), VOM_i is equal to the value of "S" as
4021 determined in subsection (b)(2)(B). If the coating line is subject to
4022 an emission limitation in Section 218.204 that is already expressed
4023 in terms of weight of VOM per volume of solids, VOM_i is equal to
4024 that emission limitation.

- 4025
- 4026 c) An owner or operator of a coating line subject to only one of the emission

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limitations from among Section 218.204(a)(1), (a)(5), (a)(6), (d), (e), (f), or (i) and equipped with a capture system and control device must not operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) are met. An owner or operator of a coating line subject to Section 218.204(a)(2), (a)(3), or (a)(4) and equipped with a capture system and control device must not operate the coating line unless the owner or operator demonstrates compliance with the limitation in ~~compliance~~accordance with the topcoat protocol in Section 218.105(b)(1)(A) or (b)(1)(B), as applicable.

- d) An owner or operator of a heavy off-highway vehicle products coating line that applies at least one coating during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(k) (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and control device must not operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) are met.
- e) An owner or operator of an existing diesel-electric locomotive coating line in Cook County that applies at least one coating during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(m) (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and control device must not operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) are met.
- f) An owner or operator of a wood furniture coating line that applies at least one coating during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(l) (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), and that is equipped with a capture system and control device must not operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) are met.
- g) An owner or operator of a can coating line equipped with a capture system and control device must not operate the subject coating line unless the requirements in subsection (g)(1) or (g)(2) are met.
- 1) An alternative daily emission limitation for the can coating operation, i.e., for all the can coating lines at the source, must be determined according to Section 218.205(b)(2). Actual daily emissions must not exceed the alternative daily emission limitation and must be calculated using the following equation:

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$$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$$

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);

i = Subscript denoting the specific coating applied;

n = Total number of surface coatings as applied in the can coating operation;

V_i = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM);

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM); and

F_i = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

- 2) The coating line is equipped with a capture system and control device that provide 75% reduction in the overall emissions of VOM from the coating line, and the control device has a 90% efficiency.

h) An owner or operator of a paper coating line, metal furniture coating line, or large appliance coating line that is equipped with a capture system and control device must not operate the subject coating line unless either:

- 1) The capture system and control device provide at least 90% reduction in the overall emissions of VOM from the coating line; or
- 2) The owner or operator complies with the applicable limitation in Section 218.204 by using a combination of low-VOM coatings and a capture system and control device.

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- i) An owner or operator of a flat wood paneling coating line that is equipped with a capture system and control device must not operate the subject coating line unless either:
- 1) The capture system and control device provide at least 90% reduction in the overall emissions of VOM from the coating line; or
 - 2) The owner or operator of the flat wood paneling coating line complies with all requirements in subsection (b)(2).
- j) An owner or operator of a miscellaneous metal parts and products coating line, plastic parts and products coating line, or pleasure craft surface coating line that is equipped with a capture system and control device must not operate the subject coating line unless:
- 1) The capture system and control device provide at least 90% reduction in the overall emissions of VOM from the coating line; or
 - 2) The owner or operator of the coating line complies with all requirements in subsection (b)(2).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.208 Exemptions from Emission Limitations

- a) Exemptions for all coating categories except wood furniture coating
- ~~1)~~ 1) The limitations of this Subpart do not apply to coating lines within a source that otherwise would be subject to the same subsection of Section 218.204 (because they belong to the same coating category, e.g., can coating), if combined actual emissions of VOM from all lines at the source subject to that subsection never exceed 6.8 kg/day (15 lbs/day) before applying capture systems and control devices. (For example, can coating lines within a source would not be subject to the limitations of Section 218.204(b) if the combined actual emissions of VOM from the can coating lines never exceed 6.8 kg/day (15 lbs/day) before applying capture systems and control devices.)
- ~~2)~~ 2) VOM emissions from heavy off-highway vehicle products coating lines

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must be combined with VOM emissions from miscellaneous metal parts and products coating lines and plastic parts and products coating lines to determine applicability.

~~3)3)~~ Any owner or operator of a coating source must comply with the applicable coating analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.211(a), if total VOM emissions from the subject coating lines are always 6.8 kg/day (15 lbs/day) or less before applying capture systems and control devices and are not subject to the limitations of Section 218.204.

~~4)4)~~ Once a category of coating lines at a source is subject to the limitations in Section 218.204, the coating lines are always subject to the limitations in Section 218.204.

b) Applicability for wood furniture coating

1) The limitations of this Subpart apply to a source's wood furniture coating lines if the source contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, or BB which as a group both:

- A) Have maximum theoretical emissions of at least 91 Mg (100 tons) per calendar year of VOM if no air pollution control equipment were used; and
- B) Are not limited to less than 91 Mg (100 tons) of VOM per calendar year if no air pollution control equipment were used, through production or capacity limitations in a federally enforceable permit or SIP revision.

2) The limitations of this Subpart apply to a source's wood furniture coating lines on and after March 15, 1996, if the source contains process emission units which, as a group, have a potential to emit at least 22.7 Mg (25 tons) of VOM per calendar year and have not limited emissions to less than 22.7 Mg (25 tons) of VOM per calendar year through production or capacity limitations in a federally enforceable operating permit or SIP revision, and that:

- A) Are not regulated by Subparts B, E, F (excluding Section

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- 4168 218.204(l)), H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z
4169 or BB; and
4170
4171 B) Are not included in any of the following categories: synthetic
4172 organic chemical manufacturing industry (SOCMI) distillation,
4173 SOCMI reactors, plastic parts coating (business machines), plastic
4174 parts coating (other), offset lithography, industrial wastewater,
4175 autobody refinishing, SOCMI batch processing, VOL storage
4176 tanks, and clean-up solvents operations.
4177
4178 3) If a source ceases to fulfill the criteria of subsection (b)(1) or (b)(2), the
4179 limitations of Section 218.204(l) continue to apply to any wood furniture
4180 coating line which was ever subject to the limitations of Section
4181 218.204(l).
4182
4183 4) For this subsection (b), an emission unit is considered regulated by a
4184 Subpart if it is subject to the limitations of that Subpart. An emission unit
4185 is not considered regulated by a Subpart if it is not subject to the limits of
4186 that Subpart, e.g., the emission unit is covered by an exemption in the
4187 Subpart, or the applicability criteria of the Subpart are not met.
4188
4189 5) Any owner or operator of a wood furniture coating line to which the
4190 limitations of this Subpart are not applicable due to the criteria in this
4191 subsection (b) must, upon request by the Agency or USEPA, submit
4192 records to the Agency and USEPA within 30 calendar days after the date
4193 of the request that document that the coating line is exempt from the
4194 limitations of this Subpart.
4195
4196 c) On and after March 15, 1996, the limitations of this Subpart do not apply to
4197 touch-up and repair coatings used by a coating source described by Section
4198 218.204(b), (d), (f), (g), (i), and (q)(5) if/yr the source-wide volume of these
4199 coatings used is 0.95 l (1 quart) or less per eight-hour period or 209 l (55 gal/yr)
4200 or less for any rolling 12-month period. Recordkeeping and reporting for
4201 touch-up and repair coatings must be consistent with subsection (d).
4202
4203 d) On and after March 15, 1996, the owner or operator of a coating line or a group of
4204 coating lines using touch-up and repair coatings that are exempted from the
4205 limitations of Section 218.204(b), (d), (f), (g), (i), and (q)(5) by subsection (c)
4206 must:
4207
4208 1) Collect and record the name, identification number, and volume used of

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each touch-up and repair coating, as applied on each coating line, per eight-hour period and per month;

- 2) Perform calculations on a daily basis, and maintain at the source records of the calculations, of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;
- 3) Perform calculations on a monthly basis, and maintain at the source records of the calculations, of the combined volume of touch-up and repair coatings used source-wide for the month and the rolling 12-month period;
- 4) Prepare and maintain at the source an annual summary of the information required to be compiled under subsections (d)(1) and (d)(2) by January by January 31 of the following year;
- 5) Maintain at the source for at least three years all records required to be kept under this subsection (d), and make the records available to the Agency upon request; and
- 6) Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.95 l (1 quart) per eight-hour period or 209 l/yr (55 gal/yr) for any rolling 12-month period within 30 days after the exceedance. The notification must include a copy of any records of the exceedance.

"Touch-up and repair coatings" means, for Section 218.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.209 Exemption From General Rule on Use of Organic Material

An owner or operator of a coating line subject to the limitations of Section 218.204 is not required to meet the limitations of Section 218.301 or 218.302 after the date by which the coating line is required to meet Section 218.204.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.210 Compliance Schedule

Every owner or operator of a coating line (of a type included within Section 218.204) must comply with the requirements of Section 218.204, 218.205, 218.207, or 218.208 and Section 218.211 or Sections 218.212 and 218.213 in ~~compliance~~accordance with the appropriate compliance schedule in subsection (a), (b), (c), (d), (e), (f), (g), ~~or~~ (h), or (i):

- a) An owner or operator of a coating line that is exempt from the limitations of Section 218.204 because of the criteria in Section 218.208(a) or (b) must not operate the coating line on or after a date consistent with Section 218.106, unless the owner or operator has complied with and continues to comply with Section 218.211(b).
- b) An owner or operator of a coating line complying under Section 218.204 must not operate the coating line on or after a date consistent with Section 218.106, unless the owner or operator has complied with and continues to comply with Sections 218.204 and 218.211(c).
- c) An owner or operator of a coating line complying under Section 218.205 must not operate the coating line on or after a date consistent with Section 218.106, unless the owner or operator has complied with and continues to comply with Sections 218.205 and 218.211(d).
- d) An owner or operator of a coating line complying under Section 218.207 must not operate the coating line on or after a date consistent with Section 218.106, unless the owner or operator has complied with and continues to comply with Sections 218.207 and 218.211(e).
- e) An owner or operator of a coating line subject to at least one of the emission limitations in Section 218.204 on or after March 15, 1996, and choosing to comply under Section 218.204, 218.205, or 218.207 must not operate the coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the applicable requirements in Section 218.204 or the alternative control options in Section 218.205 or 218.207, and the requirements of Section 218.211.
- f) An owner or operator of a coating line subject to at least one of the emission limitations in Section 218.204 on or after March 15, 1996, and choosing to comply under Section 218.212 must not operate the coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the requirements of Sections 218.212 and 218.213.

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- g) An owner or operator of a coating line subject to the emission limitations in Section 218.204(c)(1), (g)(1), or (h)(1) must not operate that coating line on or after a date consistent with Section 218.106(e), unless the owner or operator has complied with and continues to comply with Section 218.204(c)(1), (g)(1), or (h)(1), as applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.218.
- h) An owner or operator of a coating line subject to the emission limitations in Section 218.204 (p) must not operate that coating line on or after a date consistent with Section 218.106(e), unless the owner or operator has complied with and continues to comply with Section 218.204(p) or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.217.
- i) No owner or operator of a coating line subject to the emission limitations in Section 218.204(a)(2) or (q) of this Subpart, or subject to the limitations in Section 218.219 of this Subpart, shall operate the coating line on or after a date consistent with Section 218.106(g) of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.204(a)(2) or (q), if applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.219 of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.211 Recordkeeping and Reporting

- a) The VOM content of each coating and the efficiency of each capture system and control device must be determined by the applicable test methods and procedures in Section 218.105 to establish the records required under this Section.
- b) Any owner or operator of a coating line that is exempted from the limitations of Section 218.204 because of Section 218.208(a) or (b) must comply with the following:
- 1) For sources exempt under Section 218.208(a), by a date consistent with Section 218.106, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) must certify to the Agency that the coating line or group of coating lines is exempt under Section 218.208(a). The certification must include:

Weinert, Beate [BW21] May 1, 2026
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(Source: Amended at 34 Ill. Reg. 14174,
effective September 14, 2010)

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- A) A declaration that the coating line or group of coating lines is exempt from the limitations of Section 218.204 because of Section 218.208(a); and
- B) Calculations that demonstrate that the combined VOM emissions from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before applying capture systems and control devices. The following equation must be used to calculate total VOM emissions:

$$T_e = \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

where:

- T_e = Total VOM emissions from coating lines each day before applying capture systems and control devices in units of kg/day (lbs/day);
- m = Number of coating lines at the source that otherwise would be subject to the same subsection of Section 218.104 (because they belong to the same category, e.g., can coating);
- j = Subscript denoting an individual coating line;
- n = Number of different coatings as applied each day on each coating line;
- i = Subscript denoting an individual coating;
- A_i = Weight of VOM per volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); and
- B_i = Volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or

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method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day must be described in the certification to the Agency.

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- 2) For sources exempt under Section 218.208(b), by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) must certify to the Agency that the source is exempt under Section 218.208(b). The certification must include:
 - A) A declaration that the source is exempt from the limitations of Section 218.204(l) because of Section 218.208(b); and
 - B) Calculations that demonstrate that the source meets the criteria for exemption because of Section 218.208(b).
 - 3) For sources exempt under Section 218.208(a), on and after a date consistent with Section 218.106, the owner or operator of a coating line or group of coating lines referenced in this subsection must collect and record all of the following information each day for each coating line and maintain the information at the source for three years:
 - A) The name and identification number of each coating as applied on each coating line; and
 - B) The weight of VOM per volume and the volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - 4) For sources exempt under Section 218.208(b), on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) must collect and record all of the following information for each coating line and maintain the information at the source for three years:
 - A) The name and identification number of each coating as applied on each coating line; and
 - B) The weight of VOM per volume and the volume of each coating

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(excluding water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.

- 5) On and after a date consistent with Section 218.106, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 218.204 because of Section 218.208(a) must notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before applying capture systems and control devices by sending a copy of the record to the Agency within 30 days after the exceedance occurs.
- 6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(l) because of Section 218.208(b) must notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing the exceedance within 30 days after the change occurs.
- c) Any owner or operator of a coating line subject to the limitations of Section 218.204 other than Section 218.204(a)(2), (a)(3), or (a)(4) and complying under Section 218.204 must comply with the following:
- 1) By a date consistent with Section 218.106, upon initial start-up of a new coating line, or upon changing the method of compliance for an existing subject coating line from Section 218.205, 218.207, 218.215, or 218.216 to Section 218.204, the owner or operator of a subject coating line must certify to the Agency that the coating line will be in compliance with Section 218.204 on and after a date consistent with Section 218.106 or on and after the initial start-up date. The certification must include:
- A) The name and identification number of each coating as applied on each coating line;
- B) The weight of VOM per volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(1)(A) or (B), the weight of VOM per weight of solids in each coating as applied each day on each

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coating line;

- D) For coating lines subject to the limitations of Section 218.204(c)(1), the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line;
- E) For coating lines subject to the limitations of Section 218.204(g)(1) or (h)(1), the application methods used to apply coatings on the subject coating line and the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line;
- F) For coating lines subject to the limitations of Section 218.204(p), the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;
- G) For coating lines subject to the limitations of Section 218.204(a)(1), the weight of VOM per volume of solids in each coating as applied each day on each coating line, and the solids turnover ratio of the EDP operation, with supporting calculations;
- H) For coating lines subject to the limitations of Section 218.204(a)(5), the weight of VOM per volume and volume of each coating used in the final repair coat operation, and the weight of VOM per volume of the final repair coat as applied, calculated on an occurrence weighted average basis;
- I) For coating lines subject to the limitations of Section 218.204(q), the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.

- 2) On and after a date consistent with Section 218.106 or on and after the initial start-up date, the owner or operator of a subject coating line must collect and record all of the following information each day, unless otherwise specified, for each coating line and maintain the information at the source for three years:

- A) The name and identification number of each coating as applied on

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each coating line;

- B) The weight of VOM per volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(1)(A) or (B), the weight of VOM per weight of solids in each coating as applied each day on each coating line, and certified product data sheets for each coating;
- D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 218.204(l)(3)(A), the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth, and certified product data sheets for each coating;
- E) For coating lines subject to the limitations of Section 218.204(c)(1), the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating;
- F) For coating lines subject to the limitations of Section 218.204(g)(1) or 218.204(h)(1), the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating;
- G) For coating lines subject to the limitations of Section 218.204(p), the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;
- H) For coating lines subject to the limitations of Section 218.204(a)(1), the weight of VOM per volume of solids in each coating as applied each day on each coating line, certified product data sheets for each coating, and the solid turnover ratio for the EDP operation, calculated on a calendar monthly basis, with supporting calculations;

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- 4506 I) For coating lines subject to the limitations of Section
4507 218.204(a)(5), the weight of VOM per volume and volume of each
4508 coating used in the final repair coat operation, the weight of VOM
4509 per volume of the final repair coat as applied, calculated on an
4510 occurrence weighted average basis, and certified product data
4511 sheets for each coating; and
4512
- 4513 J) For coating lines subject to the limitations of Section 218.204(q),
4514 the weight of VOM per volume of each coating, or the weight of
4515 VOM per volume of solids in each coating, as applicable, as
4516 applied each day on each coating line, and certified product data
4517 sheets for each coating.
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- 4519 3) On and after a date consistent with Section 218.106, the owner or operator
4520 of a subject coating line must notify the Agency in the following
4521 instances:
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- 4523 A) Any record showing violation of Section 218.204 must be reported
4524 by sending a copy of the record to the Agency within 30 days after
4525 the violation.
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- 4527 B) At least 30 calendar days before changing the method of
4528 compliance from Section 218.204 to Section 218.205 or 218.207,
4529 the owner or operator shall comply with all requirements of
4530 subsection (d)(1) or (e)(1), as applicable. Upon changing the
4531 method of compliance from Section 218.204 to Section 218.205 or
4532 218.207, the owner or operator must comply with all requirements
4533 of subsection (d) or (e), as applicable.
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- 4535 d) Any owner or operator of a coating line subject to the limitations of Section
4536 218.204 and complying under Section 218.205 must comply with the following:
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- 4538 1) By a date consistent with Section 218.106, upon initial start-up of a new
4539 coating line, or upon changing the method of compliance for an existing
4540 subject coating line from Section 218.204 or 218.207 to Section 218.205,
4541 the owner or operator of the subject coating line must certify to the
4542 Agency that the coating line will be in compliance with Section 218.205
4543 on and after a date consistent with Section 218.106 or on and after the
4544 initial start-up date. The certification must include:
4545
- 4546 A) The name and identification number of each coating line which

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will comply by means of Section 218.205.

- B) The name and identification number of each coating as applied on each coating line.
- C) The weight of VOM per volume and the volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
- D) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(1)(a) or (B), the weight of VOM per weight of solids in each coating as applied each day on each coating line.
- E) For coating lines subject to the limitations of Section 218.204(a)(1), the weight of VOM per volume of solids in each coating as applied each day on each coating line.
- F) For coating lines subject to the limitations of Section 218.204(c)(1), the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
- G) For coating lines subject to the limitations of Section 218.204(g)(1) or (h)(1), the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
- H) For coating lines subject to the limitations of Section 218.204(p), the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line.
- I) For coating lines subject to the limitations of Section 218.204(q), the weight of VOM per volume of each coating or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
- J) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.

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- K) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2).
 - L) An example of the format in which the records required in subsection (d)(2) will be kept.
- 2) On and after a date consistent with Section 218.106 or on and after the initial start-up date, the owner or operator of a subject coating line must collect and record all of the following information each day for each coating line and maintain the information at the source for three years:
- A) The name and identification number of each coating as applied on each coating line.
 - B) The weight of VOM per volume and the volume of each coating (excluding water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(1)(A) or (B), the weight of VOM per weight of solids in each coating as applied each day on each coating line.
 - D) For coating lines subject to the limitations of Section 218.204(a)(1), the weight of VOM per volume of solids in each coating as applied each day on each coating line.
 - E) For coating lines subject to the limitations of Section 218.204(c)(1), the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
 - F) For coating lines subject to the limitations of Section 218.204(g)(1) or (h)(1), the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
 - G) For coating lines subject to the limitations of Section 218.204(p), the weight of VOM per volume of coatings or solids, as applicable,

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for each coating, as applied each day on each coating line.

H) For coating lines subject to the limitations of Section 218.204(q), the weight of VOM per volume of each coating or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.

I) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104.

3) On and after a date consistent with Section 218.106, the owner or operator of a subject coating line must notify the Agency in the following instances:

A) Any record showing violation of Section 218.205 must be reported by sending a copy of the record to the Agency within 30 days after the violation.

B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.205 to Section 218.204 or 218.207, the owner or operator must comply with all requirements of subsection (c)(1) or (e)(1), as applicable. Upon changing the method of compliance with this Subpart from Section 218.205 to Section 218.204 or 218.207, the owner or operator must comply with all requirements of subsection (c) or (e), as applicable.

e) Any owner or operator of a coating line subject to the limitations of Section 218.207 and complying under Section 218.207(c), (d), (e), (f), (g), (h), (i), or (j) must comply with the following:

1) By a date consistent with Section 218.106, upon initial start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 218.204 or 218.205 to Section 218.207, the owner or operator of the subject coating line must perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject coating line will be in compliance with Section 218.207 on and after a date consistent with Section 218.106 or on and after the initial start-up date.

2) On and after a date consistent with Section 218.106 or on and after the

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initial start-up date, the owner or operator of a subject coating line must collect and record all of the following information each day for each coating line and maintain the information at the source for three years:

- A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying under Section 218.207(b)(2).
 - B) Control device monitoring data.
 - C) A log of operating time for the capture system, control device, monitoring equipment, and the associated coating line.
 - D) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106, the owner or operator of a subject coating line must notify the Agency in the following instances:
- A) Any record showing violation of Section 218.207 must be reported by sending a copy of the record to the Agency within 30 days after the violation.
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.207 to Section 218.204 or 218.205, the owner or operator must comply with all requirements of subsection (c)(1) or (d)(1), respectively. Upon changing the method of compliance with this Subpart from Section 218.207 to Section 218.204 or 218.205, the owner or operator must comply with all requirements of subsection (c) or (d), respectively.
- f) Any owner or operator of a primer surfacer operation or topcoat operation, or combined primer surfacer and topcoat operation, subject to the limitations of Section 218.204(a)(2), (a)(3), or (a)(4) must comply with the following:
- 1) By a date consistent with Section 218.106 or upon initial start-up of a new coating operation, the owner or operator of a subject coating operation must certify to the Agency that the operation will be in compliance with

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Section 218.204 on and after a date consistent with Section 218.106 or on and after the initial start-up date. The certification must include:

- A) The name and identification number of each coating operation that will comply under Section 218.204(a)(2), (a)(3), or (a)(4) and the name and identification number of each coating line in each coating operation.
 - B) The name and identification number of each coating as applied on each coating line in the coating operation.
 - C) The weight of VOM per volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - D) The transfer efficiency and control efficiency measured for each coating line.
 - E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.
 - F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
 - G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2).
 - H) An example format for presenting the records required in subsection (f)(2).
- 2) On and after a date consistent with Section 218.106 or on and after the initial start-up date, the owner or operator of a subject coating operation must collect and record all of the following information each day for each operation and maintain the information at the source for three years:
- A) All information necessary to demonstrate compliance with the topcoat protocol in Section 218.105(b)(1)(B) and to calculate the daily-weighted average VOM emissions from the coating operations in kg/l (lbs/gal) of coating solids deposited in

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compliance with the proposal submitted, and approved under Section 218.204(a)(2), (a)(3), or (a)(4), including:

- i) The name and identification number of each coating as applied on each coating operation.
 - ii) The weight of VOM per volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating operation.
- B) If a control device or devices are used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment, and the associated coating operation; and a maintenance log for the capture system, control device, and monitoring equipment, detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106 or on and after the initial start-up date, the owner or operator of a subject coating operation must determine and record the daily VOM emissions in kg/l (lbs/gal) of coating solids deposited in compliance with the proposal submitted and approved under Section 218.204(a)(2), (a)(3), or (a)(4) within 10 days after the end of the month and maintain this information at the source for three years.
- 4) On and after a date consistent with Section 218.106, the owner or operator of a subject coating operation must notify the Agency in the following instances:
- A) Any record showing a violation of Section 218.204(a)(2), (a)(3), or (a)(4) must be reported by sending a copy of the record to the Agency within 15 days after the end of the month in which the violation occurred.
 - B) The owner or operator must notify the Agency of any change to the operation at least 30 days before the change is effected. The Agency must determine whether or not compliance testing is required. If the Agency determines that compliance testing is required, then the owner or operator must submit a testing proposal

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to the Agency within 30 days and test within 30 days after the
Agency and USEPA approve the proposal.

- g) On and after a date consistent with Section 218.106(e) or on and after the initial startup date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.218 must comply with the following:
- 1) By May 1, 2011, or upon initial startup, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.218;
 - 2) Notify the Agency of any violation of Section 218.218 by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days after the violation; and
 - 3) Maintain at the source all records required by this subsection (g) for at least three years from the date the document was created, and make those records available to the Agency upon request.
- h) On and after a date consistent with Section 218.106 or on and after the initial start-up date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.219 must comply with the following:
- 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes:
 - A) A description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.219;
 - B) For sources subject to Section 218.219(a)(6), the work practices plan specified in that Section;
 - C) For sources subject to Section 218.219(b)(6), the application methods used to apply coatings on the subject coating line;
 - 2) Notify the Agency of any violation of Section 218.219 by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days after the violation; and

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3) Maintain at the source all records required by this subsection (h) for at least three years from the date the document was created, and make those records available to the Agency upon request.

i) On and after a date consistent with Section 218.106(f) or on and after the initial start-up date, whichever is later, the owner or operator of a flat wood paneling coating line subject to the requirements in Section 218.217 must comply with the following:

1) By August 1, 2010, or upon initial start-up, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.217(c) and (d); and

2) Notify the Agency of any violation of Section 218.217 by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days after the violation.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines

a) On and after March 15, 1996, any owner or operator of a coating line subject to the limitations in Section 218.204, except coating lines subject to the limitations in Section 218.204(a), (c)(1), (g)(1), (h)(1), (p), or (q), and with coating lines in operation before January 1, 1991 (pre-existing coating lines), may, for pre-existing coating lines only, elect to comply with the requirements of this Section rather than the applicable emission limitations in Section 218.204, if an operational change of the type described in this subsection has been made after January 1, 1991, to at least one pre-existing coating line at the source. An operational change occurs when a pre-existing coating line is replaced with a line using lower VOM coating for the same purpose as the replaced line (replacement line). A source electing to rely on this Section to demonstrate compliance with this Subpart must operate under federally enforceable permit conditions approved by the Agency and USEPA.

b) An owner or operator of pre-existing coating lines subject to a VOM content limitation in Section 218.204 and electing to rely on this Section to demonstrate compliance with this Subpart must establish, using the equations in subsection (d), that the calculated actual daily VOM emissions from all participating coating

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lines, as defined in this subsection, are less than the calculated daily allowable VOM emissions from the same group of coating lines. For any pre-existing coating line to be aggregated for Section 218.212, 218.213, or 218.214 ("participating coating lines"), the source must establish that:

- 1) All coatings applied on the participating coating line must at all times have a VOM content less than or equal to the applicable VOM content limitation for the coating listed in Appendix H; and
 - 2) On the date the source elects to rely on this Section to demonstrate compliance with this Subpart, all coatings applied on the participating coating line are not already in compliance with the VOM content limitation for the coating effective on or after March 15, 1996; or the participating coating line is a replacement line as defined in subsection (a) with an operational change occurring on or after January 1, 1991.
- c) Despite subsection (a), any owner or operator of a coating line subject to the limitations in Section 218.204, and electing to rely on this Section to demonstrate compliance with this Subpart, may until December 31, 1999, also include as a participating coating line any replacement line that satisfies all of the following conditions:
- 1) The replacement line is operated as a powder coating line;
 - 2) The replacement line was added after July 1, 1988; and
 - 3) The owner or operator also includes as a participating coating line at least one coating line that satisfies the criteria of a replacement line, as described in subsection (a).
- d) To demonstrate compliance with this Section, a source must establish the following:
- 1) An alternative daily emission limitation must be determined for all participating coating lines at the source under subsection (d)(2). All participating coating lines must be factored in each day to demonstrate compliance. If compliance is established under this subsection, nothing in this Section requires daily operation of each participating line. Actual daily emissions from all participating coating lines (E_d) must never exceed the alternative daily emission limitation (A_d) and must be calculated using the following equation:

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$$E_d = \sum_{i=1}^n V_i C_i$$

where:

- E_d = Actual daily VOM emissions from participating coating lines in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied by all participating coating lines at the source;
- V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM); and
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) must be determined for all participating coating lines at the source on a daily basis as follows:

$$A_d = A_i + A_p$$

where A_i and A_p are defined in subsections (d)(2)(A) and (d)(2)(B).

- A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A_i) must be determined for all participating non-powder coating lines on a daily basis as follows:

$$A_i = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

where:

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- A_i = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied in the participating coating lines;
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM);
- D_i = The density of VOM in each coating applied. To calculate A_i , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_i = Volume of each coating applied for the day in units of l (gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM); and
- L_i = The VOM emission limitation for each coating applied, as specified in Section 218.204, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM).

- B) The portion of the alternative daily emission limitation for coating operations at a source using powdered coating (A_p) must be determined for all participating powder coating lines at the source on a daily basis as follows:

$$A_p = \sum_{h=1}^m \sum_{j=1}^n \frac{V_j L_j D_j K_h}{(D_j - L_j)}$$

where:

- A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);

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- h = Subscript denoting a specific powder coating line;
- j = Subscript denoting a specific powder coating applied;
- m = Total number of participating powder coating lines;
- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating;
- L_j = The VOM emission limitation for each coating applied, as specified in Section 218.204, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds that are specifically exempted from the definition of VOM); and
- K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system that has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value must be determined by the source based on tests conducted and records maintained under Section 218.213 demonstrating the amount of coating solids consumed as both liquid powder. Test methods and recordkeeping requirements must be approved by the Agency and USEPA and must be in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
-) K cannot exceed 0.9 for non-recycled powder coating systems; or
 -) K cannot exceed 2.0 for recycled powder coating systems.

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(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines

Any owner or operator of a coating line that elects to comply by means of Section 218.212 must establish the following:

- a) By the date consistent with Section 218.210(f), upon initial start-up of a new coating line replacing a pre-existing coating line, as defined in Section 218.212, or upon changing the method of compliance for a pre-existing coating line from the requirements of Section 218.204 or 218.207 to the requirements of Section 218.212, the owner or operator of the source must certify to the Agency that each participating coating line, as determined in compliance with Section 218.212, will be in compliance with Section 218.212 on and after a date consistent with Section 218.210(f) or on and after the initial start-up date of the participating coating lines. The certification must also include:
- 1) The name and identification number of each participating coating line;
 - 2) The name and identification number of each coating as applied on each participating coating line;
 - 3) The weight of VOM per volume of each coating and the volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each participating coating line;
 - 4) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each participating coating line;
 - 5) The method by which the owner or operator will create and maintain records each day as required in subsection (b);
 - 6) An example of the format in which the records required in subsection (b) will be kept;
 - 7) A statement that all coatings used on participating coating lines have a VOM content less than or equal to the applicable VOM limitation for the

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coating in Appendix H, and that all lines either:

- A) Underwent a change in operations incorporating a lower VOM coating on each applicable participating coating line after January 1, 1991; or
- B) Are not in compliance and continued compliance with the coating limitations in Section 218.204, compliance with which is required on or after March 15, 1996.
- 8) The method by which the owner or operator has calculated K, for the equation in Section 218.212(d)(2)(B), if applicable.
- b) On and after a date consistent with Section 218.210(f) or on and after the initial start-up date, the owner or operator of a source electing to comply with the requirements of this Subpart under Section 218.212 must collect and record the following information on a daily basis for each participating coating line and maintain the information at the source for three years:
- 1) The name and identification number of each coating as applied on each participating coating line;
- 2) The weight of VOM per volume and the volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied on each participating coating line on a daily basis; and
- 3) The daily weighted average VOM content of all coatings as applied on each coating line as defined at 35 Ill. Adm. Code 211.1230.
- c) On and after a date consistent with Section 218.210(f), the owner or operator of participating coating lines must:
- 1) Notify the Agency within 30 days after a violation of Section 218.212; and
- 2) Send to the Agency any record showing a violation of Section 218.212 within 30 days after a violation.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.214 Changing Compliance Methods

- a) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.212 to Section 218.204 or 218.207, the owner or operator of a source relying on Section 218.212 to demonstrate compliance with this Subpart for at least one pre-existing coating line must comply with all requirements of Section 218.211(c)(1) or (e)(1), respectively.
- b) Upon changing the method of compliance with this Subpart from Section 218.212 to Section 218.204 or Section 218.207, the owner or operator of a source must comply with the requirements of Section 218.211(c) or (e), respectively.
- c) The owner or operator must certify that all remaining participating coating lines, if any, comply and continue to comply with the requirements of Section 218.212.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.215 Wood Furniture Coating Averaging Approach

- a) On and after March 15, 1998, any owner or operator of a source subject to the limitations of Section 218.204(l) may elect to comply with the requirements of this Section rather than the applicable emission limitations in Section 218.204(l)(1)(A) or (B). The source must continue to comply with the limitations in Section 218.204(l)(2) and (3). A source electing to rely on this Section to demonstrate compliance with the requirements of this Subpart must operate under federally enforceable permit conditions approved by the Agency and USEPA.
- b) An owner or operator of a source subject to the limitations of Section 218.204(l) and electing to rely on this Section to demonstrate compliance with this Subpart must establish using subsection (b)(1) or (b)(2) that, on a daily basis, actual emissions from the affected source are 90% or less of the allowable emissions, that is $V_a \leq V_p$:

1) Option I:

A)
$$V_a = \sum_{i=1}^n (ER_i \times TC_i)$$
; and

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$$V_p = 0.9 \times \sum_{i=1}^n (0.8 \times TC_i)$$

B)

2) Option II:

$$V_a = \sum_{i=1}^n \left[\left(\frac{ER_{TC_i} \times TC_i}{100} \right) + \left(\frac{ER_{SE_i} \times SE_i}{100} \right) + \left(\frac{ER_{WC_i} \times WC_i}{100} \right) + \left(\frac{ER_{PC_i} \times PC_i}{100} \right) + \left(\frac{ER_{ST_i} \times ST_i}{100} \right) \right]; \text{ and } \left(\frac{Add}{100} \right) \times PC_i + (0.791 \times ST_i)]$$

A)

$$V_p = 0.9 \times \sum_{i=1}^n \left[\left(\frac{12 \times TC_i}{100} \right) + \left(\frac{9 \times SE_i}{100} \right) + \left(\frac{9 \times WC_i}{100} \right) + \left(\frac{12 \times PC_i}{100} \right) + \left(\frac{0.791 \times ST_i}{100} \right) \right]$$

B)

where:

 $V_a =$

Actual VOM emissions from the source;

 V_a = Actual VOM emissions from the source; V_p = 90% of the allowable VOM emissions from the source; n = Number of different wood furniture coatings as applied each day on each coating line; i = Subscript denoting an individual coating; TC_i = kilograms of solids in topcoat "i" used; SE_i = kilograms of solids in sealer "i" used; WC_i = kilograms of solids in wash coat "i" used; PC_i = kilograms of solids in non-topcoat pigmented coat "i" used; ST_i = liters of stain "i" used; ER_{TC} = VOM content of topcoat "i" in kg VOM/kg solids, as

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ER_{SE_i}	=	<u>applied;</u> <u>VOM content of sealer "i" in kg VOM/kg solids, as</u> <u>applied;</u>
ER_{WC_i}	=	<u>VOM content of washcoat "i" in kg VOM/kg solids, as</u> <u>applied;</u>
ER_{PC_i}	=	<u>VOM content of non-topcoat pigmented coat "i" in kg</u> <u>VOM/kg solids, as applied;</u>
ER_{ST_i}	=	<u>VOM content of stain "i" in kg VOM/liter (kg/l), as</u> <u>applied;</u>

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V_p = 90% of the allowable VOM emissions from the source;
 n = Number of different wood furniture coatings as applied each day on each coating line;
 i = Subscript denoting an individual coating;
 TC_i = kilograms of solids in topcoat "i" used;
 SE_i = kilograms of solids in sealer "i" used;
 WC_i = kilograms of solids in wash coat "i" used;
 PC_i = kilograms of solids in non-topcoat pigmented coat "i" used;
 ST_i = liters of stain "i" used;
 ER_{TC_i} = VOM content of topcoat "i" in kg VOM/kg solids, as applied;
 ER_{SE_i} = VOM content of sealer "i" in kg VOM/kg solids, as applied;
 ER_{WC_i} = VOM content of washcoat "i" in kg VOM/kg solids, as applied;
 ER_{PC_i} = VOM content of non-topcoat pigmented coat "i" in kg VOM/kg solids, as applied;
 ER_{ST_i} = VOM content of stain "i" in kg VOM/liter (kg/l), as applied;

- c) Within the source's federally enforceable permit conditions, an owner or operator of a source electing to rely on this Section to demonstrate compliance with this Subpart must provide to the Agency:

- 1) The name and identification number of each participating coating line;
 - 2) The name and identification number of each coating as applied on each participating coating line;
 - 3) A summary of how averaging will be used to meet the emission limitations;
 - 4) Documentation that $V_a \leq V_p$, as calculated in subsection (b)(1) or (2);
 - 5) A description of which types of coating materials will be included in the source's averaging program, which may include stains, basecoats,

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washcoats, sealers, and topcoats. Coating materials that are applied using continuous coaters may be used in an averaging program only if the source can determine the amount of coating used each day;

- 6) A description of methods and procedures for quantifying emissions on a daily basis, including methods to determine the VOM content of each coating and the daily usage of each coating; and

- 7) A summary of the monitoring, recordkeeping, and reporting procedures that will be used to demonstrate daily compliance with the options in subsections (b)(1) and (2). These procedures must allow the Agency and the owner or operator of the source to determine the source's compliance status for any given day.

- d) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart must, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for three years:

- 1) The name and identification number of each coating as applied on the coating line;
- 2) The weight of VOM per weight of solids (kg VOM/kg solids) and the weight of solids (kg) of each coating as applied on each coating line on a daily basis;
- 3) Certified product data sheets for each coating; and
- 4) The calculations showing the source has met the conditions of the options in subsection (b)(1) or (2).

- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart must:

- 1) Notify the Agency within 30 calendar days after a violation of this Section; and
- 2) Send the Agency any record showing a violation of this Section within 30 calendar days after a violation.

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- f) At least 30 calendar days before changing the method of compliance with this Subpart from this Section to Section 218.204(l)(1)(A) or (B), the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines must:

- 1) Comply with all requirements of Section 218.211(c)(1); and
- 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.216 Wood Furniture Coating Add-On Control Use

The owner or operator of a source subject to Section 218.204(l)(1) may choose to comply with those limitations under Section 218.204(l)(1)(D) if the owner or operator meets all of the following requirements:

- a) For each coating applied, determine the overall control efficiency needed to demonstrate compliance using the following equation:

$$R = \left[\frac{(C - L)}{C} \right] \times 100$$

where:

~~R = the necessary overall capture and control efficiency of the control system, as a percentage;~~

R = the necessary overall capture and control efficiency of the control system, as a percentage;

C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;

L = the emission limitation for that coating under Section 218.204(l)(1)(B)

~~C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;~~

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~~L= the emission limitation for that coating under Section 218.204(1)(1)(B).~~

- b) Calculate the equivalent overall capture and control efficiency of the control device using the procedures of Section 218.105(c), (d), and (e).
- c) Demonstrate that the equivalent overall capture and control efficiency calculated using the procedures in Section 218.105(c), (d), and (e) is equal to or greater than the largest value of R calculated for each coating by the equation in subsection (a).
- d) Install, calibrate, operate, and maintain the applicable monitoring equipment for the control device under Section 218.105(d).
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart must, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for three years:
- 1) The name and identification number of each coating as applied on the coating line;
 - 2) The weight of VOM per weight of solids (kg VOM/kg solids) of each coating as applied on each coating line on a daily basis;
 - 3) Certified product data sheets for each coating;
 - 4) Control device monitoring data;
 - 5) A log of operating time for the capture system, control device, monitoring equipment, and the associated coating line; and
 - 6) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and ~~non-routine~~ non-routine maintenance performed, including dates and duration of any outages.
- f) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart must:
- 1) Notify the Agency within 30 calendar days after a violation of this Section; and

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- 2) Send the Agency any record showing a violation of this Section within 30 calendar days after a violation.

- g) At least 30 calendar days before changing the method of compliance with this Subpart from this Section to Section 218.204(l)(1)(A) or (B), the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for at least one wood furniture coating line must:

- 1) Comply with all requirements of Section 218.211(c)(1); and
- 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.217 Wood Furniture Coating and Flat Wood Paneling Coating Work Practice Standards

- a) Spray booth cleaning. Each owner or operator of a source subject to the limitations of Section 218.204(l) must not use compounds containing more than 8.0% by weight of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished by replacing the spray booth coating or other material used to cover the booth, the affected source must use 1.0 gallon or less of organic solvent to prepare the booth before applying the booth coating.
- b) Application equipment requirements. An owner or operator of a source subject to the limitations of Section 218.204(l) must not use conventional air spray guns to apply coating materials to wood furniture **except** under the circumstances in subsections (b)(1) through (4):
- 1) To apply coating materials that have a VOM content of 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids) or less, as applied;
- 2) For repair coating under the following circumstances:

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- A) The coating materials are applied after completing the coating operation; or
- B) The coating materials are applied after the stain and before any other type of coating material is applied, and the coating materials are applied from a container with a volume of 2.0 gallons or less;
- 3) If the spray gun is aimed and triggered automatically rather than manually; or
- 4) If emissions from the finishing application station are directed to a control device under Section 218.216.
- c) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 218.204(l) or (p) must:
- 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
- 2) Pump or drain all organic solvent used for line cleaning into closed containers;
- 3) Collect all organic solvent used to clean spray guns in closed containers; and
- 4) Control emissions from washoff operations by using closed tanks.
- d) Additional cleaning and storage requirements for flat wood paneling coating lines. Every owner or operator of a source subject to the limitations of Section 218.204(p) must:
- 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials and clean up spills immediately;
- ~~2)~~ 2) Minimize emissions of VOM during the cleaning of storage, mixing, and conveying equipment;
- 3) Keep mixing vessels that contain VOM-containing coatings and other VOM-containing materials closed except when specifically in use;

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- 4) On and after January 1, 2012, convey VOM-containing coatings, thinners, and cleaning materials in closed containers or pipes.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings

- a) On and after May 1, 2011, every owner or operator of a source subject to Section 218.204(c) must:

- 1) Store all VOM-containing cleaning materials in closed containers;
- 2) Ensure that mixing and storage containers used for VOM-containing materials are kept closed at all times except when depositing or removing those materials;
- 3) Minimize spills of VOM-containing cleaning materials;
- 4) Convey VOM-containing cleaning materials from one location to another in closed containers or pipes; and
- 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.

- b) On and after May 1, 2011, every owner or operator of a source subject to Section 218.204(g) or 218.204(h) must:

- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
- 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing those materials;
- 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;

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- 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
- 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment; and
- 6) Apply all coatings using at least one of the following application methods:
- A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For this subsection (b), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For this subsection (b), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - F) Brush coating, if subject to the requirements of Section 218.204(h); or
 - G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.

(Source: Amended at 50 Ill. Reg. _____, effective

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Section 218.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings, and Miscellaneous Metal and Plastic Parts Coatings

- a) Every owner or operator of a coating line subject to the requirements of Section 218.204(a) must:

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- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, and coating-related waste materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, and coating-related waste materials;
 - 4) Convey VOM-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes;
 - 5) Minimize VOM emissions from cleaning of storage, mixing, and conveying equipment;
 - 6) Develop and implement a work practice plan to minimize VOM emissions from cleaning and purging equipment associated with coating lines subject to the limitations in Section 218.204(a). The plan must specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed in this subsection (a)(6) are minimized. If the owner or operator of the subject coating line has already implemented a work practice plan for the coating line under Subpart IIII of 40 CFR 63, incorporated by reference in Section 218.112, the owner or operator may revise the plan as necessary to comply with this Section.
 - A) Vehicle body wiping;
 - B) Coating line purging;
 - C) Flushing of coating systems;
 - D) Cleaning of spray booth grates, walls, and equipment; and
 - F) Cleaning of external spray booth areas.
- b) Except under subsection (c), every owner or operator of a coating line described in Section 218.204(q) must:
- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;

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- 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing these materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials;
 - 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
 - 5) Minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers; and
 - 6) Apply all coatings using at least one of the following application methods:
 - A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For this subsection (b)(6)(C), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For this subsection (b)(6)(E), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - F) Airless spray;
 - G) Air-assisted airless spray; or

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- H) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.
- c) Despite subsection (b), the application method limitations in subsection (b)(6) do not apply to:
- 1) Coating lines complying with Section 218.207(j)(1);
 - 2) For metal parts and products coating operations: touch-up coatings, repair coatings, textured finishes, stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating;
 - 3) For pleasure craft surface coating operations, extreme high gloss coatings;
 - 4) For plastic parts and products coating operations, airbrush operations using 18.9 l (5 gal) or less of coating per year; and
 - 5) For ammunition sealant operations, cap sealants and mouth waterproofing sealants.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART G: USE OF ORGANIC MATERIAL

Section 218.301 Use of Organic Material

A person must not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except under Sections 218.302, 218.303, and 218.304. If no odor nuisance exists, then the limitation of this Subpart applies only to photochemically reactive material.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.302 Alternative Standard

Emissions of organic material exceeding those permitted by Section 218.301 are allowable if the

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emissions are controlled by one of the following methods:

- a) Flame, thermal, or catalytic incineration that either reduces emissions to 10 ppm equivalent methane (molecular weight 16) or less or converts 85% of the hydrocarbons to carbon dioxide and water;
- b) A vapor recovery system which adsorbs or condenses or both at least 85% of the total uncontrolled organic material that would otherwise be emitted to the atmosphere; or
- c) Any other air pollution control equipment that is capable of reducing by at least 85% the uncontrolled organic material that would be otherwise emitted to the atmosphere and is approved by the Agency and approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.303 Fuel Combustion Emission Units

Sections 218.301 and 218.302 do not apply to fuel combustion emission units.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.304 Operations with Compliance Program

Sections 218.301 and 218.302 do not apply to any owner, operator, user, or manufacturer of paint, varnish, lacquer, coatings, or printing ink whose compliance program and project completion schedule, as required by 35 Ill. Adm. Code 201, provided for reducing organic material used in the process to 20% or less of total volume by May 30, 1977.

(Source: Amended at 50 Ill. Reg. _____, effective
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SUBPART H: PRINTING AND PUBLISHING

Section 218.401 Flexographic and Rotogravure Printing

- a) An owner or operator of a subject flexographic or rotogravure printing line must not apply at any time any coating or ink ~~if the~~ if the VOM content exceeds the

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limitation in subsection (a)(1) or (a)(2), as applicable. Compliance with this Section must be demonstrated through the applicable coating or ink analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.404(c). As an alternative to compliance with this subsection, a subject printing line may meet the requirements of subsection (b) or (c).

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- 1) For owners or operators of flexographic or rotogravure printing lines that do not print flexible packaging, either:
 - A) 40% VOM by volume of the coating and ink (excluding water and any compounds that are specifically exempted from the definition of VOM); or
 - ~~B) 20% percent~~ VOM by volume of the volatile content in the coating and ink;
- 2) For owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, either:
 - A) 0.8 kg VOM/kg (0.8 lbs VOM/lb) solids applied; or
 - B) 0.16 kg VOM/kg (0.16 lbs VOM/lb) inks and coatings applied.

b) Weighted Averaging Alternative

- 1) Before August 1, 2010, an owner or operator of a subject flexographic or rotogravure printing line must not apply coatings or inks on the subject printing line if the weighted average, by volume, VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in either subsection (a)(1)(A) (as determined by subsection (b)(1)(A)) or subsection (a)(1)(B)) (as determined by subsection (b)(1)(B)). Compliance with this subsection must be demonstrated through the applicable coating or ink analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.404(d).
 - A) The following equation must be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection

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(a)(1)(A) or (b)(2).

$$VOM_{(i)(A)} = \frac{\sum_{i=1}^n C_i L_i (V_{si} + V_{VOMi})}{\sum_{i=1}^n L_i (V_{si} + V_{VOMi})}$$

where:

- $VOM_{(i)(A)}$ = The weighted average VOM content in units of percent VOM by volume of all coatings and inks (excluding water and any compounds that are specifically exempted from the definition of VOM) used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings or inks or both as applied each day on a printing line;
- C_i = The VOM content in units of percent VOM by volume of each coating or ink as applied (excluding water and any compounds that are specifically exempted from the definition of VOM);
- L_i = The liquid volume of each coating or ink as applied in units of l (gal);
- V_{si} = The volume fraction of solids in each coating or ink as applied; and
- V_{VOMi} = The volume fraction of VOM in each coating or ink as applied.

- B) The following equation must be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection (a)(1)(B) or (b)(2).

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$$VOM_{(i)(B)} = \frac{\sum_{i=1}^n C_i L_i V_{VMi}}{\sum_{i=1}^n L_i V_{VMi}}$$

where:

- $VOM_{(i)(B)}$ = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings or inks or both as applied each day on each printing line;
- C_i = The VOM content in units of percent VOM by volume of the volatile matter in each coating or ink as applied;
- L_i = The liquid volume of each coating or ink as applied in units of l (gal) and
- V_{VMi} = The volume fraction of volatile matter in each coating or ink as applied.

- 2) An owner or operator of a subject flexographic or rotogravure printing line that does not print flexible packaging must not apply coatings or inks on the subject printing line if the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection (a)(1)(A) (calculated in compliance with the equation in subsection (b)(1)(A)) or (a)(1)(B) (calculated in compliance with the equation in subsection (b)(1)(B)). Compliance with this subsection (b)(2) must be demonstrated through the applicable coating or ink analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.404(d).
- 3) An owner or operator of a subject flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, must not apply coatings or inks on the subject printing line if the weighted average, by weight, VOM

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content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection (a)(2)(A) (calculated in compliance with the equation in subsection (b)(3)(A)) or subsection (a)(2)(B) (calculated in compliance with the equation in subsection (b)(3)(B)). Compliance with this subsection (b)(3) must be demonstrated through the applicable coating or ink analysis test methods and procedures in Section 218.105(a) and the recordkeeping and reporting requirements in Section 218.404(d).

- A) The following equation must be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection (a)(2)(A).

$$VOM_{(A)} = \frac{\sum_{i=1}^n C_i W_i}{\sum_{i=1}^n W_i}$$

where:

- $VOM_{(A)}$ = The weighted average VOM content in units of kg VOM per kg (lbs VOM per lb) solids of all coatings and inks used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings or inks or both as applied each day on a printing line;
- C_i = The VOM content in units of kg VOM per kg (lbs VOM per lb) solids of each coating or ink as applied;
- W_i = Weight of solids in each coating or ink, as applied, in units of kg (lb).

- B) The following equation must be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation in subsection (a)(2)(B).

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$$VOM_{(B)} = \frac{\sum_{i=1}^n C_i L_i}{\sum_{i=1}^n L_i}$$

where:

- VOM_(B) = The weighted average VOM content in units of kg (lbs) VOM per weight in kg (lbs) of all coatings or inks as applied each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings or inks or both as applied each day on each printing line;
- C_i = The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;
- L_i = The weight of each coating or ink, as applied, in units of kg (lb).

c) Capture System and Control Device Requirements

1) An owner or operator of a flexographic or rotogravure printing line that does not print flexible packaging and that is equipped with a capture system and control device must not operate the subject printing line unless the owner or operator meets the requirements in subsection (c)(1)(A)(i), (c)(1)(A)(ii), or (c)(1)(A)(iii) and subsections (c)(1)(B), (c)(4), and (c)(5):

A) One of:

- i) A carbon adsorption system that reduces the captured VOM emissions by at least 90% by weight;
- ii) An incineration system that reduces the captured VOM emissions by at least 90% by weight;

Weinert, Beate [BW24] May 4, 2026 12:14 AM
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Schwartz, J p [JS25] April 29, 2026 09:44 AM
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Weinert, Beate [BW26] May 4, 2026 12:15 AM
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Schwartz, J p [JS27] April 29, 2026 09:44 AM
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- iii) An alternative VOM emission reduction system that is demonstrated to have at least a 90% control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and
- B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:
- i) 75% where a publication rotogravure printing line is employed;
- ii) 65% where a packaging rotogravure printing line is employed; or
- iii) 60% percent where a flexographic printing line is employed.
- 2) An owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and that is equipped with a capture system and control device must not operate the subject printing line unless the owner or operator meets the requirements in subsections (c)(4) and (c)(5) and the capture system and control device provides an overall reduction in VOM emissions of at least:
- A) 65% in cases in which a subject printing line was first constructed at the subject source before March 14, 1995, and uses a control device that was first constructed at the subject source before January 1, 2010;
- B) 70% when a subject printing line was first constructed at the subject source before March 14, 1995, and uses a control device that was first constructed at the subject source on **and/or** after January 1, 2010;
- C) 75% when a subject printing line was first constructed at the subject source on **and/or** after March 14, 1995, and uses a control device that was first constructed at the subject source before January 1, 2010; or

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- D) 80% when a subject printing line was first constructed at the subject source on ~~and~~or after March 14, 1995, and uses a control device that was first constructed at the subject source on ~~and~~or after January 1, 2010.
- 3) The owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and non-flexible packaging on the same line and that is equipped with a control device is subject to the requirements of subsection (c)(1)(B) or (c)(2), whichever is more stringent, and subsections (c)(4) and (c)(5).
- 4) The control device is equipped with the applicable monitoring equipment in Section 218.105(d)(2) and, except under Section 218.105(d)(3), the monitoring equipment is installed, calibrated, operated, and maintained according to vendor specifications at all times the control device is in use.
- 5) The capture system and control device are operated at all times when the subject printing line is operating. The owner or operator must demonstrate compliance with this subsection by using the applicable capture system and control device test methods and procedures in Section 218.105(c) through 218.105(f) and by complying with the recordkeeping and reporting requirements in Section 218.404(e). The owner or operator of a printing line subject to the requirements in subsection (c)(1) that performed all testing necessary to demonstrate compliance with subsection (c)(1)(B) before August 1, 2010, is not required to retest under this subsection (c)(5). The owner or operator of a printing line subject to the requirements in subsection (c)(2) must perform testing in compliance with this subsection (c)(5), even if the owner or operator already performed the testing before August 1, 2010, unless the testing meets the conditions in subsections (c)(5)(A) through (E). Nothing in this subsection (c)(5), however, limits the Agency's ability to require that the owner or operator perform testing under 35 Ill. Adm. Code 201.282:
- A) On ~~and~~or after May 1, 2000, the owner or operator of the subject printing line performed all testing necessary to demonstrate compliance with subsection (c)(1)(B);
- B) The testing also demonstrated an overall control efficiency equal to or greater than the applicable control efficiency requirements in subsection (c)(2);

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- 5752 C) The owner or operator submitted the results of the tests to the
5753 Agency, and the Agency did not reject the tests;
5754
- 5755 D) The same capture system and control device subject to the tests in
5756 subsection (c)(5)(A) is still being used by the subject printing line;
5757 and
5758
- 5759 E) The owner or operator complies with all recordkeeping and
5760 reporting requirements in Section 218.404(e)(1)(B).
5761
- 5762 d) An owner or operator of subject flexographic or rotogravure printing lines that
5763 print flexible packaging or print flexible packaging and non-flexible packaging on
5764 the same line must not cause or allow VOM containing cleaning materials,
5765 including used cleaning towels, associated with the subject flexographic or
5766 rotogravure printing lines to be kept, stored, or disposed of in any manner other
5767 than in closed containers, or conveyed from one location to another in any manner
5768 other than in closed containers or pipes, except when specifically in use.
5769

5770 (Source: Amended at 50 Ill. Reg. _____, effective
5771 _____)
5772

Section 218.402 Applicability

- 5773
5774
- 5775 a) Except as otherwise provided in Section 218.401, the limitations of Section
5776 218.401 apply to all flexographic and rotogravure printing lines at a subject
5777 source. Sources with flexographic or rotogravure printing lines or both are
5778 subject sources if:
5779
- 5780 1) Total maximum theoretical emissions of VOM from all flexographic and
5781 rotogravure printing lines (including solvents used for cleanup operations
5782 associated with flexographic and rotogravure printing lines) at the source
5783 ever exceed 90.7 Mg (100 tons) per calendar year, and the flexographic
5784 and rotogravure printing lines (including solvents used for cleanup
5785 operations associated with flexographic and rotogravure printing lines) at
5786 the source are not limited to less than 90.7 Mg (100 tons) of VOM
5787 emissions per calendar year without air pollution control equipment
5788 through production or capacity limitations in a federally enforceable
5789 permit or a SIP revision; or
5790
- 5791 2) The flexographic and rotogravure printing lines (including solvents used
5792 for cleanup operations associated with flexographic and rotogravure

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printing lines) at the source have a combined potential to emit at least 22.7 Mg (25 tons) of VOM per year.

- b) The limitations of Section 218.401(d) apply to all owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, at a source where the combined emissions of VOM from all flexographic and rotogravure printing lines total at least 6.8 kg/day (15 lbs/day) (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) without air pollution control equipment.
- c) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet Section 218.301 or 218.302. Flexographic and rotogravure printing lines exempt from this Subpart are subject to Section 218.301 or 218.302. Rotogravure or flexographic equipment used for both roll printing and paper coating is subject to this Subpart.
- d) Once subject to the limitations of Section 218.401, a flexographic or rotogravure printing line is always subject to the limitations of Section 218.401.
- e) Any owner or operator of any flexographic or rotogravure printing line that is exempt from any of the limitations of Section 218.401 because of the criteria in this Section is subject to the recordkeeping and reporting requirements in Section 218.404(b) and (f), as applicable.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.403 Compliance Schedule

Every owner or operator of a flexographic or rotogravure printing line or both must comply with the applicable requirements of Section 218.401 and Section 218.404 according to the applicable compliance schedule or schedules in subsection (a), (b), (c), or (d):

- a) An owner or operator of a flexographic or rotogravure printing line that is exempt from the limitations of Section 218.401 because of the criteria in Section 218.402(a) must not operate that printing line on or after a date consistent with Section 218.106, unless the owner or operator has complied with and continues to comply with Section 218.404(b).

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- b) An owner or operator of a flexographic or rotogravure printing line complying under Section 218.401(a), (b)(2), or (b)(3) or Section 218.401(c)(1), (c)(2), or (c)(3) must not operate the printing line on or after August 1, 2010, unless the owner or operator has complied with and continues to comply with Section 218.401(a), (b)(2), or (b)(3) and Section 218.401(c), as applicable, and all applicable provisions in Section 218.404.
- c) An owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, must not operate the printing line on or after August 1, 2010, unless the owner or operator has complied with and continues to comply with Sections 218.401(d) and 218.404(g).
- d) An owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, and that is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) must not operate the printing line on or after August 1, 2010, unless the owner or operator has complied with and continues to comply with Sections 218.402(b) and 218.404(f).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.404 Recordkeeping and Reporting

- a) The VOM content of each coating and ink and the efficiency of each capture system and control device must be determined by the applicable test methods and procedures in Section 218.105 to establish the records required under this Section.
- b) Any owner or operator of a printing line which is exempted from any of the limitations of Section 218.401 because of the criteria in Section 218.402(a) must comply with the following:
- 1) By a date consistent with Section 218.106 or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, by January 1, 2012, the owner or operator of a flexographic or rotogravure printing line to which this subsection (b) applies must certify to the Agency that the flexographic and rotogravure printing line is exempt under Section 218.402(a). The certification must include:

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Schwartz, J p [JS29] April 29, 2026
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Weinert, Beate [BW30] May 4, 2026
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- A) A declaration that the flexographic and rotogravure printing line is exempt from the limitations of the criteria in Section 218.401 because of Section 218.402(a); and
- B) Calculations that demonstrate that the combined potential to emit of all flexographic and rotogravure printing lines at the source never equals or exceeds 22.7 Mg (25 tons) of VOM per year, and that total maximum theoretical emissions of VOM from all flexographic and rotogravure printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before applying capture systems and control devices. Total maximum theoretical emissions of VOM for a flexographic or rotogravure printing source is the sum of maximum theoretical emissions of VOM from each flexographic and rotogravure printing line at the source. The following equation must be used to calculate total maximum theoretical emissions of VOM per calendar year before applying capture systems and control devices for each flexographic and rotogravure printing line at the source:

$$E_p = A \times B + 1095 (C \times D \times F)$$

where:

- E_p = Total maximum theoretical emissions of VOM from one flexographic or rotogravure printing line in units of kg/year (lbs/year);
- A = Weight of VOM per volume of solids of the coating or ink with the highest VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of coating or ink solids;
- B = Total volume of solids for all coatings and inks that can potentially be applied each year on the printing line in units of l/year (gal/year). The method by which the owner or operator accurately calculated the volume of each coating and ink as applied and the amount that can potentially be applied each year on the printing line must be described in the certification to the Agency;

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- C = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/l (lbs VOM/gal);
- D = The greatest volume of cleanup material or solvent used in any eight-hour period;
- F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any eight-hour period.

- 2) On and after a date consistent with Section 218.106, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line referenced in this subsection must collect and record all of the following information each year for each printing line and maintain the information at the source for three years:
- A) The name and identification number of each coating and ink as applied on each printing line.
- B) The VOM content and the volume of each coating and ink as applied each year on each printing line.
- 3) On and after a date consistent with Section 218.106, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line exempted from the limitations of Section 218.401 because of the criteria in Section 218.402(a) must notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year before applying capture systems and control devices, or that the combined potential to emit of all flexographic and rotogravure printing lines at the source is at least 22.7 Mg (25 tons) of VOM in any calendar year, by sending a copy of the record to the Agency within 30 days after the exceedance occurs.
- c) Any owner or operator of a printing line subject to the limitations of Section 218.401 and complying under Section 218.401(a) must comply with the

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following:

- 1) By a date consistent with Section 218.106 or 218.403(b), as applicable, upon initial start-up of a new printing line, or upon changing the method of compliance for an existing subject printing line from Section 218.401(b) or 218.401(c) to Section 218.401(a), the owner or operator of a subject printing line must certify to the Agency that the printing line will be in compliance with Section 218.401(a) on and after a date consistent with Section 218.106 or 218.403(b), as applicable, or on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section 218.401(a)(2) must certify in compliance with this subsection (c)(1) even if the owner or operator of the line submitted a certification before January 1, 2010. The certification must include:
 - A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.
- 2) On and after a date consistent with Section 218.106 or 218.403(b), as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 and complying under Section 218.401(a) must collect and record all of the following information each day for each coating line and maintain the information at the source for three years:
 - A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.
- 3) On and after a date consistent with Section 218.106 or 218.403(b), as applicable, the owner or operator of a subject printing line must notify the Agency in the following instances:
 - A) Any record showing violation of Section 218.401(a) must be reported by sending a copy of the record to the Agency within 30 days after the violation.

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- 5969 B) At least 30 calendar days before changing the method of
5970 compliance with Section 218.401 from Section 218.401(a) to
5971 Section 218.401(b) or (c), the owner or operator must comply with
5972 all requirements of subsection (d)(1) or (e)(1), respectively. Upon
5973 changing the method of compliance with Section 218.401 from
5974 Section 218.401(a) to Section 218.401(b) or (c), the owner or
5975 operator must comply with all requirements of subsection (d) or
5976 (e), respectively.
5977
- 5978 d) Any owner or operator of a printing line subject to the limitations of Section
5979 218.401 and complying under Section 218.401(b) must comply with the
5980 following:
5981
- 5982 1) By a date consistent with Section 218.106 or 218.403(b) , as applicable,
5983 upon initial start-up of a new printing line, or upon changing the method
5984 of compliance for an existing subject printing line from Section
5985 218.401(a) or (c) to Section 218.401(b), the owner or operator of the
5986 subject printing line must certify to the Agency that the printing line will
5987 be in compliance with Section 218.401(b) on and after a date consistent
5988 with Section 218.106 or 218.403(b), as applicable, or on and after the
5989 initial start-up date. The owner or operator of a printing line subject to the
5990 requirements in Section 218.401(b)(3) must certify in
5991 compliance with this subsection (d)(1) even if the owner or
5992 operator of the line submitted a certification before January 1, 2010. The
5993 certification must include:
5994
- 5995 A) The name and identification number of each printing line which
5996 will comply under Section 218.401(b).
5997
- 5998 B) The name and identification number of each coating and ink
5999 available for use on each printing line.
6000
- 6001 C) The VOM content of each coating and ink as applied each day on
6002 each printing line.
6003
- 6004 D) The method by which the owner or operator will accurately
6005 calculate the volume or weight of solids, as applicable, of each
6006 coating and ink as applied each day on each printing line, and on
6007 and after January 1, 2012, the weight of each coating or ink.
6008
- 6009 E) The method by which the owner or operator will create and

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- maintain records each day as required in subsection (d)(2).
- F) An example of the format in which the records required in subsection (d)(2) will be kept.
- 2) On and after a date consistent with Section 218.106 or 218.403(b), as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 and complying under Section 218.401(b) must collect and record all of the following information each day for each printing line and maintain the information at the source for three years:
- A) The name and identification number of each coating and ink as applied on each printing line.
- B) The VOM content and the volume or weight of solids, as applicable, of each coating and ink as applied each day on each printing line, and on and after January 1, 2012, the weight of each coating or ink.
- C) The daily-weighted average VOM content of all coatings and inks as applied on each printing line.
- 3) On and after a date consistent with Section 218.106 or 218.403(b), as applicable, the owner or operator of a subject printing line must notify the Agency in the following instances:
- A) Any record showing violation of Section 218.401(b) must be reported by sending a copy of the record to the Agency within 30 days after the violation.
- B) At least 30 calendar days before changing the method of compliance with Section 218.401 from Section 218.401(b) to Section 218.401(a) or (c), the owner or operator must comply with all requirements of subsection (c)(1) or (e)(1), respectively. Upon changing the method of compliance with Section 218.401 ~~from~~ from Section 218.401(b) to Section 218.401(a) or (c), the owner or operator must comply with all requirements of subsection (c) or (e), respectively.
- e) Any owner or operator of a printing line subject to the limitations of Section

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218.401 and complying under Section 218.401(c) must comply with the following:

- 1) By a date consistent with Section 218.106 or 218.403(b), as applicable, upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from Section 218.401(a) or (b) to Section 218.401(c), the owner or operator of the subject printing line must either:
 - ~~A)~~ A) Perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with Section 218.401(c) on and after a date consistent with Section 218.106 or 218.403(b), as applicable, or on and after the initial start-up date; or
 - B) If not required to perform testing under Section 218.401(c)(5), submit a certification to the Agency that includes:
 - i) A declaration that the owner or operator is not required to perform testing under Section 218.401(c)(5);
 - ii) The dates that testing demonstrating compliance with Section 218.401(c)(2) was performed; and
 - iii) The dates that the testing results were submitted to the Agency.
- 2) On and after a date consistent with Section 218.106 or 218.403(b), as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 and complying under Section 218.401(c) must collect and record all of the following information each day for each printing line and maintain the information at the facility for three years:
 - A) Control device monitoring data.
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated printing line.
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine

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- 6092 maintenance performed, including dates and duration of any
6093 outages.
6094
- 6095 3) On and after a date consistent with Section 218.106 or 218.403(b), as
6096 applicable, the owner or operator of a subject printing line must notify the
6097 Agency in the following instances:
6098
- 6099 A) Any record showing violation of Section 218.401(c) must be
6100 reported by sending a copy of the record to the Agency within 30
6101 days after the violation.
6102
- 6103 B) At least 30 calendar days before changing the method of
6104 compliance with Section 218.401 from Section 218.401(c) to
6105 Section 218.401(a) or (b), the owner or operator must comply with
6106 all requirements of subsection (c)(1) or (d)(1), respectively. Upon
6107 changing the method of compliance with Section 218.401 from
6108 Section 218.401(c) to Section 218.401(a) or (b), the owner or
6109 operator must comply with all requirements of subsection (c) or
6110 (d), respectively.
6111
- 6112 4) By August 1, 2010, or upon initial start-up of a new printing line,
6113 whichever is later, the owner or operator of a printing line subject to the
6114 requirements in Section 218.401(c)(2) or (c)(3) must submit to the Agency
6115 records documenting the date the printing line was constructed at the
6116 subject source and the date the control device for the printing line was
6117 constructed at the subject source.
6118
- 6119 f) Any owner or operator of a flexographic or rotogravure printing line that prints
6120 flexible packaging, or that prints flexible packaging and non-flexible packaging
6121 on the same line, and that is exempt from the limitations of Section 218.401(d)
6122 because of the criteria in Section 218.402(b) must:
6123
- 6124 1) By August 1, 2010, or upon initial start-up of a new printing line,
6125 whichever is later, and upon modification of a printing line, submit a
6126 certification to the Agency that includes:
6127
- 6128 A) A declaration that the source is exempt from the requirements in
6129 Section 218.401(d) because of the criteria in Section 218.402(b);
6130
- 6131 B) Calculations that demonstrate that combined emissions of VOM
6132 from all flexographic and rotogravure printing lines (including inks

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- 6133 and solvents used for cleanup operations associated with the
6134 printing lines) at the source never equal or exceed 6.8 kg/day (15
6135 lbs/day) without air pollution control equipment;
6136
- 6137 2) On and after January 1, 2012, collect and record the following information
6138 each day for each subject printing line:
6139
- 6140 A) The name and identification number of each coating, ink, and
6141 cleaning solvent as applied each day on each printing line;
6142
- 6143 B) The VOM content of each coating and ink (measured in weight of
6144 VOM per volume of coating or ink or in weight of VOM per
6145 weight of coating or ink) as applied each day on each printing line,
6146 and the volume or weight of each coating or ink, as applicable;
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- 6148 C) The weight of VOM per volume of each cleaning solvent and the
6149 volume of each cleaning solvent used each day on each printing
6150 line;
6151
- 6152 D) The total daily emissions of VOM from each printing line
6153 (including solvents used for cleanup operations associated with the
6154 printing line) and the sum of daily emissions from all subject
6155 printing lines at the source; and
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- 6157 3) Notify the Agency in writing if the combined emissions of VOM from all
6158 flexographic and rotogravure printing lines (including inks and solvents
6159 used for cleanup operations associated with the flexographic and
6160 rotogravure lines) at the source ever equal or exceed 6.8 kg/day (15
6161 lbs/day) without air pollution control equipment within 30 days after the
6162 event occurs
6163
- 6164 g) Any owner or operator of a printing line subject to the limitations of Section
6165 218.401(d) must:
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- 6167 1) By August 1, 2010, or upon initial start-up of a new printing line,
6168 whichever is later, submit a certification to the Agency describing the
6169 practices and procedures that the owner or operator will follow to ensure
6170 compliance with the limitations of Section 218.401(d); and
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- 2) Notify the Agency of any violation of Section 218.401(d) by sending a description of the violation and copies of records documenting the violations to the Agency within 30 days after the violation.

- h) All records required by subsections (f) and (g) must be retained for at least three years and must be made available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.405 Lithographic Printing: Applicability

- a) Every owner or operator of lithographic printing lines is subject to the recordkeeping and reporting requirements in Section 218.411.
- b) Specific requirements and exclusions
- 1) The requirements in Section 218.407(a)(1)(B) through (a)(1)(E) and 218.407(b) and all applicable provisions in Sections 218.409 through 218.411 apply to all owners or operators of heatset web offset lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever exceed 45.5 kg/day (100 lbs/day), calculated in compliance with Section 218.411(a)(2)(B), before applying capture systems and control devices;
- 2) The requirements in Section 218.407(a)(1)(A) and (a)(2) through (a)(5) and all applicable provisions in Sections 218.409 through 218.411 apply to all owners or operators of lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever equal or exceed 6.8 kg/day (15 lbs/day), calculated in compliance with Section 218.411(a)(1)(B), before applying capture systems and control devices;
- 3) Despite subsection (b)(2), at sources where the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) are at least 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), calculated in compliance with Section 218.411(a)(1)(B), before applying capture systems and control devices, the following exclusions

Schwartz, J p [J531] April 29, 2026
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apply unless the owner or operator of the source certifies under Section 218.411(f)(1)(B) that the source will not use any of the exclusions:

- A) Section 218.407(a)(1)(A), (a)(2), and (a)(3) do not apply to lithographic printing lines with a total fountain solution reservoir of less than 3.8 l (1 gal);
- B) Section 218.407(a)(3) does not apply to sheet-fed offset lithographic printing lines with maximum sheet size of 11x17 inches or smaller;
- C) Section 218.407(a)(4) does not apply to up to a total of 416.3 l (110 gal) per year of cleaning materials used on all lithographic printing lines at the source; and
- D) Section 218.407(a)(4)(A)(i) does not apply to lithographic printing lines at the source. Instead, Section 218.407(a)(4)(A)(ii) applies to those lines.

- c) If a lithographic printing line at a source is or becomes subject to at least one of the limitations in Section 218.407, the lithographic printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines

- a) An owner or operator of lithographic printing lines subject to the requirements of this Subpart must not:
 - 1) Cause or allow the operation of any heatset web offset lithographic printing line unless:
 - A) The total VOM content in the as-applied fountain solution meets one of the following conditions:
 - i) 1.6% or less, by weight;
 - ii) 3% or less, by weight, and the temperature of the fountain

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solution is maintained below 15.6 °C (60 °F), measured at the reservoir or the fountain tray; or

- iii) 5% or less, by weight, and the as-applied fountain solution contains no alcohol;

- B) The air pressure in the dryer is maintained lower than the air pressure of the press room so that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;

- C) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced:

- i) By at least 90%, by weight, for afterburners first constructed at the source before January 1, 2010;

- ~~i)~~ ii) By at least 95%, by weight, for afterburners first constructed at the source on or after January 1, 2010; or

- iii) To a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);

- D) The afterburner complies with all monitoring provisions in Section 218.410(c); and

- E) The afterburner is operated at all times when the printing line is operating, except the afterburner may be shut down between November 1 and April 1 under Section 218.107.

- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is 5% or less, by weight, and the as-applied fountain solution contains no alcohol.

- 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:

- A) The VOM content of the as-applied fountain solution is 5% or less, by weight; or

Schwartz, J p [JS32] April 29, 2026
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• Letter C) paragraph above is too indented and second/third lines need to align properly.
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Schwartz, J p [JS33] April 29, 2026
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- B) The VOM content of the as-applied fountain solution is 8.5% or less, by weight, and the temperature of the fountain solution is maintained below 15.6 °C (60 °F), measured at the reservoir or the fountain tray.
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
- A) The VOM content of the as-used cleaning solution is less than or equal to:
- i) 30%, by weight; or
- ii) On and after August 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 218.405(b)(3) and do not certify under Section 218.411(f)(1)(B) that the source will not make use of any of the exclusions in Section 218.405(b)(3), 70%, by weight; or
- B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20 °C (68 °F).
- 5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored, or disposed of in any manner other than in closed containers, except when specifically in use.
- b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of subsection (a)(1)(C) may use a control device other than an afterburner, if:
- 1) The control device reduces VOM emissions from the press dryer exhausts as follows:
- A) By at least 90%, by weight, for control devices first constructed at the source before January 1, 2010;
- B) By at least 95%, by weight, for control devices first constructed at the source on or after January 1, 2010; or

Schwartz, J p [JS34] April 29, 2026
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Weinert, Beate [BW35] May 4, 2026
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- C) To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
- 2) The owner or operator submits to the Agency a plan detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
- 3) The use of the control device with testing, monitoring, and recordkeeping in compliance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.409 Testing for Lithographic Printing

- a) Testing to demonstrate compliance with the requirements of Section 218.407 must be conducted by January 1, 2012, unless the testing was conducted on or after May 9, 1995, the test was conducted under a test method approved by USEPA, the current operating conditions and operating capacity of the press are consistent with the operation of the press during the testing, and the test results were submitted to the Agency. If an owner or operator of a printing line performed the testing before May 9, 1995, the owner or operator must either retest under this Section or submit to the Agency all information necessary to demonstrate that the previous testing was conducted under a test method approved by USEPA, and that the current operating conditions and operating capacity of the press are consistent with the operation of the press during previous testing. Testing must then be conducted by the owner or operator within 90 days after a request by the Agency or as otherwise specified in this Subpart. The testing must be conducted at the expense of the owner or operator, and the owner or operator must notify the Agency in writing 30 days before conducting the testing to allow the Agency to be present during the testing.
- b) The methods and procedures of Section 218.105(d) and (f) must be used for testing to demonstrate compliance with the requirements of Section 218.407(a)(1)(C) or (b)(1), as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference at Section 218.112. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust must be located between the dryer exhaust and the control device

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inlet, and between the outlet of the control device and the exhaust to the atmosphere;

- 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60. Appendix A-1, incorporated by reference at Section 218.112;
- 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60. Appendix A-7, incorporated by reference at Section 218.112. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv or less, as carbon; and
 - C) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest must be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;
- 4) Despite the criteria or requirements in Method 25 that specify a minimum probe temperature of 129 °C (265 °F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7 °C (350 °F);
- 5) During testing, the printing lines must be operated at representative

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operating conditions and flow rates; and

- 6) During testing, an air flow direction indicating device, such as a smoke stick, must be used to demonstrate 100% emissions capture efficiency for the dryer in compliance with Section 218.407(a)(1)(B).
- c) Testing to demonstrate compliance with the VOM content limitations in Section 218.407(a)(1)(A), (a)(2), (a)(3), and (a)(4)(A), and to determine the VOM content of fountain solutions, fountain solution additives, cleaning solvents, cleaning solutions, and inks (under Section 218.411(a)(1)(B) or (a)(2)(B), as applicable), must be conducted upon request of the Agency or as otherwise specified in this Subpart, as follows:
- 1) The applicable test methods and procedures in Section 218.105(a) must be used; however, Method 24, incorporated by reference at Section 218.112, must be used to demonstrate compliance; or
- 2) The manufacturer's specifications for VOM content for fountain solution additives, cleaning solvents, and inks may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in compliance with methods in Section 218.105(a); however, Method 24 must be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 218.407(b) must be conducted under the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions under Section 218.407(b).
- e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions must be conducted in compliance with the applicable methods and procedures in Section 218.110.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature
- 1) The owner or operator of any lithographic printing lines relying on the temperature of the fountain solution to demonstrate compliance must

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install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.

- 2) The temperature monitor must be capable of reading with an accuracy of 1 °C or 2 °F and must be attached to an automatic continuous recording device, such as a strip chart, recorder, or computer, with at least the same accuracy that is installed, calibrated, and maintained in compliance with the manufacturer's specifications. If the automatic continuous recording device malfunctions, the owner or operator must record the temperature of the fountain solution at least once every two operating hours. The automatic continuous recording device must be repaired or replaced as soon as practicable.

- b) Fountain Solution VOM Content. The owner or operator of any lithographic printing lines subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) must:

- 1) For a fountain solution to which VOM is not added automatically:

- A) Maintain records of the VOM content of the fountain solution in compliance with Section 218.411(d)(2)(C); or
- B) Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:
- i) With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 0.5%. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in compliance with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per eight-hour shift or once per batch of fountain solution prepared or modified, whichever is longer; or
- ii) With a conductivity meter, if it is demonstrated that a refractometer and hydrometer cannot distinguish between

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compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing 95%, 100%, and 105% of the applicable VOM content limit. The conductivity meter reading for the fountain solution must be referenced to the conductivity of the incoming water. A standard solution must be used to calibrate the conductivity meter for the type of VOM used in the fountain solution, in compliance with manufacturer's specifications;

- 2) For fountain solutions to which VOM is added at the source with automatic feed equipment, determine the VOM content of the as-applied fountain solution based on the setting of the automatic feed equipment which makes additions of VOM up to a pre-set level. Records of the VOM content of the fountain solution must be retained in compliance with Section 218.411(d)(2)(D). The equipment used to make automatic additions must be installed, calibrated, operated, and maintained in compliance with manufacturer's specifications.

- c) Afterburners for Heatset Web Offset Lithographic Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to Section 218.407(a)(1)(C) must:

- 1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of 3 °C or 5 °F on the afterburner in compliance with Section 218.105(d)(2) and the manufacturer's specifications. Monitoring must be performed at all times when the afterburner is operating; and
- 2) Install, calibrate, operate, and maintain, in compliance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

- d) Other Control Devices for Heatset Web Offset Lithographic Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to this Subpart must install, maintain, calibrate, and operate the monitoring equipment

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under the owner's or operator's plan approved by the Agency and USEPA under Section 218.407(b).

e) Cleaning Solution

1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 218.407(a)(4)(A) must:

A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):

i) Install, operate, maintain, and calibrate the automatic feed equipment in compliance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and

ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.407(a)(4)(A);

B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the use of cleaning solvent and water (or other non-VOM) under Section 218.411(e)(2).

2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.407(a)(4)(B) must keep records for the cleaning solutions used on the lines under Section 218.411(e)(2)(C).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.411 Recordkeeping and Reporting for Lithographic Printing

~~a)~~

Weinert, Beate [BW36] May 4, 2026
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Schwartz, J p [JS37] April 29, 2026
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a) Exempt Units on and after August 1, 2010

- 1) Lithographic Printing Lines Exempt under Section 218.405(b)(2). By August 1, 2010, or upon initial start-up of a new lithographic printing line, whichever is later, and upon modification of a lithographic printing line, an owner or operator of lithographic printing lines exempt from Section 218.407 because of the criteria in Section 218.405(b)(2) must submit a certification to the Agency that includes the information in either subsections (a)(1)(A), (a)(1)(B), and (a)(1)(D) or subsections (a)(1)(A) and (a)(1)(C), as applicable. An owner or operator complying with subsection (a)(1)(B) must also comply with subsection (a)(1)(E). An owner or operator complying with subsection (a)(1)(C) must also comply with subsection (a)(1)(F):
 - A) A declaration that the source is exempt from Section 218.407 because of the criteria in Section 218.405(b)(2).
 - B) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source are less than 6.8 kg/day (15 lbs/day) before using capture systems and control devices, as follows:

Weinert, Beate [BW38] May 4, 2026
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[See above comment](#)

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- i) To calculate daily emissions of VOM, the owner or operator must determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were operating;
 - ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the test methods and procedures in Section 218.409(c) must be used;
 - iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 must be used to calculate emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 must be used to calculate emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, must be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and
 - iv) To determine VOM emissions from cleaning solutions used on lithographic printing lines at the source, an emission adjustment factor of 0.50 must be used to calculate emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is demonstrated to be less than 10 mmHg measured at 20 °C (68 °F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of at least 10 mmHg measured at 20 °C (68 °F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used.
- C) As an alternative to the calculations in subsection (a)(1)(B), a statement that the source uses less than the amount of material in subsection (a)(1)(C)(i) or (ii), as applicable, during each calendar

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month. A source may determine that it emits less than 6.8 kg/day (15 lbs/day) of VOM based on compliance with the material use limitations. If the source exceeds this amount of material use in a calendar month, the owner or operator must, within 15 days after the end of that month, complete the emissions calculations of subsection (a)(1)(B) to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection (a)(1)(C) as an alternative to the calculations in subsection (a)(1)(B). If a source has both heatset web offset and either nonheatset web offset or sheetfed lithographic printing operations, or has all three types of printing operations, the owner or operator may not use this alternative and must use the calculations in subsection (a)(1)(B).

- i) The sum of all sheetfed and nonheatset web offset lithographic printing operations at the source: 242.3 l (64 gal) of cleaning solvent and fountain solution additives, combined; or
- ii) The sum of all heatset web offset lithographic printing operations at the source: 204.1 kg (450 lbs) of ink, cleaning solvent, and fountain solution additives, combined.

D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all tests have been properly conducted in compliance with Section 218.409(c)(1).

E) For sources complying with subsection (a)(1)(B), notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source are ever at least 6.8 kg/day (15 lbs/day) before using capture systems and control devices, within 30 days after the event occurs. If emissions of VOM at the source are at least 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), the source must comply with subsection (a)(2).

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- F) For sources complying with subsection (a)(1)(C), comply with the following:
- i) Maintain material use records showing that the source uses less than the amount of material in subsections (a)(1)(C)(i) and (a)(1)(C)(ii) during each calendar month, or, if the source exceeds the material use limitations, records showing that the source exceeded the limitations but emitted less than 6.8 kg/day (15 lbs/day) of VOM, and provide the records to the Agency upon request. The records must include the name, identification number, and VOM content of each cleaning solvent and fountain solution additive used per calendar month, the volume of each cleaning solvent and fountain solution additive used per calendar month for each sheetfed and nonheatset web offset lithographic printing operation, and the weight of each cleaning solvent, ink, and fountain solution additive used per calendar month for each heatset web offset lithographic printing operation; and
 - ii) Notify the Agency in writing if the source exceeds the material use limitations for six consecutive calendar months, or if the source changes its method of compliance from subsection (a)(1)(C) to subsection (a)(1)(B), within 30 days after the event occurs.
- 2) Heatset web offset lithographic printing lines exempt under Section 218.405(b)(1) but not exempt under Section 218.405(b)(2). By August 1, 2010, or upon initial start-up of a new heatset web offset lithographic printing line, whichever is later, and upon modification of a heatset web offset lithographic printing line, an owner or operator of heatset web offset lithographic printing lines that are exempt from Section 218.407 under Section 218.405(b)(1) but not exempt under Section 218.405(b)(2) must submit a certification to the Agency that includes the information in subsections (a)(2)(A) through (a)(2)(C). The owner or operator must also comply with subsection (a)(2)(D):
- A) A declaration that the source is exempt from the control requirements in Section 218.407 because of the criteria in Section 218.405(b)(1), but is not exempt under the criteria in Section 218.405(b)(2).

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- 6729 B) Calculations that demonstrate that combined emissions of VOM
- 6730 from all lithographic printing lines (including inks, fountain
- 6731 solutions, and solvents used for cleanup operations associated with
- 6732 the lithographic printing lines) at the source are less than 45.5
- 6733 kg/day (100 lbs/day) before using capture systems and control
- 6734 devices, as follows (the following methodology must also be used
- 6735 to calculate whether a source exceeds 45.5 kg/day (100 lbs/day) to
- 6736 determine eligibility for the exclusions in Section 218.415(c)(3), in
- 6737 compliance with Sections 218.411(f)(2)(A)(i):
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- 6739 i) To calculate daily emissions of VOM, the owner or
- 6740 operator must determine the monthly emissions of VOM
- 6741 from all lithographic printing lines at the source (including
- 6742 solvents used for cleanup operations associated with the
- 6743 lithographic printing lines) and divide this amount by the
- 6744 number of days during that calendar month that
- 6745 lithographic printing lines at the source were operating;
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- 6747 ii) To determine the VOM content of the inks, fountain
- 6748 solution additives, and cleaning solvents, the test methods
- 6749 and procedures in Section 218.409(c) must be used;
- 6750
- 6751 iii) To determine VOM emissions from inks used on
- 6752 lithographic printing lines at the source, an ink emission
- 6753 adjustment factor of 0.05 must be used to calculate
- 6754 emissions from all non-heatset inks except when using an
- 6755 impervious substrate, and a factor of 0.80 must be used to
- 6756 calculate emissions from all heatset inks to account for
- 6757 VOM retention in the substrate except when using an
- 6758 impervious substrate. For impervious substrates such as
- 6759 metal or plastic, no emission adjustment factor is used.
- 6760 The VOM content of the ink, as used, must be multiplied
- 6761 by this factor to determine the amount of VOM emissions
- 6762 from the use of ink on the printing lines; and
- 6763
- 6764 iv) To determine VOM emissions from cleaning solvents used
- 6765 on lithographic printing lines at the source, an emission
- 6766 adjustment factor of 0.50 must be used to calculate
- 6767 emissions from cleaning solution in shop towels, if the
- 6768 VOM composite vapor pressure of the cleaning solution is

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demonstrated to be less than 10 mmHg measured at 20 °C (68 °F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20 °C (68 °F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used.

- C) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all tests have been properly conducted in compliance with Section 218.409(c)(1).
- D) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day) before using capture systems and control devices, within 30 days after the event occurs.

- b) Unless complying with subsections (a)(1)(C) and (a)(1)(F), an owner or operator of lithographic printing lines subject to subsection (a) must collect and record the information in either subsection (b)(1) or (b)(2) for all lithographic printing lines at the source:

- 1) Standard recordkeeping, including:

- A) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - B) A daily record which shows whether a lithographic printing line at the source was operating on that day;
 - C) The VOM content and the volume of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the

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source, calculated each month;

- E) The VOM emissions in lbs/day for the month, calculated in compliance with subsection (a)(1)(B) or (a)(2)(B), as applicable;

2) Purchase and inventory recordkeeping, including:

- A) The name, identification, and VOM content of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- B) Inventory records from the beginning and end of each month indicating the total volume of each fountain solution additive, lithographic ink, and cleaning solvent to be used on any lithographic printing line at the source;
- C) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
- D) A daily record which shows whether a lithographic printing line at the source was in operation on that day;
- E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained under subsections (b)(2)(A), (b)(2)(B), and (b)(2)(C);
- F) The VOM emissions in lbs/day for the month, calculated in compliance with subsection (a)(1)(B) or (a)(2)(B), as applicable.

- c) An owner or operator of a heatset web offset lithographic printing line subject to the control requirements of Section 218.407(a)(1)(C) or (b)(1) must comply with the following:

- 1) By August 1, 2010, upon initial start-up of a new printing line, and upon initial start-up of a new control device for a heatset web offset printing line, submit a certification to the Agency that includes:

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- A) An identification of each heatset web offset lithographic printing line at the source;
 - B) A declaration that each heatset web offset lithographic printing line is in compliance with Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E) or (b), as appropriate;
 - C) The type of afterburner or other approved control device used to comply with Section 218.407(a)(1)(C) or (b)(1) and the date that the device was first constructed at the source;
 - D) The control requirements in Section 218.407(a)(1)(C) or (b)(1) with which the lithographic printing line is complying;
 - E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.407(a)(1)(C) or (b)(1), as applicable; and
 - F) A declaration that the monitoring equipment required under Section 218.407(a)(1)(D) or (b), as applicable, has been properly installed and calibrated according to manufacturer's specifications.
- 2) If testing of the afterburner or other approved control device is conducted under Section 218.409(b), the owner or operator must, within 90 days after conducting the testing, submit a copy of all test results to the Agency and a certification to the Agency that includes:
- A) A declaration that all tests and calculations necessary to demonstrate whether the lithographic printing lines are in compliance with Section 218.407(a)(1)(C) or (b)(1), as applicable, have been properly performed;
 - B) A statement whether the lithographic printing lines are or are not in compliance with Section 218.407(a)(1)(C) or (b)(1), as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in compliance with Section 218.410(c) or (d), as applicable.

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- 6892 3) Except under subsection (c)(3)(D)(ii), collect and record daily the
6893 following information for each heatset web offset lithographic printing
6894 line subject to Section 218.407(a)(1)(C) or (b)(1):
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- 6896 A) Afterburner or other approved control device monitoring data in
6897 compliance with Section 218.410(c) or (d), as applicable;
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- 6899 B) A log of operating time for the afterburner or other approved
6900 control device, monitoring equipment, and the associated printing
6901 line;
6902
- 6903 C) A maintenance log for the afterburner or other approved control
6904 device and monitoring equipment detailing all routine and
6905 non-routine maintenance performed, including dates and duration
6906 of any outages; and
6907
- 6908 D) A log detailing checks on the air flow direction or air pressure of
6909 the dryer and press room at least once per calendar month while
6910 the line is operating to ensure compliance with of Section
6911 218.407(a)(1)(B).
6912
- 6913 4) Notify the Agency in writing of any violation of Section 218.407(a)(1)(C)
6914 or (b)(1) within 30 days after the occurrence of the violation. The
6915 notification must include a copy of all records of the violation.
6916
- 6917 5) If changing its method of compliance between subsections (a)(1)(C) and
6918 (b) of Section 218.407, certify compliance for the new method of
6919 compliance in compliance with subsection (c)(1) at least 30 days before
6920 making the change, and perform all tests and calculations necessary to
6921 demonstrate that the printing lines will be in compliance with Section
6922 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E), or Section
6923 218.407(b) , as applicable.
6924
- 6925 d) An owner or operator of a lithographic printing line subject to Section
6926 218.407(a)(1)(A), (a)(2), or (a)(3) must:
6927
- 6928 1) By August 1, 2010, and upon initial start-up of a new lithographic printing
6929 line, certify to the Agency that fountain solutions used on each
6930 lithographic printing line will be in compliance with the applicable VOM
6931 content limitation. The certification must include:
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- 6933 A) Identification of each lithographic printing line at the source by
6934 type, e.g., heatset web offset, non-heatset web offset, or sheet-fed
6935 offset;
6936
- 6937 B) Identification of each centralized fountain solution reservoir and
6938 each lithographic printing line that it serves;
6939
- 6940 C) A statement that the fountain solution will comply with the VOM
6941 content limitations in Section 218.407(a)(1)(A), (a)(2), or (a)(3), as
6942 applicable;
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- 6944 D) Initial documentation that each type of fountain solution will
6945 comply with the applicable VOM content limitations, including
6946 copies of manufacturer's specifications, formulation data and
6947 calculations, and any test results;
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- 6949 E) Identification of the methods that will be used to demonstrate
6950 continuing compliance with the applicable limitation, e.g., a
6951 refractometer, hydrometer, conductivity meter, or recordkeeping
6952 procedures with detailed description of the compliance
6953 methodology; and
6954
- 6955 F) A sample of the records that will be kept under subsection (d)(2).
6956
- 6957 2) Collect and record for each fountain solution:
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- 6959 A) The name and identification of each batch of fountain solution
6960 prepared for use on one or more lithographic printing lines, the
6961 lithographic printing lines or centralized reservoir using the batch
6962 of fountain solution, and the applicable VOM content limitation
6963 for the batch;
6964
- 6965 B) If an owner or operator uses a hydrometer, refractometer, or
6966 conductivity meter under Section 218.410(b)(1)(B) to demonstrate
6967 compliance with the applicable VOM content limit in Section
6968 218.407(a)(1)(A), (a)(2), or (a)(3):
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- 6970 i) The date and time of preparation, and each subsequent
6971 modification, of the batch;
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- 6973 ii) The results of each measurement taken in compliance with

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Section 218.410(b);

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- iii) Documentation of the periodic calibration of the meter in accordance with the manufacturer's specifications, including date and time of calibration, personnel conducting the calibration, identity of standard solution, and resultant reading; and
 - iv) Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting the adjustment, and results;
- C) If the VOM content of the fountain solution is determined under Section 218.410(b)(1)(A), for each batch of as-applied fountain solution:
- i) Date and time of preparation and each subsequent modification of the batch;
 - ii) Volume or weight, as applicable, and VOM content of each component used in, or subsequently added to, the fountain solution batch;
 - iii) Calculated VOM content of the as-applied fountain solution; and
 - iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 218.407(a)(1)(A), (a)(2) and (a)(3), as specified in the source's operating permit;
- D) If the VOM content of the fountain solution is determined under Section 218.410(b)(2), for each setting:
- i) VOM content limit corresponding to each setting;
 - ii) Date and time of initial setting and each subsequent setting;
 - iii) Documentation of the periodic calibration of the automatic feed equipment in compliance with the manufacturer's specifications; and

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- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 218.407(a)(1)(A), (a)(2), and (a)(3), as specified in the source's operating permit;
 - E) If the owner or operator relies on the temperature of the fountain solution to comply with Section 218.407(a)(1)(A)(ii) or (a)(3)(B):
 - i) The temperature of the fountain solution at each printing line, as monitored in compliance with Section 218.410(a); and
 - ii) A maintenance log for the temperature monitoring devices and automatic continuous temperature recorders detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
 - 3) Notify the Agency in writing of any violation of Section 218.407 within 30 days after the violation. The notification must include a copy of all records of the violation.
 - e) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to Section 218.407 must:
 - 1) By August 1, 2010, and upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, other than those excluded under Section 218.405(b)(3)(C), and the handling of all cleaning materials will be in compliance with Section 218.407(a)(4)(A) or (a)(4)(B) and (a)(5). The certification must also include:
 - A) A statement that the cleaning solution will comply with the limitations in Section 218.407(a)(4);
 - B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - C) A sample of the records that will be kept under subsection (e)(2); and
 - D) A description of the practices that ensure that VOM-containing

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cleaning materials are kept in closed containers;

- 2) Collect and record the following information for each cleaning solution used on each lithographic printing line:
- A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) and that is prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.409(c);
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A), and that is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;

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- iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.409(c);
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in compliance with methods in Section 218.105(a);
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.407(a)(4)(B):
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in compliance with Section 218.409(e). For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if the manufacturer's specifications are based on results of tests conducted in compliance with methods in Sections 218.105(a) and 218.110;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in compliance with Section 218.409(e). For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM

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composite partial vapor pressure may be used if the manufacturer's specifications are based on results of tests conducted in compliance with methods in Sections 218.105(a) and 218.110;

- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any; and
- 3) Notify the Agency in writing of any violation of Section 218.407 within 30 days after the violation. The notification must include a copy of all records of the violation.
- f) The owner or operator of lithographic printing lines subject to at least one of the exclusions in Section 218.405(b)(3) must:
- 1) By August 1, 2010, or upon initial start-up of a new lithographic printing line that is subject to at least one of the exclusions in Section 218.405(b)(3), whichever is later, submit a certification to the Agency that includes either:
- A) A declaration that the source is subject to at least one of the exclusions in Section 218.405(b)(3) and a statement indicating which exclusions apply to the source; or
- B) A declaration that the source will not use any of the exclusions in Section 218.405(b)(3);
- 2) Unless the source has certified in compliance with subsection (f)(1)(B) that it will not use any of the exclusions in Section 218.405(b)(3):
- A) Collect and record the following information for all lithographic printing lines at the source:
- i) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before using

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capture systems and control devices, determined in compliance with the calculations in subsection (a)(2)(B); and

- ii) The name, identification, and volume of all cleaning materials used per calendar month on lithographic printing lines at the source that do not comply with the cleaning material limitations in Section 218.407(a)(4);

- B) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day) before using capture systems and control devices, within 30 days after the event occurs;

- 3) If changing from using the exclusions in Section 218.405(b)(3) to opting out of the exclusions under subsection (f)(1)(B), or if there is a change at the source so that the exclusions no longer apply, certify compliance in compliance with subsection (f)(1)(B) within 30 days after making the change, and perform all tests and calculations necessary to demonstrate that the printing lines will be in compliance with the applicable requirements of Section 218.407; and

- 4) If changing from opting out of the exclusions in Section 218.405(b)(3) under subsection (f)(1)(B) to using the exclusions, certify compliance in compliance with subsection (f)(1)(A) within 30 days after making the change.

- g) The owner or operator must maintain all records required by this Section at the source for at least three years and must make all records available to the Agency upon request.

- h) Provisions to Calculate Emissions from Heatset Web Offset Lithographic Printing Operations. To calculate VOM emissions from heatset web offset lithographic printing operations for purposes other than the applicability thresholds in Section 218.405, sources may use the following emission adjustment factors (for Annual Emissions Reports or permit limits, for example):

- 1) A factor of 0.80 may be used to calculate emissions from all heatset inks to account for VOM retention in the substrate except when using an

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impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, must be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines.

- 2) To determine VOM emissions from fountain solutions that contain no alcohol, an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

- A) The VOM emitted from the fountain solution must be calculated using the following equation:

$$VOM_{fs} = 0.30 \times VOM_{tot} + (0.70 \times VOM_{tot}) \times (1 - DE)$$

where:

VOM_{tot} = Total VOM in the fountain solution;

VOM_{fs} = VOM emitted from the fountain solution;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0;

- B) For fountain solutions that contain alcohol, impervious substrates such as metal or plastic, or non-heatset lithographic presses, no emission adjustment factor is used.

- 3) To determine VOM emissions from cleaning solutions used on heatset web offset lithographic printing lines at the source, an emission adjustment factor of 0.50 may be used to calculate emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at 20 °C (68 °F) and the shop towels are kept in closed containers. To determine VOM emissions from automatic blanket wash solution with a VOM composite vapor pressure of less than 10 mmHg measured at 20 °C (68 °F), an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

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- A) The VOM emitted from the automatic blanket wash solution must be calculated using the following equation.

$$VOM_{bw} = 0.60 \times VOM_{tot} + (0.40 \times VOM_{tot}) \times (1 - DE)$$

where:

VOM_{tot} = Total VOM in the blanket wash;

VOM_{bw} = VOM emitted from the blanket wash;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0.

- B) For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20 °C (68 °F), for shop towels that are not kept in closed containers, and for impervious substrates such as metal or plastic, no emission adjustment factor is used.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.412 Letterpress Printing Lines: Applicability

- a) Except under subsection (b), on and after August 1, 2010, the limitations in Sections 218.413 through 218.416 apply to:
- 1) All heatset web letterpress printing lines at a source if all heatset web letterpress printing lines (including solvents used for cleanup operations associated with heatset web letterpress printing lines) at the source have a total potential to emit at least 22.7 Mg (25 tons) of VOM per year; and
 - 2) All letterpress printing lines at a source where the combined emissions of VOM from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines) are ever at least 6.8 kg/day (15 lbs/day) without air pollution control equipment, calculated in compliance with Section 218.417(b)(1)(B).

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- b) Despite subsection (a), the requirements of Section 218.413(a)(2) do not apply to up to 416.3 l (110 gal) per year of cleaning materials used on letterpress printing lines at a subject source.
- c) On and after August 1, 2010, the recordkeeping and reporting requirements in Section 218.417 apply to all owners or operators of letterpress printing lines.
- d) If a letterpress printing line at a source is or becomes subject to at least one of the limitations in Section 218.413, the letterpress printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.413 Emission Limitations and Control Requirements for Letterpress Printing Lines

- a) An owner or operator of letterpress printing lines subject to this Subpart must not:
- 1) Cause or allow the operation of any heatset web letterpress printing line that meets the applicability requirements of Section 218.412(a)(1) unless:
- A) The air pressure in the dryer is maintained lower than the air pressure of the press room so that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
- B) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced:
- i) By 90%, by weight, for afterburners first constructed at the source before January 1, 2010;
- ii) By 95%, by weight, for afterburners first constructed at the source on or after January 1, 2010; or
- iii) To a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);

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- 73325 C) The afterburner complies with all monitoring provisions in Section
73326 218.416(a); and
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- 73328 D) The afterburner is operated at all times when the printing line is
73329 operating, except the afterburner may be shut down between
73330 November 1 and April 1 under Section 218.107;
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- 73332 2) Cause or allow the use of a cleaning solution on any letterpress printing
73333 line unless:
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- 73335 A) The VOM content of the as-used cleaning solution is 70% or less,
73336 by weight; or
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- 73338 B) The VOM composite partial vapor pressure of the as-used cleaning
73339 solution is less than 10 mmHg at 20 °C (68 °F);
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- 73341 3) Cause or allow VOM-containing cleaning materials, including used
73342 cleaning towels, associated with any letterpress printing line to be kept,
73343 stored, or disposed of in any manner other than in closed containers,
73344 except when specifically in use.
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- 73346 b) An owner or operator of a heatset web letterpress printing line subject to
73347 subsection (a)(1)(B) may use a control device other than an afterburner, if:
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- 73349 1) The control device reduces VOM emissions from the press dryer exhausts:
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- 73351 A) By 90%, by weight, for control devices first constructed at the
73352 source before January 1, 2010;
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- 73354 B) By 95%, by weight, for control devices first constructed at the
73355 source on or after January 1, 2010; or
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- 73357 C) To a maximum control device exhaust outlet concentration of 20
73358 ppmv (as carbon);
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- 73360 2) The owner or operator submits a plan to the Agency detailing appropriate
73361 monitoring devices, test methods, recordkeeping requirements, and
73362 operating parameters for the control device; and
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- 73364 3) The use of the control device in compliance with this plan is approved by
73365 the Agency and USEPA as federally enforceable permit conditions.

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(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.415 Testing for Letterpress Printing Lines

- a) Testing to demonstrate compliance with Section 218.413 must be conducted by the owner or operator by January 1, 2012, unless the testing has been conducted within the two years immediately preceding January 1, 2012. Testing must then be conducted by the owner or operator within 90 days after a request by the Agency or as otherwise specified in this Subpart. The testing must be conducted at the expense of the owner or operator, and the owner or operator must notify the Agency in writing 30 days before conducting the testing to allow the Agency to be present during the testing.
- b) The methods and procedures of Section 218.105(d) and (f) must be used for testing to demonstrate compliance with Section 218.413(a)(1)(B) or (b)(1), as follows:
 - 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference in Section 218.112. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust must be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference in Section 218.112;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60.Appendix A-7, incorporated by reference in Section 218.112. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;

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- 7405 B) The VOM concentration at the inlet of the control device and the
7406 required level of control result in exhaust concentrations of VOM
7407 of 50 ppmv or less, as carbon; and
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- 7409 C) Due to the high efficiency of the control device, the anticipated
7410 VOM concentration at the control device exhaust is 50 ppmv or
7411 less, as carbon, regardless of inlet concentration. If the source
7412 elects to use Method 25A under this option, the exhaust VOM
7413 concentration must be 50 ppmv or less, as carbon, and the required
7414 destruction efficiency must be met for the source to have
7415 demonstrated compliance. If the Method 25A test results show
7416 that the required destruction efficiency apparently has been met,
7417 but the exhaust concentration is above 50 ppmv, as carbon, a retest
7418 is required. The retest must be conducted using either Method 25
7419 or Method 25A. If the retest is conducted using Method 25A and
7420 the test results again show that the required destruction efficiency
7421 apparently has been met, but the exhaust concentration is above 50
7422 ppmv, as carbon, the source must retest using Method 25;
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- 7424 4) Despite the criteria or requirements in Method 25 which specify a
7425 minimum probe temperature of 129 °C (265 °F), the probe must be heated
7426 to at least the gas stream temperature of the dryer exhaust, typically close
7427 to 176.7 °C (350 °F);
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- 7429 5) During testing, the printing lines must be operated at representative
7430 operating conditions and flow rates; and
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- 7432 6) During testing, an air flow direction indicating device such as a smoke
7433 stick, must be used to demonstrate 100% emissions capture efficiency for
7434 the dryer in compliance with Section 218.413(a)(1)(A).
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- 7436 c) Testing to demonstrate compliance with the VOM content limitations in Section
7437 218.413(a)(2)(A) and to determine the VOM content of cleaning solvents,
7438 cleaning solutions, and inks under Section 218.417(b)(1)(B) must be conducted
7439 upon request of the Agency, or as otherwise specified in this Subpart, as follows:
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- 7441 1) The applicable test methods and procedures in Section 218.105(a) must be
7442 used; however, Method 24, incorporated by reference in Section 218.112,
7443 must be used to demonstrate compliance; or
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2) The manufacturer's specifications for VOM content for cleaning solvents and inks may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in compliance with methods in Section 218.105(a); however, Method 24 must be used to determine compliance.

d) Testing to demonstrate compliance with Section 218.413(b) must be conducted under the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions under Section 218.413(b).

e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions must be conducted in compliance with the applicable methods and procedures in Section 218.110.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.416 Monitoring Requirements for Letterpress Printing Lines

a) Afterburners for Heatset Web Letterpress Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to Section 218.413(a)(1)(B) must:

1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of 3 °C or 5 °F on the afterburner in compliance with Section 218.105(d)(2) and in compliance with the manufacturer's specifications. Monitoring must be performed at all times when the afterburner is operating; and

2) Install, calibrate, operate, and maintain, in compliance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

b) Other Control Devices for Heatset Web Letterpress Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to this Subpart must install, maintain, calibrate, and operate the monitoring equipment under the owner's or operator's plan approved by the Agency and USEPA under Section 218.413(b).

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c) Cleaning Solution

- 1) The owner or operator of any letterpress printing line relying on the VOM content of the cleaning solution to comply with Section 218.413(a)(2)(A) must:
 - A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
 - i) Install, operate, maintain, and calibrate the automatic feed equipment in compliance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
 - ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.413(a)(2)(A);
 - B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the use of cleaning solvent and water (or other non-VOM) under Section 218.417(c)(2).
- 2) The owner or operator of any letterpress printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.413(a)(2)(B) must keep records for the cleaning solutions used on any such lines under Section 218.417(e)(2)(C).

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.417 Recordkeeping and Reporting for Letterpress Printing Lines

- a) By August 1, 2010, or upon initial start-up of a new heatset web letterpress printing line, whichever is later, and upon modifying a heatset web letterpress printing line, an owner or operator of a heatset web letterpress printing line

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exempt from any of the limitations of Section 218.413 because of the criteria in Section 218.412(a)(1) must submit a certification to the Agency that includes:

- 1) A declaration that the source is exempt from Section 218.413 because of the criteria in Section 218.412(a)(1);
 - 2) Calculations which demonstrate that the source's total potential to emit VOM is less than 22.7 Mg (25 tons) per year.
- b) An owner or operator of a letterpress printing line exempt from any of the limitations of Section 218.413 because of the criteria in Section 218.412(a)(2) must:
- 1) By August 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon modifying a letterpress printing line, submit a certification to the Agency that includes the information in subsections (b)(1)(A) through (b)(1)(C) or subsections (b)(1)(A) and (b)(1)(D), as applicable:
 - A) A declaration that the source is exempt from the control requirements in Section 218.413 because of the criteria in Section 218.412(a)(2);
 - B) Calculations that demonstrate that combined emissions of VOM from all letterpress printing lines (including inks and solvents used for cleanup operations associated with the letterpress printing lines) at the source are less than 6.8 kg/day (15 lbs/day) without air pollution control equipment, as follows:
 - i) To calculate daily emissions of VOM, the owner or operator must determine the monthly emissions of VOM from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines) and divide this amount by the number of days during that calendar month that letterpress printing lines at the source were operating;
 - ii) To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures in Section 218.415(c) must be used;

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iii) To determine VOM emissions from inks used on letterpress printing lines at the source, an ink emission adjustment factor of 0.05 must be used to calculate emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 must be used to calculate emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, must be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and

iv) To determine VOM emissions from cleaning solutions used on letterpress printing lines at the source, an emission adjustment factor of 0.50 must be used to calculate emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at 20 °C (68 °F) and the shop towels are kept in closed containers. Otherwise, no retention factor is used;

C) A description and the results of all tests used to determine the VOM content of inks and cleaning solvents, and a declaration that these tests have been properly conducted in compliance with Section 218.415(c)(1);

D) As an alternative to the calculations in subsection (b)(1)(B), a statement that the source uses less than the amount of material in subsections (b)(1)(D)(i) or (b)(1)(D)(ii), as applicable, during each calendar month. A source may determine that it emits less than 6.8 kg/day (15 lbs/day) of VOM based upon compliance with the material use limitations. If the source exceeds this amount of material use in a calendar month, the owner or operator must, within 15 days after the end of that month, complete the emissions calculations of subsection (b)(1)(B) to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection as an alternative to the calculations in subsection (b)(1)(B).

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- 7608 i) The sum of all sheetfed and nonheatset web letterpress
7609 printing operations at the source: 242.3 l (64 gal) of
7610 cleaning solvent; or
7611
7612 ii) The sum of all heatset web letterpress printing operations at
7613 the source: 204.1 kg (450 lbs) of ink and cleaning solvent;
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- 7615 2) For sources complying with subsection (b)(1)(B), notify the Agency in
7616 writing if the combined emissions of VOM from all letterpress printing
7617 lines (including inks and solvents used for cleanup operations associated
7618 with the letterpress printing lines) at the source ever equal or exceed 6.8
7619 kg/day (15 lbs/day) without air pollution control equipment, within 30
7620 days after the event occurs;
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- 7622 3) For sources complying with subsection (b)(1)(D), comply with the
7623 following:
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- 7625 A) Maintain material use records showing that the source uses less
7626 than the amount of material in subsections (b)(1)(D)(i) and
7627 (b)(1)(D)(ii) during each calendar month, or, if the source exceeds
7628 the material use limitations, records showing that the source
7629 exceeded the limitations but emitted less than 6.8 kg/day (15
7630 lbs/day) of VOM. On and after January 1, 2012, the records must
7631 include the name, identification number, and VOM content of each
7632 cleaning solvent and ink used per calendar month, the volume of
7633 each cleaning solvent used per calendar month for each sheetfed
7634 and nonheatset web letterpress printing operation, and the weight
7635 of each cleaning solvent and ink used per calendar month for each
7636 heatset web letterpress printing operation;
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- 7638 B) Notify the Agency in writing if the source exceeds the material use
7639 limitations for six consecutive calendar months, or if the source
7640 changes its method of compliance from subsection (b)(1)(D) to
7641 subsection (b)(1)(B), within 30 days after the event occurs.
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- 7643 c) Unless complying with subsections (b)(1)(D) and (b)(3), on and after August 1,
7644 2010, an owner or operator of a letterpress printing line exempt from any of the
7645 limitations in Section 218.413 because of the criteria in Section 218.412(a)(1) or
7646 (a)(2) must collect and record the information in either subsection (c)(1) or (c)(2)
7647 for all letterpress printing lines at the source:
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- 1) Standard recordkeeping, including:
- A) The name and identification of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) A daily record that shows whether a letterpress printing line at the source was operating on that day;
 - C) The VOM content and the volume of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month; and
 - E) The VOM emissions in lbs/day for the month, calculated in compliance with subsection (b)(1)(B);
- 2) Purchase and inventory recordkeeping, including:
- A) The name, identification, and VOM content of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) Inventory records from the beginning and end of each month indicating the total volume of each letterpress ink, and cleaning solvent to be used on any letterpress printing line at the source;
 - C) Monthly purchase records for each letterpress ink and cleaning solvent used on any letterpress printing line at the source;
 - D) A daily record that shows whether a letterpress printing line at the source was operating on that day;
 - E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment factor) used at the source, calculated each

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- month based on the monthly inventory and purchase records required to be maintained under subsections (c)(2)(A), (c)(2)(B), and (c)(2)(C); and
- F) The VOM emissions in lbs/day for the month, calculated in compliance with subsection (b)(1)(B);
- d) An owner or operator of a heatset web letterpress printing lines subject to the control requirements of Section 218.413(a)(1)(B) or (b)(1) must comply with the following:
- 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, and upon initial start-up of a new control device for a heatset web printing line, submit a certification to the Agency that includes:
- A) An identification of each heatset web letterpress printing line at the source;
- B) A declaration that each heatset web letterpress printing line is in compliance with Section 218.413 (a)(1) or (b), as appropriate;
- C) The type of afterburner or other approved control device used to comply with Section 218.413(a)(1)(B) or (b)(1), and the date that the device was first constructed at the subject source;
- D) The control requirements in Section 218.413(a)(1)(B) or (b)(1) with which the letterpress printing line is complying;
- E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.413(a)(1)(B) or (b)(1), as applicable; and
- F) A declaration that the monitoring equipment required under Section 218.413(a)(1)(C) or (b), as applicable, has been properly installed and calibrated according to manufacturer's specifications;
- 2) If testing of the afterburner or other approved control device is conducted under Section 218.415(b), the owner or operator must, within 90 days after conducting the testing, submit a copy of all test results to the Agency and a certification to the Agency that includes:

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- A) A declaration that all tests and calculations necessary to demonstrate whether the letterpress printing lines is in compliance with Section 218.413(a)(1)(B) or (b)(1), as applicable, have been properly performed;
 - B) A statement whether the heatset web letterpress printing lines are or are not in compliance with Section 218.413(a)(1)(B) or (b)(1), as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in compliance with Section 218.416(a) or (b), as applicable;
- 3) Except under subsection (d)(3)(D), collect and record daily the following information for each heatset web letterpress printing line subject to Section 218.413(a)(1)(B) or (b)(1):
- A) Afterburner or other approved control device monitoring data in compliance with Section 218.416(a) or (b), as applicable;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) A log detailing checks on the air flow direction or air pressure of the dryer and press room to ensure compliance with Section 218.413(a)(1)(A) at least once per calendar month while the line is operating;
- 4) Notify the Agency in writing of any violation of Section 218.413(a)(1)(B) or (b)(1) within 30 days after the violation. The notification must include a copy of all records of the violation;
- 5) If changing the method of compliance between Sections 218.413(a)(1)(B) and 218.413(b), certify compliance for the new method of compliance

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under Section 218.413(b) at least 30 days before making the change, and perform all tests and calculations necessary to demonstrate that the printing lines will be in compliance with Section 218.413(a)(1), or Section 218.413(b), as applicable.

- e) For letterpress printing line cleaning operations, an owner or operator of a letterpress printing line subject to Section 218.413 must:
- 1) By August 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, certify to the Agency that all cleaning solutions, other than those excluded under Section 218.412(b), and the handling of all cleaning materials will be in compliance with Section 218.413(a)(2)(A) or (a)(2)(B) and (a)(3). The certification must include:
 - A) A statement that the cleaning solution will comply with the limitations in Section 218.413(a)(2);
 - B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - C) A sample of the records that will be kept under subsection (e)(2); and
 - D) A description of the practices that ensure that VOM-containing cleaning materials are kept in closed containers;
 - 2) Collect and record the following information for each cleaning solution used on each letterpress printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.413(a)(2)(A) and that is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.415(c);

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- 7812 iii) Each change to the setting of the automatic equipment,
7813 with date, time, description of changes in the cleaning
7814 solution constituents (e.g., cleaning solvents), and a
7815 description of changes to the proportion of cleaning solvent
7816 and water (or other non-VOM);
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7818 iv) The proportion of each cleaning solvent and water (or other
7819 non-VOM) used to prepare the as-used cleaning solution;
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7821 v) The VOM content of the as-used cleaning solution, with
7822 supporting calculations; and
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7824 vi) A calibration log for the automatic equipment, detailing
7825 periodic checks;
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7827 B) For each batch of cleaning solution for which the owner or
7828 operator relies on the VOM content to demonstrate compliance
7829 with Section 218.413(a)(2)(A), and that is not prepared at the
7830 source with automatic equipment:
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7832 i) The name and identification of each cleaning solution;
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7834 ii) Date and time of preparation, and each subsequent
7835 modification, of the batch;
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7837 iii) The VOM content of each cleaning solvent in the cleaning
7838 solution, as determined in compliance with Section
7839 218.415(c);
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7841 iv) The total amount of each cleaning solvent and water (or
7842 other non-VOM) used to prepare the as-used cleaning
7843 solution; and
7844
7845 v) The VOM content of the as-used cleaning solution, with
7846 supporting calculations. For cleaning solutions that are
7847 used as purchased, the manufacturer's specifications for
7848 VOM content may be used if the manufacturer's
7849 specifications are based on results of tests of the VOM
7850 content conducted in compliance with methods in Section
7851 218.105(a);
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- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.413(a)(2)(B):
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in compliance with Section 218.415(e). For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if the manufacturer's specifications are based on results of tests conducted in compliance with methods in Sections 218.105(a) and 218.110;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in compliance with Section 218.415(e). For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if the manufacturer's specifications are based on results of tests conducted in compliance with methods in Sections 218.105(a) and 218.110;
- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any;
- E) The amount of cleaning materials used on letterpress printing lines at the source that do not comply with the cleaning material limitations in Section 218.413(a)(2);

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- 3) Notify the Agency in writing of any violation of Section 218.413 within 30 days after the violation. The notification must include a copy of all records of the violation.

- f) The owner or operator must maintain all records required by this Section at the source for at least three years and must make all records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective
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**SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND POLYMER
MANUFACTURING PLANT**

Section 218.421 General Requirements

The owner or operator of a plant which processes more than 3,660 Mg/yr (4,033 tons/year) gaseous and light liquid VOM, and whose components are used to manufacture the synthetic organic chemicals or polymers listed in Appendix A, must comply with this Subpart. This Subpart applies to components containing at least 10% by weight VOM as determined by ASTM methods E168-16 (2023), E169-16 (2022), and E260-96 (2019), incorporated by reference in Section 218.112. Those components that are not process unit components are exempt from this Subpart. A component is considered leaking if the VOM is at least 10,000 ppmv as methane or hexane as determined by USEPA Reference Method 21, 40 CFR 60. Appendix A, incorporated by reference in Section 218.112, there is an indication of liquids dripping, or a sensor indicates that a seal or barrier fluid system has failed. This Subpart does not apply if the equipment components are used to produce heavy liquid chemicals only from heavy liquid feed or raw materials.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.422 Inspection Program Plan for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 218.421 must prepare an inspection program plan which contains, at a minimum:

- a) An identification of all components and the period in which each will be monitored under Section 218.423 ;
- b) The format for the monitoring log required by Section 218.425;

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- 7934
- 7935 c) A description of the monitoring equipment to be used when complying with
- 7936 Section 218.423; and
- 7937
- 7938 d) A description of the methods to be used to identify all pipeline valves, pressure
- 7939 relief valves in gaseous service, all leaking components, and components
- 7940 exempted under Section 218.423(j) so that they are obvious and can be located by
- 7941 both plant personnel performing monitoring and Agency personnel performing
- 7942 inspections.
- 7943

7944 (Source: Amended at 50 Ill. Reg. _____, effective

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Section 218.423 Inspection Program for Leaks

7947 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to

7948 this Subpart must, to detect leaks, conduct a component inspection program using the test

7949 methods in Method 21, 40 CFR 60.Appendix A-7, incorporated by reference in Section 218.112,

7950 consistent with the following provisions:

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- 7954 a) Test annually the components operated near extreme temperature or pressure
- 7955 which would be unsafe to routinely monitor and the components which would
- 7956 require elevating monitoring personnel higher than two meters above permanent
- 7957 worker access structures or surfaces.
- 7958
- 7959 b) Test quarterly all other pressure relief valves in gas service, pumps in light liquid
- 7960 service, valves in light liquid service and in gas service, and compressors.
- 7961
- 7962 c) If 2% or fewer of the valves in light liquid service and in gas service tested under
- 7963 subsection (b) are found to leak for five consecutive quarters, no leak tests is
- 7964 required for the next three consecutive quarters, after which leak tests must
- 7965 resume for the next quarter. If that test shows 2% or fewer of the valves in light
- 7966 liquid service and in gas service are leaking, then no tests are required for the next
- 7967 three quarters. If more than 2% are leaking, then tests are required for the next
- 7968 five quarters.
- 7969
- 7970 d) Observe visually all pump seals weekly.
- 7971
- 7972 e) Test immediately any pump seal from which liquids are observed dripping.
- 7973
- 7974 f) Test any relief valve within 24 hours after it has vented to the atmosphere.

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- 7976 g) Routine instrument monitoring of flanges, valves which are not externally
- 7977 regulated, and equipment in heavy liquid service is not required. However, any
- 7978 flange, valve which is not externally regulated, or piece of equipment in heavy
- 7979 liquid service that is found to be leaking on the basis of sight, smell, or sound
- 7980 must be repaired as soon as practicable but within 30 days after the leak is found.
- 7981
- 7982 h) Test immediately after repair any component that was found leaking.
- 7983
- 7984 i) Within one hour of detecting a leak, a weatherproof readily visible tag, in bright
- 7985 colors such as red or yellow and bearing an identification number and the date on
- 7986 which the leak was detected, must be affixed on the leaking component and
- 7987 remain in place until the leaking component is repaired.
- 7988
- 7989 j) The following components are exempt from the monitoring requirements in this
- 7990 Section:
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- 7992 1) Any component in vacuum service; and
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- 7994 2) Any pressure relief valve connected to an operating flare header or vapor
- 7995 recovery device.
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7997 (Source: Amended at 50 Ill. Reg. _____, effective

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8000 **Section 218.424 Repairing Leaks**

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8002 All leaking components must be repaired and retested as soon as practicable but within 15 days

8003 after the leak is found, unless the leaking component cannot be repaired until the process unit is

8004 shut down. Records of repairing and retesting must be maintained in compliance with Sections

8005 218.425 and 218.426.

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8007 (Source: Amended at 50 Ill. Reg. _____, effective

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8010 **Section 218.425 Recordkeeping for Leaks**

8011

- 8012 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
- 8013 plant must maintain a leaking components monitoring log which must contain, at
- 8014 a minimum:
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- 8016 1) The name of the process unit where the component is located;
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8018 2) The type of component (e.g., valve, seal);
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8020 3) The identification number of the component;
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8022 4) The date on which a leaking component is discovered;
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8024 5) The date on which a leaking component is repaired;
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8026 6) The date and instrument reading of the recheck procedure after a leaking
8027 component is repaired;
8028
8029 7) A record of the calibration of the monitoring instrument;
8030
8031 8) The identification number of leaking components which cannot be
8032 repaired until process unit shutdown; and
8033
8034 9) The total number of valves in light liquid service and in gas service
8035 inspected; and the total number and percentage of these valves found
8036 leaking during the monitoring period.
8037
8038 b) Copies of the monitoring log must be retained by the owner or operator for at least
8039 two years after the date on which the record was made or the report was prepared.
8040
8041 c) Copies of the monitoring log must be made available to the Agency, upon verbal
8042 or written request, before or at the time of inspection under Section 4(d) of the
8043 Environmental Protection Act [415 ILCS 5/4(d)] at any reasonable time.
8044

8045 (Source: Amended at 50 Ill. Reg. , effective
8046)
8047

Section 218.426 Report for Leaks

8048
8049
8050 The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to
8051 Section 218.421 through 218.430 must:
8052

- 8053 a) Submit quarterly reports to the Agency by March 31, June 30, September 30, and
8054 December 31 of each year, listing:
8055

8056 ~~1)~~ 1) All leaking components identified under Section 218.423 but not repaired

Schwartz, J p [JS40] April 29, 2026
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within 15 days;

- ~~2)~~2) All leaking components awaiting process unit shutdown;
- ~~3)~~3) The total number of components inspected;
- ~~4)~~4) The type of components inspected;
- ~~5)~~5) The total number of components found leaking;
- ~~6)~~6) The total number of valves in light liquid service and in gas service inspected; and
- ~~7)~~7) The number and percentage of valves in light liquid service and in gas service found leaking.

- b) Submit a signed statement with the report attesting that all monitoring and repairs were performed as required under Section 218.421 through 218.427.

(Source: Amended at 50 Ill. Reg. , effective)

Section 218.427 Alternative Program for Leaks

The Agency may approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in this Subpart if an owner or operator of a plant demonstrates that the alternative program will provide source personnel and Agency personnel with an equivalent ability to identify and repair leaking components. Any alternative program can be allowed if approved by the Agency and approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. , effective)

Section 218.428 Open-Ended Valves

- a) Each open-ended valve must be equipped with a cap, blind flange, plug, or a second valve, except during operations requiring fluid flow through the open-ended valve.
- b) Each open-ended valve equipped with a second valve must be operated so that the valve on the process fluid end is closed before the second valve is closed.

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- c) Components which are open-ended valves and which serve as a sampling connection must be controlled so that they comply with subsection (c)(1), (c)(2), or (c)(3). This requirement does not apply to in-situ sampling systems.
- 1) A closed purge system or closed vent system must return purged process fluid to the process line with no detectable VOM emissions to the atmosphere;
- 2) A closed purge system or closed vent system must collect and recycle purged process fluid to the process line with no detectable VOM emissions to the atmosphere; or
- 3) Purged process fluid must be transported to a control device that complies with Section 218.429. If a container is used to transport purged process fluid to the control device, the container must be a closed container designed and used to reduce the VOM emissions vented from purged process fluid after transfer to no detectable VOM emissions as determined by USEPA Reference Method 21, 40 CFR 60. Appendix A-7, incorporated by reference in Section 218.112. For this Section, the phrase "after transfer" refers to the time at which the entire amount of purged process fluid resulting from a flushing or cleaning of the sample line enters the container; however, that purged process fluid may be transferred from the initial container to another closed container before disposal, e.g., to a bulk waste storage container.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.429 Standards for Control Devices

Control devices used to comply with Section 218.428(c) must comply with the following:

- a) If the control device is a vapor recovery system (for example, condensers and adsorbers), it must be designed and operated to recover the VOM emissions vented to it with at least a 95% efficiency.
- b) If the control device is an enclosed combustion device, it must be designed and operated to reduce the VOM emissions vented to it with at least a 95% efficiency, or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C.

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- c) If the control device is a flare, it must:
- 1) Be designed for and operated with no visible emissions as determined by USEPA Reference Method 22, 40 CFR 60. Appendix A-7, incorporated by reference in Section 218.112, except for periods up to a total of five minutes during any two consecutive hours.
 - 2) Be operated with a pilot flame present at all times and monitored with a thermocouple or any other equivalent device to detect the presence of the pilot flame.
 - 3) Be steam-assisted, air assisted, or nonassisted.
 - 4) Be used only with the net heating value of the gas being combusted at 11.2 MJ/scm (300 btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted at 7.45 MJ/scm or greater if the flare is nonassisted. The net heating value of the gas being combusted must be calculated using the following equation:

$$H_r = \sum_{i=1}^n C_i H_i$$

$$H_r = K \sum_{i=1}^n C_i H_i$$

Where:

H_r = Net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mmHg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;

K = Constant, 1.740×10^{-7} (1/ppm) (g-mole/scm) (MJ/Kcal)

where

standard temperature for (g-mole/scm) is 20 °C;

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~~C_i~~ = Concentration of sample component i, in ppm, as measured by USEPA Reference Method 18, 40 CFR 60. Appendix A-6, incorporated by reference in Section 218.112;

~~H_i~~ = Net heat of combustion of sample component i, kcal/g mole. The heats of combustion may be determined using ASTM D4809-18, incorporated by reference in Section 218.112, if published values are not available or cannot be calculated.

- 5) Steam-assisted and nonassisted flares must be designed and operated with an exit velocity, determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by USEPA Reference Method 2 or 2A, 40 CFR 60. Appendix A-1, incorporated by reference in Section 218.112, as appropriate, by the unobstructed (free) cross sectional area of the flare tip, that is less than 18 m/sec (60 ft/sec).
- 6) Air-assisted flares must be designed and operated with an exit velocity less than the maximum permitted velocity, $V_{\max}$, as determined by the following equation:

$$V_{\max} = 8.706 + 0.7084 (H_i);$$

~~$V_{\max}$ = Maximum permitted velocity, m/sec;~~
~~8.706 = Constant;~~
~~0.7084 = Constant;~~

$V_{\max}$ = Maximum permitted velocity, m/sec;

8.706 = Constant;

0.7084 = Constant;

H_i = ~~H_i~~ The net heating value as determined in subsection (c)(4).

- d) The owner or operator must maintain the following information pertaining to closed vent systems and control devices subject to Section 218.429. These records must be updated as necessary to describe current operation and equipment. The records must be retained at a readily accessible location at the

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source for at least two years after the control device is permanently shut down.

- 1) Detailed schematics, design specifications, and piping and instrumentation diagrams;
 - 2) The dates and description of any changes in design specifications;
 - 3) A description of the parameter or parameters monitored and recorded as required in subsection (f)(1) to ensure that the control devices are operated and maintained in conformance with their design, and an explanation why that parameter (or parameters) was selected for monitoring.
- e) The control device must be operated at all times when emissions may be vented to it.
- f) Owners and operators of control devices used to comply with this Subpart must monitor each control device to ensure that the control device is operated and maintained in conformance with its designs at all times that emissions may be vented to it. This monitoring must be conducted in compliance with Section 218.429(d)(3). The records prepared as part of this monitoring activity must include the dates of startup and shutdown of control devices and identify periods when the devices are not operated as designed, including periods when a flare pilot light does not have a flame.
- g) Subsections (d), (e), and (f) do not apply to a combustion device located at the source used to dispose of purged process fluid which is subject to the Burning of Hazardous Waste in Boilers and Industrials Furnaces (BIF) rules, 40 CFR 260, 261, 264, 265, 266, and 270, or which is subject to the Resource Conservation and Recovery Act (RCRA) rules, 35 Ill. Adm. Code 703, 720, 721, 724, 725, and 726. The owner or operator of the combustion device must satisfy applicable provisions of the RCRA or BIF rules.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.431 Applicability

- a) Sections 218.431 through 218.436 apply to:
- 1) Every owner or operator of any chemical manufacturing process unit that manufactures as a primary product at least one of the chemicals listed in

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Appendix A, and that chemical manufacturing process unit causes or allows any reactor or distillation unit, either individually or in tandem, to discharge at least one process vent stream either directly to the atmosphere or to a recovery system; and

- 2) All continuous distillation and reactor process emission units not subject to Section 218.520 through 218.527 and located within Stepan Company's Millsdale manufacturing facility, Elwood.
- b) Despite subsection (a), the control requirements of Section 218.432 do not apply to:
- 1) Any process vent stream with a total resource effectiveness (TRE) index value greater than 1.0. However, the process vent stream remains subject to the performance testing requirements in Section 218.433 and the reporting and recordkeeping requirements in Section 218.435;
 - 2) Any reactor or distillation unit that is designed and operated as a batch operation;
 - 3) Any reactor or distillation unit that is part of a polymer manufacturing operation;
 - 4) Any reactor or distillation unit that is part of the chemical manufacturing process unit with a total design capacity of less than 1 gigagram (1,100 tons) per year for all chemicals produced as a primary product within that process unit. However, the operations remain subject to the reporting and recordkeeping requirements in Section 218.435(d);
 - 5) Any vent stream with a flow rate less than 0.0085 scm/min or a total VOM concentration of less than 500 ppmv, excluding methane and ethane, as measured by Method 18, or a concentration of VOM of less than 250 ppmv as measured by Method 25A. However, the operations remain subject to the performance testing requirement in Section 218.433 and the reporting and recordkeeping requirements in Section 218.435; or
 - 6) Any reactor or distillation unit included within an Early Reduction Program, as specified in 40 CFR 63, and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.

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(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.432 Control Requirements

- a) Every owner or operator of a source subject to this Subpart, as determined by Section 218.431, must either:
- 1) Reduce emissions of VOM, excluding methane or ethane, by 98% by weight, or to 20 ppmv on a dry basis corrected to 3% oxygen, whichever is less stringent;
 - 2) If a boiler or process heater is used to comply with this Subpart, the vent stream must be introduced into the flame zone of the boiler or process heater; or
 - 3) If a flare is used to comply with this Subpart, it must comply with 40 CFR 60.18, incorporated by reference at Section 218.112. The flare operation requirements of 40 CFR 60.18 do not apply if a process not subject to this Subpart vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with at least one of the provisions of 40 CFR 60.18.
- b) Despite subsection (a) or (c), and subject to subsection (b)(2):
- 1) An owner or operator of a source subject to Section 218.432 must not cause or allow VOM to be emitted through an existing control device unless the control device is operated to achieve:
 - A) 90% control of the VOM emissions vented to it; or
 - B) VOM emissions concentration of less than 50 ppmv, on a dry basis.
 - 2) Any existing control device subject to subsection (a) is required to meet the 98% emissions limit in subsection (a)(1) upon the date the control device is replaced for any reason, including normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A control device is considered replaced when:
 - A) The entire device is replaced; or

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B) When the cost to repair the device or replace part of the device exceeds 50% of the cost to replace the entire device with a device that complies with the 98% emissions limitation in subsection (a)(1).

c) For each individual vent stream within a chemical manufacturing process unit with a TRE index value greater than 1.0, the owner or operator must maintain process vent stream parameters that retain a calculated TRE index value greater than 1.0 through recovery. Any recovery device must have as its primary purpose the capture of chemicals for use, reuse, or sale. The TRE index value must be calculated at the outlet of the final recovery device.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.433 Performance and Testing Requirements

a) To demonstrate compliance with the TRE index value in Section 218.432(c), an engineering assessment must be made to determine process vent stream flow rate, net heating value, and VOM emission rate for the representative operating conditions expected to yield the lowest TRE index value. The source must also calculate the TRE index values under the equations in Appendix G (b)(1).

1) If the TRE index value calculated using the engineering assessment and the TRE equation in Appendix G (b)(1) is greater than 4.0, then the owner or operator is exempt from performing the measurements in Appendix G (a).

2) If the TRE index value calculated using the engineering assessment and the TRE equation in Appendix G (b)(1) is less than or equal to 4.0, then the owner or operator must perform the measurements in Appendix G (a). An owner or operator of a source may, in the alternative, elect to comply with the control requirements in Section 218.432 rather than performing the measurements in Appendix G (a).

3) An engineering assessment must include:

A) Previous test results, if the tests are representative of current operating practices at the chemical manufacturing process unit;

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- 8355
- 8356 B) Bench-scale or pilot-scale test data of the process under
- 8357 representative operating conditions;
- 8358
- 8359 C) Maximum flow rate, as stated within a permit limit,
- 8360 applicable to the process vent;
- 8361
- 8362 D) Design analysis based on accepted chemical engineering
- 8363 principles, measurable process parameters, or physical or
- 8364 chemical laws or properties. Examples of analytical
- 8365 methods include:
- 8366
- 8367 i) Use of material balances based on process
- 8368 stoichiometry to estimate maximum VOM
- 8369 concentrations;
- 8370
- 8371 ii) Estimation of maximum flow rate based on physical
- 8372 equipment design, such as pump or blower
- 8373 capacities;
- 8374
- 8375 iii) Estimation of VOM concentrations based on
- 8376 saturation conditions; and
- 8377
- 8378 iv) Estimation of maximum expected net heating value
- 8379 based on the stream concentration of each organic
- 8380 compound, or, alternatively, as if all VOM in the
- 8381 stream were the compound with the highest heating
- 8382 value.
- 8383
- 8384 E) All data, assumptions, and procedures used in the
- 8385 engineering assessment must be documented.
- 8386
- 8387 b) To demonstrate compliance with the control requirements in Section 218.432, the
- 8388 chemical manufacturing process unit must be run at representative operating
- 8389 conditions and flow rates during any performance test.
- 8390
- 8391 c) The following methods in 40 CFR 60, incorporated by reference at Section
- 8392 218.112 , must be used to demonstrate compliance with the reduction efficiency
- 8393 requirement in Section 218.432(a)(1).
- 8394

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- 1) Method 1 or 1A, incorporated by reference at Section 218.112, as appropriate, to select sampling sites. The control device inlet sampling site to determine vent stream molar composition or VOM content, excluding methane and ethane, reduction efficiency must be located after the last recovery device but before the inlet of the control device, before any dilution of the process vent stream, and before release to the atmosphere.
- 2) Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112, as appropriate, to determine gas stream volumetric flow rate.
- 3) The emission rate correction factor, integrated sampling, and analysis procedure of Method 3, incorporated by reference at Section 218.112, must be used to determine the oxygen concentration ($\% \text{O}_{2d}$) to determine compliance with the 20 ppmv limitation. The sampling site to determine compliance with the 20 ppmv limitation must be the same site used for the VOM samples, and samples must be taken at the same time that the VOM samples are taken. The VOM concentration corrected to 3% oxygen (C_c) must be computed using the following formula:

$$C_c = C_{\text{vom}} \times \frac{17.9}{20.9 - \% \text{O}_{2d}}$$

where:

C_c = ~~Concentration of VOM (excluding methane and ethane) corrected to 3% O₂, dry basis, ppmv.~~

C_c = Concentration of VOM (excluding methane and ethane) corrected to 3% O₂, dry basis, ppmv.

C_{vom} = Concentration of VOM (excluding methane and ethane), dry basis, ppmv.

$\% \text{O}_{2d}$ = Concentration of oxygen, dry basis, percent by volume.

- 4) Method 18, incorporated by reference at Section 218.112, to determine the concentration of VOM, excluding methane and ethane, at the outlet of the

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control device when determining compliance with the 20 ppmv limitation in Section 218.432(a)(1), or at both the control device inlet and outlet when the reduction efficiency of the control device is to be determined.

- A) The minimum sampling time for each run must be 1 hour in which either an integrated sample or four grab samples must be taken. If grab sampling is used, then the samples must be taken at 15-minute intervals.
- B) The emission reduction (R) of VOM, excluding methane and ethane, must be determined using the following formula:

$$R = \frac{(E_i - E_o)}{E_i} \times 100$$

where:

R = Emission reduction, percent by weight.

R = Emission reduction, percent by weight.

E_i = Mass rate of VOM (excluding methane and ethane) entering the control device, kg VOM/hr.

E_o = Mass rate of VOM, excluding methane and ethane discharged to the atmosphere, kg VOM/hr.

E_i = Mass rate of VOM (excluding methane and ethane) entering the control device, kg VOM/hr.

E_o = Mass rate of VOM, excluding methane and ethane discharged to the atmosphere, kg VOM/hr.

- C) The mass rates of VOM (E_i, E_o) must be computed using the following formula:

$$E_i = E_o \left(\sum C_i W_i \right) R$$

$$E_o = E_i \left(\sum C_i W_i \right) R$$

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where:

C_{ij}, C_{oj} = ~~Concentration of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, dry basis, ppmv.~~

C_{ij}, C_{oj} = Concentration of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, dry basis, ppmv.

M_{ij}, M_{oj} = Molecular weight of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, grams/gram-mole.

Q_i, Q_o = Flow rate of gas stream at the inlet and outlet of the control device, respectively, dry space scm/min.

K_2 = 2.494×10^{-6} (liters/minute) (gram-mole per scm) (kg/g) (min/hr), where standard temperature for (gram-mole/scm) is 20 °C.

M_{ij}, M_{oj} = ~~Molecular weight of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, grams per gram mole.~~

Q_i, Q_o = ~~Flow rate of gas stream at the inlet and outlet of the control device, respectively, dry scm/min.~~

K_2 = ~~2.494×10^{-6} (liters per minute) (gram mole per scm) (kg/g) (min/hr), where standard temperature for (gram mole per scm) is 20 °C.~~

- D) The representative VOM concentration (C_{vom}) is the sum of each of the individual components of VOM (C_j) and must be computed for each run using the following:

$$C_{vom} = \sum_{j=1}^n C_j$$

where:

C_{vom} = ~~Concentration of VOM (excluding methane and ethane), dry basis, ppmv.~~

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C_j = ~~Concentration of sample component "j", dry basis, ppmv.~~

C_{VOM} = Concentration of VOM (excluding methane and ethane), dry basis, ppmv.

C_i = Concentration of sample component "j", dry basis, ppmv.

n = Number of components in the sample.

n = ~~Number of components in the sample.~~

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5) When a boiler or process heater with a design heat input capacity of at least 44 MW, or a boiler or process heater into which the process vent stream is introduced with the primary fuel, is used to comply with the control requirements, an initial performance test is not required.

d) When a flare is used to comply with the control requirements of this rule, the flare must comply with 40 CFR 60.18, incorporated by reference at Section 218.112.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.434 Monitoring Requirements

- a) The owner or operator of a source subject to the control requirements in Section 218.432 that uses an incinerator to comply with the VOM emission limitation in Section 218.432(a)(1) must install, calibrate, maintain, and operate, according to manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and with an accuracy of $\pm 1\%$ of the temperature measured expressed in degrees Celsius or $\pm 0.5^\circ\text{C}$, whichever is greater.
- 1) If an incinerator other than a catalytic incinerator is used, a temperature monitoring device must be installed in the firebox.
- 2) If a catalytic incinerator is used, temperature monitoring devices must be installed in the gas stream immediately before and after the catalyst bed.
- b) The owner or operator of a source that uses a flare to comply with Section 218.432(a)(2) must install, calibrate, maintain, and operate according to manufacturer's specifications a heat-sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a

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flame.

- c) The owner or operator of a source that uses a boiler or process heater with a design heat input capacity less than 44 MW to comply with Section 218.432(a)(1) must install, calibrate, maintain, and operate according to the manufacturer's specifications a temperature monitoring device in the firebox. The monitoring device must be equipped with a continuous recorder with an accuracy of $\pm 1\%$ of the temperature being measured expressed in degrees Celsius or $\pm 0.5^\circ\text{C}$, whichever is greater. Any boiler or process heater in which all vent streams are introduced with primary fuel is exempt from this requirement.
- d) The owner or operator of a process vent with a TRE index value of 4.0 or less that uses at least one product recovery device must install either an organic monitoring device equipped with a continuous recorder or the monitoring equipment specified in subsections (d)(1), (d)(2), (d)(3), or (d)(4), depending on the type of recovery device used. All monitoring equipment must be installed, calibrated, and maintained according to the manufacturer's specifications.
- 1) If an absorber is the final recovery device in the recovery system, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each equipped with a continuous recorder, must be used.
 - 2) If a condenser is the final recovery device in the recovery system, a condenser exit (product side) temperature monitoring device equipped with a continuous recorder and with an accuracy of $\pm 1\%$ of the temperature being monitored expressed in degrees Celsius or $\pm 0.5^\circ\text{C}$, whichever is greater.
 - 3) If a carbon adsorber is the final recovery device in the recovery system, an integrating regeneration steam flow monitoring device with an accuracy of $\pm 10\%$, capable of recording the total regeneration steam mass flow for each regeneration cycle; and a carbon bed temperature monitoring device with an accuracy of $\pm 1\%$ of the temperature being monitored expressed in degrees Celsius of $\pm 0.5^\circ\text{C}$, capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle.
 - 4) If a scrubber is used with an incinerator, boiler, or, in the case of halogenated vent streams, a process heater, the following monitoring equipment is required for the scrubber:

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- 8558
8559 A) A pH monitoring device equipped with a continuous recorder to
8560 monitor the pH of the scrubber effluent; and
8561
8562 B) Flow meters equipped with a continuous recorder at the scrubber
8563 influent for liquid flow and the scrubber inlet for gas stream flow.
8564
8565 e) The owner or operator of a process vent using a vent system that contains bypass
8566 lines capable of diverting a vent stream away from the control device associated
8567 with a process vent must comply with either subsection (e)(1) or (e)(2) .
8568 Equipment needed for safety purposes, including pressure relief devices, is not
8569 subject to this subsection.
8570
8571 1) The owner or operator must install, calibrate, maintain, and operate a flow
8572 indicator that provides a record of vent stream flow at least once every 15
8573 minutes. The flow indicator must be installed at the entrance to any
8574 bypass line that could divert the vent stream away from the control device
8575 to the atmosphere.
8576
8577 2) The owner or operator must secure the bypass line valve in the closed
8578 position with a car-seal or a lock-and-key type configuration. A visual
8579 inspection of the seal or closure mechanism must be performed at least
8580 once every month to ensure that the valve is maintained in the closed
8581 position and the vent stream is not diverted through the bypass line.
8582
8583 f) The owner or operator of a process vent may monitor by an equivalent alternative
8584 means or parameters other than those in subsections (a) through (d). Any
8585 equivalent alternative must be approved by the Agency and USEPA and in the
8586 source's operating permit as federally enforceable permit conditions.
8587

8588 (Source: Amended at 50 Ill. Reg. _____, effective
8589 _____)
8590

Section 218.435 Recordkeeping and Reporting Requirements

- 8591
8592
8593 a) Every owner or operator of a reactor or distillation unit with a TRE index value of
8594 4.0 or less must keep for at least three years records of the following parameters
8595 measured during a performance test or TRE determination required under Section
8596 218.433, and required to be monitored under Section 218.434.
8597
8598 1) Every owner or operator of a source that seeks to demonstrate compliance

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with Section 218.432(a)(1) by using either a thermal or catalytic incinerator must maintain records of the following:

- A) The average firebox temperature of the incinerator (or the average temperature upstream and downstream of the catalyst bed for a catalytic incinerator), measured at least every 15 minutes and averaged over the same time period of the performance testing; and
 - B) The percent reduction of VOM determined under Section 218.433(c) achieved by the incinerator, or the concentration of VOM (ppmv, by compound) determined under Section 218.433(c) at the outlet of the control device, on a dry basis, corrected to 3% oxygen.
- 2) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(1) by using a boiler or process heater must maintain the records in subsections (a)(2)(A) and (a)(2)(B). Any boiler or process heater in which all vent streams are introduced with primary fuel are exempt from these requirements.
- A) A description of the location at which the vent stream is introduced into the boiler or process heater; and
 - B) The average combustion temperature of the boiler or process heater with a design heat input capacity of less than 44 MW measured at least every 15 minutes and averaged over the same time period of the performance testing.
- 3) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(2) by using a smokeless flare or flare design (i.e., steam-assisted, air-assisted, or nonassisted) must maintain records of all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the performance test; continuous records of the flare pilot flame monitoring; and records of all periods of operations during which the pilot flame is absent.
- 4) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(b) must maintain records of the following:
- A) If an absorber is the final recovery device in the recovery system,

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the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid saturation, if approved by the Agency and USEPA), and average exit temperature of the absorbing liquid measured at least every 15 minutes and averaged over the same time period as the performance testing (both measured while the vent stream is normally routed and constituted);

- B) If a condenser is the final recovery device in the recovery system, the average exit (product side) temperature measured at least every 15 minutes and averaged over the same time period as the performance testing while the vent stream is normally routed and constituted;
- C) If a carbon absorber is the final recovery device in the recovery system, the total steam mass or volumetric flow measured at least every 15 minutes and averaged over the same time period as the performance testing (full carbon bed cycle), the temperature of the carbon bed after regeneration (and within 15 minutes of completing any cooling cycle or cycles), and duration of the carbon bed steaming cycle (all measured while the vent stream is normally routed and constituted);
- D) As an alternative to subsection (a)(4)(A), (a)(4)(B), or (a)(4)(C), the concentration level or reading indicated by the organic monitoring device at the outlet of the absorber, condenser, or carbon absorber, measured at least every 15 minutes and averaged over the same time period as the performance testing (measured while the vent stream is normally routed and constituted); or
- E) All measurements and calculations performed to determine the flow rate, VOM concentration, heating value, and TRE index value of the vent stream.

- b) Every owner or operator of a reactor or distillation unit with a TRE index value of less than 4.0 is subject to the exceedance reporting requirements of the draft Enhanced Monitoring Guidelines as published at 58 Fed. Reg. 54648 (October 22, 1993).
- c) Every owner or operator of a source seeking to comply with Section 218.432(b) must maintain records of the following:

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- 1) Any changes in production capacity, feedstock type, or catalyst type or of any replacement, removal, or addition of recovery equipment or reactors and distillation units; and
- 2) Any recalculation of the flow rate, VOM concentration, or TRE index value calculated under subsection (c) of Appendix G.
- d) Every owner or operator of a source claiming a design capacity of less than 1 gigagram (1,100 tons) per year under Section 218.431(b) must maintain records of the design capacity or any changes in equipment or operations that may affect the design capacity.
- e) Every owner or operator of a source claiming a vent stream flow rate or vent stream concentration exemption level under Section 218.431(b)(5) must maintain records to indicate that the stream flow rate is less than 0.0085 scm/min or the vent stream concentration is less than 500 ppmv.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.436 Compliance Date

Every owner or operator of a source subject to Sections 218.431, 218.432, 218.433, 218.434, or 218.435 must comply with its standards, limitations, and mandates by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

**SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT
MATERIALS**

Section 218.441 Petroleum Refinery Waste Gas Disposal

- a) Except under subsection (b) or (c), a person must not cause or allow the discharge of organic materials exceeding 100 ppm equivalent methane (molecular weight 16.0) into the atmosphere from:
- 1) Any catalyst regenerator of a petroleum cracking system;
- 2) Any petroleum fluid coker; or

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- 3) Any other waste gas stream from any petroleum or petrochemical manufacturing process.
- b) Exception. Existing sources subject to subsection (a)(3) may alternatively, at their election, comply with the organic material emission limitations under Section 218.301 or 218.302. However, there must be no increase in emissions from the sources above the level of emissions on May 3, 1979.
- c) New Sources. Sources subject to subsection (a)(3), construction of which commenced on or after January 1, 1977, may, at their election, comply with the following emission limitations:
- 1) A maximum of 8 lbs/hr of organic material; or
 - 2) Emission of organic material exceeding the limitation of subsection (c)(1) is allowable if the emissions are controlled by air pollution control methods or equipment approved by the Agency that are capable of reducing by at least 85% the uncontrolled organic material that would otherwise be emitted to the atmosphere. The methods or equipment must be approved by the Agency and by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.442 Vacuum Producing Systems

An owner or operator of a petroleum refinery must not cause or allow the operation of any vacuum producing system unless the condensers, hot wells, and accumulators of the system are equipped with vapor loss control equipment, including piping, valves, flame arrestors, and hot wellcovers, to vent any VOM with a vapor pressure of at least 10.34 kPa (1.5 psia) at 294.3 °K (70 °F) to a heater, fire box, flare, refinery fuel gas system, or other equipment or system of equal emission control as approved by the Agency and by USEPA as a SIP revision. This Section does not apply to vacuum producing systems on lube units.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.443 Wastewater (Oil/Water) Separator

An owner or operator of a petroleum refinery must not operate any wastewater (oil/water)

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separator at a petroleum refinery unless the separator is equipped with air pollution control equipment capable of reducing by at least 85% the uncontrolled organic material emitted to the atmosphere. If no odor nuisance exists, the limitation of this Section does not apply if the vapor pressure of the organic material is below 10.34 kPa (1.5 psia) at 294.3 °K (70 °F) at all times.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.444 Process Unit Turnarounds

- a) An owner or operator of a petroleum refinery must not cause or allow a refinery process unit turnaround except in compliance with an operating procedure as approved by the Agency.
- b) Unless a procedure was already on file with the Agency by November 1, 1979, as part of an approved operating permit, the owner or operator of a petroleum refinery must submit to the Agency for approval a detailed procedure to reduce emissions of VOM during refinery process unit turnarounds from organic material with a vapor pressure of at least 10.34 kPa (1.5 psia) at 294.3 °K (70 °F). The Agency must not approve the procedure unless it provides for:
 - 1) Depressurization of the refinery process unit or vessel to a flare, refinery fuel gas system, or other equipment or system of equal emission control until the internal pressure from the vessel or unit is less than 5.0 psig before allowing the vessel to be vented to the atmosphere, as approved by the Agency and by USEPA as a SIP revision;
 - 2) Recordkeeping of the following items:
 - A) Each date that a refinery unit or vessel is shut down; and
 - B) The total estimated quantity of VOM emitted to the atmosphere and the duration of the emission in hours.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.445 Leaks: General Requirements

The owner or operator of a petroleum refinery must:

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- a) Develop a monitoring program plan consistent with Section 218.446;
- b) Conduct a monitoring program consistent with Section 218.447;
- c) Record all leaking components which have a VOM concentration exceeding 10,000 ppm consistent with Section 218.448;
- d) Identify each component consistent with the monitoring program plan submitted under Section 218.446;
- e) Repair and retest the leaking components as soon as possible within 22 days after the leak is found, but by June 1 for Section 218.447(a)(1), unless the leaking components cannot be repaired until the unit is shut down for turnaround; and
- f) Report to the Agency consistent with Section 218.449.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.446 Monitoring Program Plan for Leaks

The owner or operator of a petroleum refinery must prepare a monitoring program plan which contains, at a minimum:

- a) An identification of all refinery components and the period in which each will be monitored under Section 218.447;
- b) The format for the monitoring log required by Section 218.448;
- c) A description of the monitoring equipment to be used under Section 218.447; and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, and all leaking components so they are obvious to refinery personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.447 Monitoring Program for Leaks

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- a) The owner or operator of a petroleum refinery subject to Section 218.445 must, to detect leaks, conduct a component monitoring program consistent with the following provisions:
- 1) Test all pump seals, pipeline valves in liquid service, and process drains once between March 1 and June 1 of each year by methods in Section 218.105(g);
 - 2) Test all pressure relief valves in gaseous service, pipeline valves in gaseous service, and compressor seals once each quarter of each calendar year by methods in Section 218.105(g);
 - 3) Inaccessible valves may be tested once each calendar year instead of once each quarter of each calendar year;
 - 4) Visually observe all pump seals weekly;
 - 5) Immediately test any pump seal from which liquids are observed dripping;
 - 6) Test any relief valve within 24 hours after it has vented to the atmosphere; and
 - 7) Immediately test after repairing any component that was found leaking.
- b) Storage tank valves and pressure relief devices connected to an operating flare header or vapor recovery device are exempt from the monitoring requirements in subsection (a).
- c) The Agency or USEPA may require more frequent monitoring than would otherwise be required by subsection (a) for components which are demonstrated to have a history of leaking.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.448 Recordkeeping for Leaks

- a) The owner or operator of a petroleum refinery must maintain a monitoring log of leaking components, which must contain, at a minimum:
- 1) The name of the process unit where the component is located;

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be 1".

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- 8886
- 8887 2) The type of component (e.g., valve, seal);
- 8888
- 8889 3) The identification number of the component;
- 8890
- 8891 4) The date on which a leaking component is discovered;
- 8892
- 8893 5) The date on which a leaking component is repaired;
- 8894
- 8895 6) The date and instrument reading of the recheck procedure after a leaking
- 8896 component is repaired;
- 8897
- 8898 7) A record of the calibration of the monitoring instrument;
- 8899
- 8900 8) The identification number of leaking components which cannot be
- 8901 repaired until turnaround; and
- 8902
- 8903 9) The total number of components inspected and the total number of
- 8904 components found leaking during that monitoring period.
- 8905
- 8906 b) Copies of the monitoring log must be retained by the owner or operator for at least
- 8907 two years after the date on which the record was made or the report prepared.
- 8908
- 8909 c) Copies of the monitoring log must be made available to the Agency, upon verbal
- 8910 or written request, at any reasonable time.
- 8911

8912 (Source: Amended at 50 Ill. Reg. _____, effective

8913 _____))

8914

Section 218.449 Reporting for Leaks

The owner or operator of a petroleum refinery must:

- 8917
- 8918
- 8919 a) Submit a report to the Agency before July 1 and September 1 listing all leaking
- 8920 components identified under Section 218.447 but not repaired within 22 days, all
- 8921 leaking components awaiting unit turnaround, the total number of components
- 8922 inspected, and the total number of components found leaking;
- 8923
- 8924 b) Submit a signed statement with the report attesting that all monitoring and repairs
- 8925 were performed as required under Sections 218.445 through 218.448.
- 8926

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(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.450 Alternative Program for Leaks

The Agency may approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in Sections 218.446 through 218.449 upon a demonstration by the owner or operator of a petroleum refinery that the alternative program will provide refinery, Agency, and USEPA personnel with an equivalent ability to identify and repair leaking components. Any alternative program is allowed only if approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.451 Sealing Device Requirements

Except for safety pressure relief valves, an owner or operator of a petroleum refinery must not install or operate a valve at the end of a pipe or line containing VOMs unless the pipe or line is sealed with a second valve, blind flange, plug, cap, or other sealing device. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.452 Compliance Schedule for Leaks (Repealed)

(Source: Repealed at 50 Ill. Reg. _____, effective
_____)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS**Section 218.461 Manufacture of Pneumatic Rubber Tires**

The owner or operator of an undertread cementing, tread end cementing, or bead dipping operation at a pneumatic rubber tire manufacturing source must install and operate:

- a) A capture system with minimum capture efficiency of 65% by weight of VOM for tread end cementing or bead dipping operations and a capture system with a minimum capture efficiency of 55.5% by weight of VOM for undertread cementing; and

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- b) A control device that meets the requirements of one of the following:
- 1) A carbon adsorption system designed and operated to remove at least 90% of VOM by weight from the gases ducted to the control device;
 - 2) An afterburning system that oxidizes at least 90% of the captured nonmethane VOMs (VOM measured as total combustible carbon) to carbon dioxide and water; and
 - 3) An alternative VOM emission reduction system demonstrated to have at least a 90% overall reduction efficiency and approved by the Agency and by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.462 Green Tire Spraying Operations

The owner or operator of a green tire spraying operation at a pneumatic rubber tire manufacturing source must:

- a) Install and operate:
- 1) A capture system with a minimum capture efficiency of 90% by weight of VOM; and
 - 2) A control device that meets the requirements of one of the following:
 - A) A carbon adsorption system designed and operated to remove at least 90% of VOM by weight from the gases ducted to the control device;
 - B) An afterburning system that oxidizes at least 90% of the captured nonmethane VOM (measured as total combustible carbon) to carbon dioxide and water; or
 - C) An alternative VOM emission reduction system demonstrated to have at least a 90% overall reduction efficiency and approved by the Agency and by USEPA as a SIP revision.
- b) Substitute for the normal solvent-based mold release compound water-based

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sprays containing:

- 1) Only up to 5% by volume of VOM as applied for the inside of tires;
- 2) Only up to 10% by volume of VOM as applied for the outside of tires.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.463 Alternative Emission Reduction Systems

Instead of complying with Section 218.461 or 218.462, the owner or operator of an emission source may use an alternative VOM reduction system, including an alternative production process, which is demonstrated to be equivalent to Section 218.461 or 218.462 based on VOM emissions. A tread end cementing operation must be considered equivalent to Section 218.461 or 218.462 for this Section if the VOM emission from the operation is 10 grams or less per tire.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.464 Emission Testing

- a) Upon a reasonable request by the Agency, the owner or operator of a VOM emission source required to comply with a limit of Sections 218.461 through 218.464 must conduct emissions testing at that person's own expense to demonstrate compliance.
- b) A person planning to conduct a VOM emission test to demonstrate compliance must notify the Agency of that intent at least 30 days before the planned initiation of the tests so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 218.480 Applicability

- a) This Subpart, except for Sections 218.483 through 218.485, applies to all emission units of VOM, including reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers,

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- laboratory hoods, pharmaceutical coating operations, mixing operations, and centrifuges used in manufacturing, including packaging, of pharmaceuticals and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If the emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, this Subpart still applies if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).
- b) Despite subsection (a), the air suspension coater/dryer, fluid bed dryers, tunnel dryers, and Accelacotas located in Libertyville Township, Lake County, are exempt from this Subpart, except for Sections 218.483 through 218.485, if emissions of VOM not vented to air pollution control equipment do not exceed the following levels:
- 1) For the air suspension coater/dryer: 2,268 kg/year (2.5 tons/year);
 - 2) Except under subsection (b)(4), for each fluid bed dryer: 4,535 kg/year (5.0 tons/year);
 - ~~3)3)~~ Except under subsection (b)(4), for each tunnel dryer: 6,803 kg/year (7.5 tons/year);
 - ~~4)4)~~ For fluid bed dryers #1, #2, and #3 and for tunnel dryers #1, #2, #3, and #4, the combined total annual emissions from the dryers listed in this subsection (b)(4) must not exceed 18,688 kg/year (20.6 tons/year); and
- (BOARD NOTE: Tunnel dryers are otherwise referred to as warm air dryers.)
- 5) For each Accelacota: 6,803 kg/year (7.5 tons/year).
- c) Sections 218.483 through 218.485 apply to a source with one or more emission units that:
- 1) Are used to manufacture pharmaceuticals; and
 - 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268 kg/year (2.5 tons/year) of VOM. If less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).
- d) An owner or operator must not violate any condition in a permit when the

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condition results in excluding an emission unit from this Subpart.

- e) Any pharmaceutical manufacturing source that becomes subject to this Subpart at any time remains subject to this Subpart at all times.
- f) Emissions subject to this Subpart must be controlled at all times consistent with the requirements of this Subpart.
- g) Any control device required under this Subpart must be operated at all times when the source it is controlling is operated.
- h) Determinations of daily and annual emissions for this Section must be made using both data on the hourly emission rate (or the emissions per unit of throughput) and appropriate daily and annual data from records of emission unit operation (or material throughput or material consumption data). In the absence of representative test data under Section 218.487 for the hourly emission rate (or the emissions per unit of throughput), these items must be calculated using engineering calculations, including the methods in Appendix B of "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products" (EPA-450/2-78-029), incorporated by reference in Section 218.112. This subsection does not affect the Agency's or USEPA's authority to require emission tests to be performed under Section 218.487.
- i) Equipment and operations emitting VOM at a source subject to subsection (a) or (c) and used to produce pharmaceutical products or a pharmaceutical-like product, such as a hormone, enzyme, or antibiotic, must be deemed to be engaged in manufacturing pharmaceuticals for this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges, and Vacuum Dryers

- a) The owner or operator must equip all reactors, distillation units, crystallizers, centrifuges, and vacuum dryers that are used to manufacture pharmaceuticals with surface condensers or other air pollution control equipment listed in subsection (b). If a surface condenser is used, it must be operated so that the condenser outlet gas temperature does not exceed:
- 1) 248.2 °K (-13 °F) when condensing VOM of vapor pressure greater than

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40.0 kPa (5.8 psi) at 294.3 °K (70 °F);

- 2) 258.2 °K (5 °F) when condensing VOM of vapor pressure greater than 20.0 kPa (2.9 psi) at 294.3 °K (70 °F);
- 3) 273.2 °K (32 °F) when condensing VOM of vapor pressure greater than 10.0 kPa (1.5 psi) at 294.3 °K (70 °F);
- 4) 283.2 °K (50 °F) when condensing VOM of vapor pressure greater than 7.0 kPa (1.0 psi) at 294.3 °K (70 °F); or
- 5) 298.2 °K (77 °F) when condensing VOM of vapor pressure greater than 3.45 kPa (0.5 psi) at 294.3 °K (70 °F).

- b) If a scrubber, carbon adsorber, thermal afterburner, catalytic afterburner, or other air pollution control equipment other than a surface condenser is used, the equipment must reduce VOM emissions by at least 90%.
- c) The owner or operator must enclose all centrifuges used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at 294.3 °K (70 °F), except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.482 Control of Air Dryers, Production Equipment Exhaust Systems, and Filters

- a) The owner or operator of an air dryer or production equipment exhaust system used to manufacture pharmaceuticals must control the emissions of VOM from the emission unit by air pollution control equipment which reduces by at least 90% the VOM that would otherwise be emitted into the atmosphere.
- b) The owner or operator must enclose all rotary vacuum filters and other filters used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at 294.3 °K (70 °F), except as production, sampling, maintenance, or inspection procedures require operator access.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.483 Material Storage and Transfer

The owner or operator of a pharmaceutical manufacturing source must:

- a) Provide a vapor balance system that is at least 90% effective in reducing VOM emissions from truck or railcar deliveries to storage tanks with capacities of at least 7.57 m³ (2,000 gal) that store VOL with vapor pressures greater than 28.0 kPa (4.1 psi) at 294.3 °K (70 °F); and
- b) Install, operate, and maintain pressure/vacuum conservation vents set at 0.2 kPa (0.03 psi) or greater on all storage tanks that store VOL with vapor pressures greater than 10 kPa (1.5 psi) at 294.3 °K (70 °F).

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.484 In-Process Tanks

The owner or operator must install covers on all in-process tanks used to manufacture pharmaceuticals and containing a VOL at any time. These covers must remain closed, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.485 Leaks

The owner or operator of a pharmaceutical manufacturing source must repair any component from which a leak of VOL can be observed. The repair must be completed as soon as practicable but within 15 days after the leak is found. If the leaking component cannot be repaired until the process unit is shut down, the leaking component must then be repaired before the unit is restarted.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.486 Other Emission Units

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The owner or operator of a washer, laboratory hood, tablet coating operation, mixing operation, or any other process emission unit not subject to Sections 218.481 through 218.485 and used to manufacture pharmaceuticals must control VOM emissions from the emission units by:

- a) Air pollution control equipment which reduces by at least 81% or more the VOM that would otherwise be emitted to the atmosphere; or
- b) A surface condenser which captures all the VOM which would otherwise be emitted to the atmosphere and meets the requirements of Section 218.481(a).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.487 Testing

- a) Upon request by the Agency or USEPA, the owner or operator of any VOM source subject to this Subpart or exempt from this Subpart under Section 218.480 must at ~~its own~~ its own expense demonstrate compliance to the Agency and USEPA by the methods or procedures in Section 218.105(f)(1).
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart must notify the Agency and USEPA of that intent at least 30 calendar days before the planned initiation of the test.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.488 Monitoring for Air Pollution Control Equipment

- a) At a minimum, continuous monitors for the following parameters must be installed on air pollution control equipment used to control sources subject to this Subpart:
 - 1) Destruction device combustion temperature.
 - 2) Temperature rise across a catalytic afterburner bed.
 - 3) VOM concentration on a carbon adsorption unit to determine breakthrough.
 - 4) Outlet gas temperature of a refrigerated condenser.

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- 9255
- 9256 5) Temperature of a non-refrigerated condenser coolant supply system.
- 9257
- 9258 b) Each monitor must be equipped with a recording device.
- 9259
- 9260 c) Each monitor must be calibrated quarterly.
- 9261
- 9262 d) Each monitor must operate at all times while the associated control equipment is
- 9263 operating.
- 9264

9265 (Source: Amended at 50 Ill. Reg. _____, effective

9266 _____)

9267

Section 218.489 Recordkeeping for Air Pollution Control Equipment

9268

9269

- 9270 a) The owner or operator of a pharmaceutical manufacturing source must maintain
- 9271 the following records:
- 9272
- 9273 1) Parameters in Section 218.488(a) must be recorded.
- 9274
- 9275 2) For emission units subject to Section 218.481, the vapor pressure of VOM
- 9276 being controlled must be recorded for every process.
- 9277
- 9278 b) For any leak subject to Section 218.485 which cannot be readily repaired within
- 9279 one hour after detection, the following records must be kept:
- 9280
- 9281 1) The name of the leaking equipment;
- 9282
- 9283 2) The date and time the leak is detected;
- 9284
- 9285 3) The action taken to repair the leak; and
- 9286
- 9287 4) The date and time the leak is repaired.
- 9288
- 9289 c) The following records must be kept for emission units subject to Section 218.484
- 9290 which contain VOL:
- 9291
- 9292 1) For maintenance and inspection:
- 9293
- 9294 A) The date and time each cover is opened;
- 9295

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- 9296 B) The length of time the cover remains open; and
9297
9298 C) The reason why the cover is opened.
9299
9300 2) For production and sampling, detailed written procedures or
9301 manufacturing directions specifying the circumstances under which covers
9302 may be opened and the procedures for opening covers.
9303
9304 d) For each emission unit used to manufacture pharmaceuticals for which the owner
9305 or operator of a pharmaceutical manufacturing source claims emission standards
9306 do not apply because the emissions are below the applicability cutoffs in Section
9307 218.480(a) or 218.480(b), the owner or operator must:
9308
9309 1) Maintain a demonstration, including detailed engineering calculations of
9310 the maximum daily and annual emissions for each emission unit, showing
9311 that the emissions are below the applicability cutoffs in Section 218.480(a)
9312 or 218.480(b), as appropriate, for the current and prior calendar years;
9313
9314 2) Maintain appropriate operating records for each emission source to
9315 identify whether the applicability cutoffs in Section 218.480(a) or
9316 218.480(b), as appropriate, are ever exceeded; and
9317
9318 3) Provide written notification to the Agency and USEPA within 30 days
9319 after determining that an emission unit has exceeded the applicability
9320 cutoffs in Section 218.480(a) or 218.480(b), as appropriate.
9321
9322 e) Records required under subsection (a) must be maintained by the owner or
9323 operator for at least two years after the date on which they are made.
9324
9325 f) Copies of the records must be made available to the Agency or USEPA upon
9326 verbal or written request.
9327

9328 (Source: Amended at 50 Ill. Reg. _____, effective
9329 _____)
9330

SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

Section 218.500 Applicability for Batch Operations

- 9333 a) The control requirements in Section 218.501 apply to:
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- 9337
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9345
- 1) Process vents associated with batch operations at sources identified by any of the following four-digit standard industrial classification ("SIC") codes, as defined in the 1987 edition of the Federal Standard Industrial Classification Manual: SIC 2821, 2833, 2834, 2861, 2865, 2869, and 2879, incorporated by reference in Section 218.112; and
- 9346
9347
- b) Sections 218.500 through 218.506 do not apply to:
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- 1) Any emission unit included in Subpart B or T;
- 2) Any emission unit included in Sections 218.520 through 218.527; and
- 3) Any emission unit included within an Early Reduction Program under 40 CFR Part 63 and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.
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- c) The following single unit operations and batch process trains are subject to this Subpart but are considered to be de minimis and exempt from the control requirements of Section 218.501. However, the recordkeeping and reporting requirements in Section 218.505 apply to these de minimis single unit operations and batch process trains:
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9371
- 1) Within a batch operation, any single unit operation with uncontrolled total annual mass emissions of 500 lb/yr or less of VOM. These single unit operations are also excluded from the calculation of the total annual mass emissions for a batch process train. If the uncontrolled total annual mass emissions from an exempt single unit operation exceed 500 lb/yr of VOM in any subsequent year, the source must calculate applicability in compliance with subsection (d) for both the individual single unit operation and the batch process train containing the single unit operation; and
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- 2) Any batch process train containing process vents that have aggregate uncontrolled total annual mass emissions, as determined in compliance with Section 218.502(a), of less than 30,000 lb/yr of VOM for all products manufactured in the batch process train.
- 9377
- d) The applicability equations in subsection (e), which require calculating

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uncontrolled total annual mass emissions and flow rate value, must be used to determine whether a single unit operation or a batch process train is subject to the control requirements in Section 218.501. The applicability equation must be applied to the following:

- 1) Any single unit operation with uncontrolled total annual mass emissions that exceed 500 lb/yr and with a VOM concentration greater than 500 ppmv. In this individual determination, no applicability analysis is performed for any single unit operation with a VOM concentration of 500 ppmv or less; and
- 2) Any batch process train containing process vents which have aggregate uncontrolled total annual mass emissions of 30,000 lb/yr or more of VOM from all products manufactured in the batch process train. Any single unit operation with uncontrolled total annual mass emissions exceeding 500 lb/yr, regardless of VOM concentration, must be included in the aggregate applicability analysis.

e) Applicability equations

- 1) The applicability equations in this subsection are specific to volatility.

- 2) For this subsection, the following abbreviations apply:

~~A)~~	~~FR~~	~~= Vent stream flow rate, scfm;~~
<u>A)</u>	<u>FR</u>	<u>= Vent stream flow rate, scfm;</u>
~~B)~~	~~UTAME~~	~~= Uncontrolled total annual mass emissions of VOM, expressed as lb/year;~~
<u>B)</u>	<u>UTAME</u>	<u>= Uncontrolled total annual mass emissions of VOM, expressed as lb/year;</u>
~~C)~~	~~WAV~~	~~= Weighted average volatility;~~
<u>C)</u>	<u>WAV</u>	<u>= Weighted average volatility;</u>
~~D)~~	~~MVOM_i~~	~~= Mass of VOM component i;~~
<u>D)</u>	<u>MVOM_i</u>	<u>= Mass of VOM component i;</u>
~~E)~~	~~MWVOM_i~~	~~= Molecular weight of VOM component i; and~~
<u>E)</u>	<u>MWVOM_i</u>	<u>= Molecular weight of VOM component i; and</u>
~~F)~~	~~VP_i~~	~~= Vapor pressure of VOM component i.~~
<u>F)</u>	<u>VP_i</u>	<u>= Vapor pressure of VOM component i.</u>

~~B) — UTAME = Uncontrolled total annual mass emissions of VOM, expressed as lb/yr;~~

~~C) WAV = Weighted average volatility;~~

~~D) MVOM_i = Mass of VOM component i;~~

~~E) MWVOM_i = Molecular weight of VOM component i; and~~

~~F) VP_i = Vapor pressure of VOM component i.~~

- 3) Weighted average volatility must be calculated as follows:

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Remove extra lines between A) through
F) remove extra spaces after B)

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(Mod)

$$WAV = \frac{\sum_i [(PP) \cdot \frac{(MPPOM_i)}{(MPPVOM_i)}]}{\sum_i \frac{(MPPOM_i)}{(MPPVOM_i)}}$$

- 4) To determine applicability, flow rate values must be calculated as follows:

- A) Low WAV has a vapor pressure less than or equal to 75 mmHg at 20 °C (68 °F) and must use the following equation:

(Add): $[0.07(UTAME)] - 1821$

$FR = [0.07(UTAME)] - 1,821$

- B) Moderate WAV has a vapor pressure greater than 75 mmHg but less than or equal to 150 mmHg at 20 °C (68 °F) and must use the following equation:

$FR = [0.031(UTAME)] - 494$

(Add): $[0.031(UTAME)] - 494$

- C) High WAV has a vapor pressure greater than 150 mmHg at 20 °C (68 °F) and must use the following equation:

$FR = [0.013(UTAME)] - 301$

(Add): $[0.013(UTAME)] - 301$

- 5) To determine the vapor pressure of VOM, the applicable methods and procedures in Section 218.111 apply.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Should be aligned under the above paragraph

Section 218.501 Control Requirements for Batch Operations

- a) Every owner or operator of a single unit operation with an average flow rate, as determined in compliance with Section 218.502(b), below the flow rate value calculated by the applicability equations in Section 218.500(e), must reduce uncontrolled VOM emissions from the single unit operation by an overall efficiency, on average, of at least 90% or 20 ppmv per batch cycle.

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- b) Every owner or operator of a batch process train with an average flow rate, as determined in compliance with Section 218.502(b)(2), below the flow rate value calculated by the applicability equations in Section 218.500(e), must reduce uncontrolled VOM emissions from the batch process train by an overall efficiency, on average, of at least 90% or 20 ppmv per batch cycle. To demonstrate compliance with the emission limitations in this Section, any control device meeting the criteria in subsection (c) must be deemed to achieve a control efficiency of 90% or 20 ppmv per batch cycle, as applicable.
- c) Despite subsections (a) or (b), any source that has installed on or before March 15, 1995, any control device which is demonstrated to the Agency's satisfaction to be unable to meet the applicable control requirements of this Section, scrubber, or shell and tube condenser using a non-refrigerated cooling media, and achieves at least 81% control efficiency of VOM emissions, must meet the 90% emission limitation or 20 ppmv VOM concentration in subsections (a) or (b), as applicable, upon the date the device is replaced for any reason, including normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A scrubber, shell and tube condenser using a non-refrigerated cooling media, or other control device meeting the criteria of this subsection, is considered replaced when:
- 1) The entire device is replaced; or
 - 2) Either the cost to repair the device or the cost to replace part of the device exceeds 50% of the cost to replace the entire device with a control device that complies with the 90% emission limitation or 20 ppmv VOM concentration level in subsection (a), as applicable.
- d) If a boiler or process heater is used to comply with this Section, the vent stream must be introduced into the flame zone of the boiler or process heater.
- e) If a flare is used to comply with this Section, it must comply with 40 CFR 60.18, incorporated by reference at Section 218.112. The flare operation requirements of 40 CFR 60.18 do not apply if a process not subject to this Subpart vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with one or more of the provisions of 40 CFR 60.18.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.502 Determining Uncontrolled Total Annual Mass Emissions and Average Flow Rate Values for Batch Operations

- a) Uncontrolled total annual mass emissions must be determined by the following methods:
- 1) Direct process vent emissions measurements taken before any release to the atmosphere, following any recovery device, and before any control device, if the measurements conform with the requirements of measuring the mass flow rate of VOM incoming to the control device ~~under~~under Section 218.503(f)(2), (f)(3)(A), and (f)(3)(B); or
 - 2) Engineering estimates of the aggregate uncontrolled VOM emissions from a process vent or process vents within a batch process train, using either the potential or permitted number of batch cycles per year or total production under the source's operating permit as follows:
 - A) Engineering estimates of the uncontrolled VOM emissions must be based upon accepted chemical engineering principles, measurable process parameters, or physical or chemical laws and their properties. Examples of methods include:
 - i) Use of material balances based on process stoichiometry to estimate maximum VOM concentrations;
 - ii) Estimation of maximum flow rate based on physical equipment design, such as pump or blower capacities; and
 - iii) Estimation of VOM concentrations based on saturation conditions.
 - B) All data, assumptions, and procedures used in any engineering estimate must be documented.
- ~~B)~~b) Average flow rate must be determined by any of the following methods:
- 1) Direct process vent flow rate measurements taken before any release to the atmosphere, following any recovery device, and before any control device, if the measurements conform with the requirements of measuring incoming volumetric flow rate in Section 218.503(e)(2);

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- 2) Average flow rate for a single unit operation with multiple emission events or batch process trains must be the weighted average flow rate, calculated as follows:

$$\text{(Mod.) } \overline{WAF} = \frac{\sum_{i=1}^n [AFR_i \times ADE_i]}{\sum_{i=1}^n (ADE_i)}$$

where:

WAF = Actual weighted average flow rate for a single unit operation or batch process train;

WAF = Actual weighted average flow rate for a single unit operation or batch process train;

AFR_i = Average flow rate per emission event;

ADE_i = Annual duration of emission event; and

n = Number of emission events.

~~AFR_i = Average flow rate per emission event;~~

~~ADE_i = Annual duration of emission event; and~~

~~n = Number of emission events.~~

For this formula, "emission event" means a discrete period of venting that is associated with a single unit operation. For example, a displacement of vapor resulting from the charging of a single unit operation with VOM will result in a discrete emission event that will last through the duration of the charge and will have an average flow rate equal to the rate of the charge. The expulsion of expanded vapor space when the single unit operation is heated is also an emission event. Both examples of emission events and others may occur in the same single unit operation during the batch cycle. If the flow rate measurement for any emission event is zero according to Section 218.503(f)(2), then the event is not an emission event for this Section.

- 3) Engineering estimates calculated in compliance with subsection (a)(2).

- c) To determine the average flow rate for steam vacuuming systems, the steam flow must be included in the average flow rate calculation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Below examples should be aligned under this paragraph

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Section 218.503 Performance and Testing Requirements for Batch Operations

- 9564
9565
9566 a) Upon the Agency's request, the owner or operator of a batch operation must
9567 conduct testing to demonstrate compliance with Section 218.501. The owner or
9568 operator must at its own expense conduct the tests in compliance with the
9569 applicable test methods and procedures in Section 218.503(d), (e), and (f).
9570
9571 b) Despite subsection (a), flares and process boilers used to comply with control
9572 requirements of Section 218.501 are exempt from performance testing
9573 requirements.
9574
9575 c) When a flare is used to comply with the control requirements of Section 218.501,
9576 the flare must comply with 40 CFR 60.18, incorporated by reference at Section
9577 218.112.
9578
9579 d) The owner or operator of a batch operation that is exempt from the control
9580 requirements of Section 218.501 must demonstrate upon the Agency's request the
9581 absence of oversized gas moving equipment in any manifold. Gas moving
9582 equipment must be considered oversized if it exceeds the maximum requirements
9583 of the exhaust flow rate by more than 30%.
9584
9585 e) To determine compliance with the control requirements in Section 218.501, the
9586 batch operation must be run at representative operating conditions and flow rates
9587 during any performance test.
9588
9589 f) The following methods in 40 CFR 60.Appendix A, incorporated by reference at
9590 Section 218.112, must be used to demonstrate compliance with the reduction
9591 efficiency requirement in Section 218.501:
9592
9593 1) Method 1 or 1A, as appropriate, to select sampling sites if the flow
9594 measuring device is not a rotameter. The control device inlet sampling
9595 site to determine vent stream VOM composition reduction efficiency must
9596 be before the control device and after the control device;
9597
9598 2) Method 2, 2A, 2C, or 2D, as appropriate, to determine gas stream
9599 volumetric flow rate flow measurements, which must be taken
9600 continuously. No traverse is necessary when the flow measuring device is
9601 an ultrasonic probe;
9602

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- 3) Method 25A or Method 18, if applicable, to determine the concentration of VOM in the control device inlet and outlet;
- A) The sampling time for each run must be as follows:
- i) For batch cycles less than eight hours long, if using Method 25A, readings must be taken continuously over the entire length of the batch cycle with a maximum of 15-minute intervals between measurements. If using Method 18, readings must be taken continuously with a maximum of 15-minute intervals between measurements throughout the batch cycle unless it becomes necessary to change the impinger train, in which case a 30-minute interval must not be exceeded.
- ii) For batch cycles at least eight hours long, the owner or operator may either test in compliance with the test procedures in subsection (f)(3)(A)(i) or elect to perform tests under either Method 25A or Method 18 during only those portions of each emission event which define the emission profile of each emission event occurring within the batch cycle. For each emission event lasting less than four hours, the owner or operator must test continuously over the entire emission event under subsection (f)(3)(A)(i). For each emission event lasting more than four hours, the owner or operator must elect to perform at least one-hour test runs during the emission event or test continuously over the entire emission event within each single unit operation in the batch process train. To demonstrate that the portion of the emission event to be tested defines the emission profile for the emission event, the owner or operator electing to rely on this option must develop an emission profile for the entire emission event. The emission profile must be based on either process knowledge or test data collected. Examples of information that could constitute process knowledge include calculations based on material balances and process stoichiometry. Previous test results may be used if the results are still relevant to the current process vent stream conditions.

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- 9644 iii) For subsection (f)(3), "emission event" means a discrete
9645 period of venting that is associated with a single unit
9646 operation. For example, a displacement of vapor resulting
9647 from the charging of a single unit operation with VOM will
9648 result in a discrete emission event that will last through the
9649 duration of the charge and will have an average flow rate
9650 equal to the rate of the charge. The expulsion of expanded
9651 single unit operation vapor space when the vessel is heated
9652 is also an emission event. Both examples of emission
9653 events and others may occur in the same single unit
9654 operation during the batch cycle. If the flow rate
9655 measurement for any emission event is zero in compliance
9656 with subsection (f)(2), then the event is not an emission
9657 event for this Section.
9658
- 9659 B) The mass emission rate from the process vent or inlet to the control
9660 device must be determined by combining concentration and flow
9661 rate measurements taken simultaneously at sampling sites selected
9662 in compliance with subsection (f)(1) throughout the batch cycle;
9663
- 9664 C) The mass emission rate from the control device outlet must be
9665 obtained by combining concentration and flow rate measurements
9666 taken simultaneously at sampling sites selected in compliance with
9667 subsection (f)(1) throughout the batch cycle; and
9668
- 9669 D) The efficiency of the control device must be determined by
9670 integrating the mass emission rates obtained in subsections
9671 (f)(3)(B) and (f)(3)(C) over the time of the batch cycle and
9672 dividing the difference in inlet and outlet mass flow totals by the
9673 inlet mass flow total.
9674
- 9675 g) Upon request by the Agency to conduct testing, an owner or operator of a batch
9676 operation which has installed a scrubber, a shell and tube condenser using a
9677 non-refrigerated cooling media, or any other control device which meets the
9678 criteria of Section 218.501(c), must demonstrate that the device achieves the
9679 control efficiency under Section 218.501 upon the date the device is replaced or
9680 December 31, 1999, whichever is earlier.
9681
- 9682 h) The owner or operator of a batch operation may propose an alternative test
9683 method or procedures to demonstrate compliance with the control requirements in
9684 Section 218.501. The method or procedures must be approved by the Agency and

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USEPA through federally enforceable permit conditions.

- i) Without a request by the Agency to conduct performance testing in compliance with this Section, a source may demonstrate compliance by using engineering estimates or process stoichiometry.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.504 Monitoring Requirements for Batch Operations

- a) Every owner or operator using an afterburner to comply with Section 218.501 must install, calibrate, maintain, and operate according to manufacturer's specifications temperature monitoring devices with an accuracy of $\pm 1\%$ of the temperature being measured expressed in degrees Celsius, equipped with continuous recorders.
- 1) If a catalytic afterburner is used, temperature monitoring devices must be installed in the gas stream immediately before and after the catalyst bed.
- 2) If an afterburner other than a catalytic afterburner is used, a temperature monitoring device must be installed in the combustion chamber.
- b) Every owner or operator using a flare to comply with Section 218.501 must install, calibrate, maintain, and operate according to manufacturer's specifications a heat sensing device, such as an ultra-violet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a flame.
- c) Every owner or operator using a scrubber to comply with Section 218.501 must install, calibrate, maintain, and operate according to manufacturer's specifications:
- 1) A temperature monitoring device for scrubbant liquid having an accuracy of $\pm 1\%$ of the temperature being monitored expressed in degrees Celsius and a specific gravity device for scrubbant liquid, each equipped with a continuous recorder; or
- 2) A VOM monitoring device used to indicate the concentration of VOM exiting the control device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.

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- 9726 d) Every owner or operator using a condenser to comply with Section 218.501 must
9727 install, calibrate, maintain, and operate according to manufacturer's specifications:
9728
- 9729 1) A condenser exit temperature monitoring device equipped with a
9730 continuous recorder and having an accuracy of $\pm 1\%$ of the temperature
9731 being monitored expressed in degrees Celsius; or
9732
- 9733 2) A VOM monitoring device used to indicate the concentration of VOM
9734 such as infra-red, photoionization, or thermal conductivity, each equipped
9735 with a continuous recorder.
9736
- 9737 e) Every owner or operator using a carbon absorber to comply with this Subpart
9738 must install, calibrate, maintain, and operate according to the manufacturer's
9739 specifications:
9740
- 9741 1) An integrating regeneration steam flow monitoring device with an
9742 accuracy of $\pm 10\%$ and a carbon bed temperature monitoring device with
9743 an accuracy of $\pm 1\%$ of the temperature being monitored expressed in
9744 degrees Celsius, both equipped with a continuous recorder; or
9745
- 9746 2) A VOM monitoring device used to indicate the concentration level of
9747 VOM exiting the device based on a detection principle such as infra-red,
9748 photoionization, or thermal conductivity, each equipped with a continuous
9749 recorder.
9750
- 9751 f) Every owner or operator using a boiler or process heater with a design heat input
9752 capacity less than 44 Mw to comply with Section 218.501 must install, calibrate,
9753 maintain, and operate according to the manufacturer's specifications a temperature
9754 monitoring device in the firebox with an accuracy of $\pm 1\%$ of the temperature
9755 being measured expressed in degrees Celsius, equipped with a continuous
9756 recorder. Any boiler or process heater in which all process vent streams are
9757 introduced with primary fuel is exempt from this requirement.
9758
- 9759 g) The owner or operator of a process vent will be permitted to monitor by an
9760 alternative method or may monitor parameters other than those in subsections (a)
9761 through (f) if approved by the Agency and USEPA. The alternative method or
9762 parameters must be in the source's operating permit as federally enforceable
9763 permit conditions.
9764
- 9765 h) Despite subsections (a) through (g), sources using a scrubber, shell and tube
9766 condenser using a non-refrigerated cooling media, or other control device meeting

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the criteria of Section 218.501(c) are required to monitor compliance with this Subpart on and after the the date the device is replaced for any reason or December 31, 1999, whichever is earlier.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.505 Reporting and Recordkeeping for Batch Operations

- a) Every owner or operator of a de minimis single unit operation or batch process train exempt under Section 218.500(c)(1) or (c)(2) must keep records of the uncontrolled total annual mass emissions for any de minimis single unit operation or batch process train, as applicable, and documentation verifying these values or measurements. The documentation must include the engineering calculations, any measurements made in compliance with Section 218.503, and the potential or permitted number of batch cycles per year or, in the alternative, total production as represented in the source's operating permit.
- b) Every owner or operator of a single unit operation exempt under Section 218.500(b)(3) or (d) must keep the following records:
 - 1) The uncontrolled total annual mass emissions and documentation verifying these values or measurements. The documentation must include any engineering calculations, any measurements made in compliance with Section 218.503, and the potential or permitted number of batch cycles per year or, in the alternative, total production under the source's operating permit.
 - 2) The average flow rate in scfm and documentation verifying this value.
- c) Every owner or operator of a batch operation subject to the control requirements of Section 218.501 must keep records of the following parameters required to be monitored under Section 218.504:
 - 1) If using a thermal or catalytic afterburner to comply with Section 218.501, records indicating the average combustion chamber temperature of the afterburner (or the average temperature upstream and downstream of the catalyst bed for a catalytic afterburner), measured continuously and averaged over the same time period as the performance test.
 - 2) If using a flare (i.e., steam-assisted, air-assisted, or nonassisted) to comply

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with Section 218.501, continuous records of the flare pilot flame monitoring and records of all periods of operations during which the pilot flame is absent.

- 3) If using any of the following as a control device, the following records:
- A) Where a scrubber is used, the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid saturation, if approved by the Agency) and the average exit temperature of the absorbing liquid, measured continuously and averaged over the same time period as the performance test (both measured while the vent stream is routed normally);
 - B) Where a condenser is used, the average exit (product side) temperature measured continuously and averaged over the same time period as the performance test while the vent stream is routed normally;
 - C) Where a carbon adsorber is used, the total steam mass flow measured continuously and averaged over the same time period as the performance test (full carbon bed cycle), temperature of the carbon bed after regeneration (and within 15 minutes after completion of any cooling cycle(s)), and duration of the carbon bed steaming cycle (all measured while the vent stream is routed normally); or
 - D) As an alternative to subsection (c)(3)(A), (c)(3)(B), or (c)(3)(C), at a minimum, records indicating the concentration level or reading indicated by the VOM monitoring device at the outlet of the scrubber, condenser, or carbon adsorber, measured continuously and averaged over the same time period as the performance test (while the vent stream is routed normally).
-  d) Every owner or operator of a single unit operation claiming a vent stream concentration exemption level under Section 218.500(d)(1) must maintain records to indicate the vent stream concentration is 500 ppmv or less and must notify the Agency in writing if the vent stream concentration at any time equals or exceeds 500 ppmv, within 60 days after the event. The notification must include a copy of all records of the event.
- e) An owner or operator of a batch operation subject to the control requirements of

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Section 218.501 may maintain alternative records other than those in subsection (c). Any alternative recordkeeping must be approved by the Agency and USEPA and must be in the source's operating permit as federally enforceable permit conditions.

- f) Despite subsections (a) through (e), any owner or operator of a batch operation which uses either a scrubber, shell and tube condenser using non-refrigerated cooling media, or other control device meeting the criteria of Section 218.501(c) must monitor compliance with this Subpart on and after the date the device is replaced for any reason or December 31, 1999, whichever is earlier.
- g) The owner or operator of a de minimis single unit operation or batch process train exempt from the control requirements of Section 218.500(c) must notify the Agency in writing if the uncontrolled total annual mass emissions from the de minimis single unit operation or batch process train exceed the threshold in Section 218.500(c)(1) or (c)(2), respectively, within 60 days after the event occurs. The notification must include a copy of all records of the event.
- h) Every owner or operator of a batch operation required to keep records under this Section must maintain the records at the source for at least three years and must make all the records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.506 Compliance Date

Every owner or operator of a batch operation subject to Sections 218.500 through 218.506 must comply with its requirements by March 15, 1996, or upon initial startup, whichever is later.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.520 Emission Limitations for Air Oxidation Processes

- a) A person must not cause or allow the emission of VOM from any process vent stream unless the process vent stream is vented to a combustion device which is designed and operated either:
- 1) To reduce the volatile organic emissions vented to it with an efficiency of at least 98% by weight; or

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- 2) To emit VOM at a concentration less than 20 ppm by volume, dry basis.
- b) Combustion Device at a Phthalic Anhydride Air Oxidation Process
- 1) Despite subsection (a) and subject to subsection (b)(2), a person must not cause or allow the emissions of VOM through an existing combustion device at a phthalic anhydride air oxidation process, unless the combustion device is operated to achieve:
- A) 90% control of the volatile organic emissions vented to it; or
- B) VOM emissions concentration of less than 50 ppm by volume, dry basis.
- 2) Any existing combustion device subject to subsection (b)(1) must meet the 98% emissions limit in subsection (a) either upon replacing the combustion device for any reasons, including normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever comes first. A combustion device is considered replaced when:
- ~~A) A~~ The entire device is replaced; or
- B) When the cost of the repair of the device or the cost of replacement of part of the device exceeds 50% of the cost to replace the entire device with a device which complies.
- c) The limitations of subsection (a) apply to any process vent stream or combination of process vent streams with a TRE index less than or equal to 6.0. TRE must be determined by the following methods:
- 1) If an air oxidation process has more than one process vent stream, TRE must be the more stringent of either the TRE based on a combination of the process vent streams or the TRE based on each individual process vent stream.
- 2) The TRE of a process vent stream and the TRE of a combination of process vent streams, whichever is applicable, must be determined according to the following equation:

$$(\text{Mod}) = \frac{E(-1)(a + bF(a) + cF + dF^2 + eF \times H(a) + F(0.5))}{F(0.5)}$$

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where:

<u>n</u>	=	<u>0.88;</u>
<u>TRE</u>	=	<u>Total resource effectiveness index;</u>
<u>F</u>	=	<u>Vent stream flowrate (scm/min), at a standard temperature of 20 °C;</u>
<u>E</u>	=	<u>Hourly measured emissions in kg/hr;</u>
<u>H</u>	=	<u>Net heating value of vent stream (MJ/scm), where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of "Flow";</u>
<u>a,b,c,d,e, and f</u>	=	<u>Coefficients obtained by use of Appendix D.</u>

~~n~~	=	~~0.88;~~
~~TRE~~	=	~~Total resource effectiveness index;~~
~~F~~	=	~~Vent stream flowrate (scm/min), at a standard temperature of 20 °C;~~
~~E~~	=	~~Hourly measured emissions in kg/hr;~~
~~H~~	=	~~Net heating value of vent stream (MJ/scm), where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of "Flow";~~
~~a, b, c, d, e, and f~~	=	~~Coefficients obtained by use of Appendix D.~~

- 3) For nonchlorinated process vent streams, if the net heating value H is greater than 3.6 MJ/scm, F must be replaced by F' to calculate TRE. F' is computed as follows:

$$F' = FH / 3.6$$

(Add) $FH / 3.6$

where F and H are as defined in subsection (c)(2).

- 4) The actual numerical values used in the equation in subsection (c)(2) must be determined as follows:

A) All reference methods and procedures to determine the flow (F),

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hourly emissions (E), and net heating (H) value must be in
~~compliance~~accordance with Appendix C.

- B) All coefficients in subsection (c)(2) must ~~comply be~~comply be in compliance with Appendix D.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.522 Savings Clause

The owner or operator of an air oxidation process with a TRE of 1.0 or less must have complied with Section 218.520(a) by the dates in Section 218.106(a) and (b). Sources subject to 218.520(b) that become subject to the control requirements of 218.520(a) after the compliance dates in 218.106(a) and (b) must comply with the timetable in Section 218.520(b).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.523 Compliance

The emissions limitations for air oxidation processes in Section 218.520(a) apply to air oxidation processes on October 25, 1994.

- a) An owner or operator of an air oxidation process with a TRE of 6.0 or less that is subject to Section 218.520(a) on October 25, 1994, must comply with Section 218.520(a) by December 31, 1999, or upon startup of the emission unit, whichever comes first. This subsection does not supersede the Savings Clause in Section 218.522.
- b) An owner or operator of an air oxidation process that becomes subject to Section 218.520(a) after October 25, 1994, must comply with Section 218.520(a) upon startup of the emission unit.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.524 Determining Applicability

- ~~a)~~a) Sources subject to Section 218.520(a) either through application of Section 218.520(c) or continued application under Section 218.522 must continue to be

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subject to the applicable limitations even if operations change to yield a TRE above the level that initially made the regulation applicable to the source's operations.

- b) Despite Section 218.520(c), any air oxidation process that uses a combustion device to control process vent streams at any time must maintain the process in compliance with Section 218.520(a) at all times.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.526 Testing and Monitoring

- a) Upon reasonable request by the Agency, the owner or operator of an air oxidation process must demonstrate compliance with this Subpart by using the methods in Appendix C. This Section does not limit USEPA's authority under the CAA to require demonstrations of compliance.
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart must notify the Agency of that intent at least 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART W: AGRICULTURE

Section 218.541 Pesticide Exception

Sections 218.301 and 218.302 do not apply to the spraying or use of insecticides, herbicides, or other pesticides.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART X: CONSTRUCTION

Section 218.561 Architectural Coatings

A person must not cause or allow the sale or use of any architectural coating containing more than 20% by volume of photo-chemically reactive material in containers with a capacity of more

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than one gallon.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.562 Paving Operations

Sections 218.301 and 218.302 do not apply to the application of paving asphalt and pavement marking paint from sunrise to sunset.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.563 Cutback Asphalt

- a) A person must not cause or allow the use or application of cutback asphalt for paving, resurfacing, reconditioning, repairing, or otherwise maintaining a roadway unless:

- 1) The use or application of the cutback asphalt commences on or after October 1 of any year and the use or application is completed by April 30 of the following year;
- 2) The cutback asphalt is a long-life stockpile material which remains in stock after April 30 of each year and may be used until depleted for patching potholes and for other similar repair work; or
- 3) The cutback asphalt is to be used solely as an asphalt prime coat.

- b) Sources subject to this Section are not required to submit or obtain an Agency approved compliance plan or project completion schedule under 35 Ill. Adm. Code 201, Subpart H.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART Y: GASOLINE DISTRIBUTION

Section 218.581 Bulk Gasoline Plants

- a) Subject to subsection (e), a person must not cause or allow the transfer of gasoline

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- 10083 from a delivery vessel into a stationary storage tank located at a bulk gasoline
10084 plant unless:
10085
- 10086 1) The delivery vessel and the stationary storage tank are each equipped with
10087 a vapor collection system that meets the requirements of subsection (d)(4);
10088
- 10089 2) Each vapor collection system is operating;
10090
- 10091 3) The delivery vessel displays the appropriate sticker under Sections
10092 218.584 (b) or (d);
10093
- 10094 4) The pressure relief valve or valves on the stationary storage tank and the
10095 delivery vessel are set to release at no less than 0.7 psi or the highest
10096 pressure allowed by state or local fire codes or the guidelines of the
10097 National Fire Prevention Association; and
10098
- 10099 5) The stationary storage tank is equipped with a submerged loading pipe.
10100
- 10101 b) Subject to subsection (f), a person must not cause or allow the transfer of gasoline
10102 from a stationary storage tank located at a bulk gasoline plant into a delivery
10103 vessel unless:
10104
- 10105 1) The requirements in subsections (a)(1) through (a)(4) are met; and
10106
- 10107 2) Equipment is available at the bulk gasoline plant to provide for the
10108 submerged filling of the delivery vessel or the delivery vessel is equipped
10109 for bottom loading.
10110
- 10111 c) Subject to subsection (e), each owner of a stationary storage tank located at a bulk
10112 gasoline plant must:
10113
- 10114 1) Equip each stationary storage tank with a vapor control system that meets
10115 the requirements of subsection (a) or (b), whichever applies;
10116
- 10117 2) Provide instructions to the operator of the bulk gasoline plant describing
10118 necessary maintenance operations and procedures that promptly notify the
10119 owner in case any vapor control system malfunctions; and
10120
- 10121 3) Repair, replace, or modify any worn out or malfunctioning component or
10122 element of design.
10123

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- d) Subject to subsection (c), each operator of a bulk gasoline plant must:
- 1) Maintain and operate each vapor control system in compliance with the owner's instructions;
 - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - 3) Maintain gauges, meters, or other specified testing devices in proper working order;
 - 4) Operate the bulk plant vapor collection system and gasoline loading equipment to prevent:
 - A) Gauge pressure from exceeding 45.7 cm (18 in.) of water and vacuum from exceeding 15.2 cm (6 in.) of water, as measured as close as possible to the vapor hose connection; and
 - B) A reading at least 100% of the lower explosive limit (LEL measured as propane) when tested in compliance with the procedure in "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", Appendix B, EPA 450/2-78-051, incorporated by reference in Section 218.112; and
 - C) Avoidable leaks of liquid during loading or unloading operations.
 - 5) Provide a pressure tap or equivalent on the bulk plant vapor collection system to allow the determination of compliance with subsection (d)(4)(A); and
 - 6) Within 15 business days after discovery of any leak by the owner, the operator, the Agency, or USEPA, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) or (B).
- e) The requirements of subsections (a), (c), and (d) do not apply to:
- 1) Any stationary storage tank with a capacity of less than 2,177 l (575 gal); or

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- 2) Any bulk gasoline plant whose daily gasoline throughput is less than 15,140 l (4,000 gal/day) on a 30-day rolling average.

- f) Subsection (b) applies only to bulk gasoline plants whose daily gasoline throughput is at least 15,140 l (4,000 gal/day) on a 30-day rolling average.

- g) Any bulk gasoline plant which is ever subject to subsections (a), (b), (c), or (d) must always be subject to these subsections.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.582 Bulk Gasoline Terminals

- a) A person must not cause or allow the transfer of gasoline into any delivery vessel from any bulk gasoline terminal unless:

- 1) The bulk gasoline terminal is equipped with a vapor control system that limits emission of VOM to 80 mg/l (0.00067 lbs/gal) of gasoline loaded;
- 2) The vapor control system is operating and all vapors displaced in the loading of gasoline to the delivery vessel are vented only to the vapor control system;
- 3) There is no liquid drainage from the loading device when it is not in use;
- 4) All loading and vapor return lines are equipped with fittings which are vapor tight; and
- 5) The delivery vessel displays the appropriate sticker under Section 218.584(b) or (d); or, if the terminal is driver-loaded, the terminal owner or operator will be deemed to be in compliance with this Section when terminal access authorization is limited to those owners or operators of delivery vessels, or both, who have provided a current certification as required by Section 218.584(c)(3).

- b) The operator of a bulk gasoline terminal must:

- 1) Operate the terminal vapor collection system and gasoline loading equipment to prevent:

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- 10206 A) Gauge pressure from exceeding 18 inches of water and vacuum
10207 from exceeding six inches of water as measured as close as
10208 possible to the vapor hose connection; and
10209
10210 B) A reading at least 100% of the lower explosive limit (LEL
10211 measured as propane) when tested in compliance with the
10212 procedure in EPA 450/2-78-051 Appendix B, incorporated by
10213 reference in Section 218.112; and
10214
10215 C) Avoidable leaks of liquid during loading or unloading operations.
10216
10217 2) Provide a pressure tap or equivalent on the terminal vapor collection
10218 system to allow the determination of compliance with Section
10219 218.582(d)(1)(A); and
10220
10221 3) Within 15 business days after discovery of the leak by the owner, operator,
10222 or the Agency, repair and retest a vapor collection system which exceeds
10223 the limits of subsection (c)(1)(A) or (B).
10224

10225 (Source: Amended at 50 Ill. Reg. _____, effective
10226 _____)
10227

Section 218.583 Gasoline Dispensing Operations – Storage Tank Filling Operations

- 10228
10229
10230 a) Subject to subsection (b), a person must not cause or allow the transfer of gasoline
10231 from any delivery vessel into any stationary storage tank at a gasoline dispensing
10232 operation unless:
10233
10234 1) The tank is equipped with a submerged loading pipe;
10235
10236 2) The vapors displaced from the storage tank during filling are processed by
10237 a vapor control system that includes at least one of the following:
10238
10239 A) A vapor collection system that meets the requirements of
10240 subsection (d)(4);
10241
10242 B) A refrigeration-condensation system or any other system approved
10243 by the Agency and approved by USEPA as a SIP revision that
10244 recovers at least 90% by weight of all vaporized organic material
10245 from the equipment being controlled; and
10246

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- 10247 C) The delivery vessel displays the appropriate sticker under Section
10248 218.584(b) or (d);
10249
- 10250 3) By March 15, 1995, all tank vent pipes are equipped with
10251 pressure/vacuum relief valves with the following design specifications:
10252
- 10253 A) The pressure/vacuum relief valve must be set to resist a pressure of
10254 at least 3.5 inches water column and to resist a vacuum of at least
10255 6.0 inches water column; or
10256
- 10257 B) The pressure/vacuum relief valve must meet the requirements of
10258 Section 218.586(c); and
10259
- 10260 4) The owner or operator of a gasoline dispensing operation demonstrates
10261 compliance with subsection (a)(3) by March 15, 1995, or within 30 days
10262 after installing each pressure/vacuum relief valve, whichever is later, and
10263 then at least annually, by measuring and recording the pressure indicated
10264 by a pressure/vacuum gauge at each tank vent pipe. The test must be
10265 performed on each tank vent pipe within two hours after product delivery
10266 into the respective storage tank. For manifold tank vent systems,
10267 observations at any point within the system must be adequate. The owner
10268 or operator must maintain any records required by this subsection for three
10269 years.
10270
- 10271 b) Subsections (a)(2) and (a)(3) do not apply to transfers of gasoline to a stationary
10272 storage tank at a gasoline dispensing operation if:
10273
- 10274 1) The tank is equipped with a floating roof or other system of equal or better
10275 emission control approved by the Agency and approved by USEPA as a
10276 SIP revision;
10277
- 10278 2) The tank has a capacity of less than 2,000 gallons and was in place and
10279 operating before January 1, 1979; or
10280
- 10281 3) The tank has a capacity of less than 575 gallons.
10282
- 10283 c) Subject to subsection (b), each owner of a gasoline dispensing operation must:
10284
- 10285 1) Install all control systems and make all process modifications required by
10286 subsection (a);
10287

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- 10288 2) Provide instructions to the operator of the gasoline dispensing operation
10289 describing necessary maintenance operations and procedures for prompt
10290 notification of the owner in case of any vapor control system malfunction;
10291 and
10292
- 10293 3) Repair, replace, or modify any worn out or malfunctioning component or
10294 element of design.
10295
- 10296 d) Subject to subsection (b), each operator of a gasoline dispensing operation must:
10297
- 10298 1) Maintain and operate each vapor control system in compliance with the
10299 owner's instructions;
10300
- 10301 2) Promptly notify the owner of any scheduled maintenance or malfunction
10302 requiring replacement or repair of a major component of a vapor control
10303 system;
10304
- 10305 3) Maintain gauges, meters, or other specified testing devices in proper
10306 working order;
10307
- 10308 4) Operate the vapor collection system and delivery vessel unloading points
10309 to prevent:
10310
- 10311 A) A reading at least 100% of the lower explosive limit (LEL
10312 measured as propane) when tested in compliance with the
10313 procedure in EPA 450/2-78-051 Appendix B, incorporated by
10314 reference in Section 218.112; and
10315
- 10316 B) Avoidable leaks of liquid during the filling of storage tanks; and
10317
- 10318 5) Within 15 business days after discovery of the leak by the owner, operator,
10319 or the Agency, repair and retest a vapor collection system which exceeds
10320 the limits of subsection (d)(4)(A).
10321

10322 (Source: Amended at 50 Ill. Reg. _____, effective
10323 _____)
10324

Section 218.584 Gasoline Delivery Vessels

- 10325
10326
- 10327 a) Any delivery vessel equipped for vapor control by use of vapor collection
10328 equipment:

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10369
- 1) Must have a vapor space connection equipped with fittings which are vapor tight;
 - 2) Must have its hatches closed at all times during loading or unloading operations, unless a top loading vapor recovery system is used;
 - 3) Must not internally exceed a gauge pressure of 18 inches of water or a vacuum of six inches of water;
 - 4) Must be designed and maintained to be vapor tight at all times during normal operations;
 - 5) Must not be refilled in Illinois at other than:
 - A) A bulk gasoline terminal that complies with Section 218.582; or
 - B) A bulk gasoline plant that complies with Section 218.581(b).
 - 6) Must be tested annually in compliance with Method 27, 40 CFR 60. Appendix A-8, incorporated by reference in Section 218.105. Each vessel must be repaired and retested within 15 business days after discovery of the leak by the owner, operator, or the Agency, when it fails to sustain:
 - A) A pressure drop of up to three inches of water in five minutes; and
 - B) A vacuum drop of up to three inches of water in five minutes.
- b) Any delivery vessel meeting the requirements of subsection (a) must have a sticker affixed to the tank adjacent to the tank manufacturer's data plate which contains the tester's name, the tank identification number, and the date of the test. The sticker must be in a form prescribed by the Agency, and, for those delivery vessels subject to 35 Ill. Adm. Code 215 as of December 31, 1987, must have been displayed by December 31, 1987.
- c) The owner or operator of a delivery vessel must:
- 1) Maintain copies of any test required under subsection (a)(6) for three years;

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- 10370 2) Provide copies of these tests to the Agency upon request; and
10371
10372 3) Provide annual test result certification to bulk gasoline plants and
10373 terminals where the delivery vessel is loaded.
10374
10375 d) Any delivery vessel which has undergone and passed a test in another state which
10376 has a USEPA-approved leak testing and certification program will satisfy the
10377 requirements of subsection (a). Delivery vessels must display a sticker, decal, or
10378 stencil approved by the state where tested or comply with the requirements of
10379 subsection (b). All such stickers, decals, or stencils must have been displayed by
10380 December 31, 1987, for delivery vessels subject to 35 Ill. Adm. Code 215 as of
10381 December 31, 1987.
10382

10383 (Source: Amended at 50 Ill. Reg. _____, effective
10384 _____)
10385

10386 **Section 218.586 Gasoline Dispensing Operations – Motor Vehicle Fueling Operations**
10387

- 10388 a) Definitions. For this Section, the following definitions apply.
10389
10390 1) "Average monthly volume" means the amount of motor vehicle fuel
10391 dispensed per month from a gasoline dispensing operation based upon a
10392 monthly average for the two-year period of November 1990 through
10393 October 1992, or, if not available, the monthly average for the most recent
10394 12 calendar months. Monthly averages are to include only those months
10395 when the operation was operating.
10396
10397 2) "Certified" means any vapor collection and control system which has been
10398 tested and approved by CARB as having a vapor recovery and removal
10399 efficiency of at least 95% (by weight) will constitute a certified vapor
10400 collection and control system. CARB testing and approval is under the
10401 CARB manual, incorporated by reference at Section 218.112.
10402
10403 3) "Completion of installation" means the successful passing of at least one
10404 of the following tests applicable to the installed vapor collection and
10405 control system: Dynamic Backpressure Test, Pressure Decay/Leak Test,
10406 and Liquid Blockage Test, incorporated by reference at Section 218.112.
10407
10408 4) "CARB" means California Air Resources Board, P.O. Box 2815,
10409 Sacramento, CA 95812.
10410

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- 10411 5) "Employee" means any person who performs work for an employer.
10412
10413 6) "Operation" means any building, structure, installation, operation, or
10414 combination of them located on contiguous properties and under common
10415 ownership that provides for the dispensing of motor vehicle fuel.
10416
10417 7) "Gasoline dispensing operation" means any operation where motor vehicle
10418 fuel is dispensed into motor vehicle fuel tanks or portable containers from
10419 a storage tank with a capacity of at least 2176 liters (575 gallons).
10420
10421 8) "Modification" means any change, removal, or addition, other than an
10422 identical replacement, of any component within the vapor collection and
10423 control system.
10424
10425 9) "Motor vehicle" means any self-propelled vehicle powered by an internal
10426 combustion engine, including automobiles and trucks. This definition
10427 specifically excludes watercraft and aircraft.
10428
10429 10) "Motor vehicle fuel" means any petroleum distillate with a Reid vapor
10430 pressure of more than 27.6 kilopascals (kPa) (four pounds per square inch)
10431 and which is used to power motor vehicles.
10432
10433 11) "Owner or operator" means any person who owns, leases, operates,
10434 manages, supervises, or controls (directly or indirectly) a gasoline
10435 dispensing operation.
10436
10437 12) Reid vapor pressure for gasoline must be measured in compliance with
10438 the method ASTM D323-20a, incorporated by reference in Section
10439 218.112.
10440
10441 13) "Vapor collection and control system" means any system certified by
10442 CARB which limits the discharge to the atmosphere of motor vehicle fuel
10443 vapors displaced during the dispensing of motor vehicle fuel into motor
10444 vehicle fuel tanks.
10445
10446 b) Applicability. Subsection (c) applies to any gasoline dispensing operation which
10447 dispenses an average monthly volume of more than 10,000 gallons of motor
10448 vehicle fuel per month. Compliance must be demonstrated by the deadline in
10449 subsection (d).
10450
10451 c) Vapor Collection and Control Systems. An owner or operator of a gasoline

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dispensing operation subject to subsection (b) must not cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and uses a vapor collection and control system which is properly installed and operated under this subsection (c):

- 1) Any vapor collection and control system installed, used, or maintained has been CARB certified.
 - 2) Any vapor collection and control system used is maintained in compliance with the manufacturer's specifications and the certification.
 - 3) No elements or components of a vapor collection and control system are modified, removed, replaced, or otherwise rendered inoperative to prevent the system from performing in compliance with its certification and design specifications.
 - 4) A vapor collection and control system has no defective, malfunctioning, or missing components.
 - 5) Operators and employees of the gasoline dispensing operation are trained and instructed in the proper operation and maintenance of a vapor collection and control system.
 - 6) Instructions are posted in a conspicuous and visible place within the motor fuel dispensing area and describe the proper method of dispensing motor vehicle fuel with the use of the vapor collection and control system.
- d) Compliance. In conjunction with Section 218.105 of this Part, gasoline dispensing operations subject to subsection (c) must comply and demonstrate compliance according to the following:
- 1) Gasoline dispensing operations that operate at any time before January 1, 2014, must comply with subsection (c) until decommissioning is allowed and commenced in compliance with subsections (i)(1) and (i)(2)(B).
 - 2) Subsection (c) does not apply to any new gasoline dispensing operation that commences operating for the first time on or after January 1, 2014.
- e) Except under subsection (d), any gasoline dispensing operation that becomes subject to subsection (c) at any time must remain subject to subsection (c) at all times.

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- 10493
- 10494 f) Upon request by the Agency, the owner or operator of a gasoline dispensing
- 10495 operation which claims to be exempt from subsection (c) must submit to the
- 10496 Agency within 30 calendar days after the date of the request records which
- 10497 demonstrate that the gasoline dispensing operation is exempt.
- 10498
- 10499 g) Recordkeeping and Reporting
- 10500
- 10501 1) Any gasoline dispensing operation subject to subsection (c) must retain at
- 10502 the operation copies of the registration information required under
- 10503 subsection (h).
- 10504
- 10505 2) Except under subsection (g)(4), records and reports required under this
- 10506 subsection (g) must be made available to the Agency upon request.
- 10507
- 10508 3) Records and reports which must be maintained by the owner or operator of
- 10509 a gasoline dispensing operation subject to subsection (c) must clearly
- 10510 demonstrate:
- 10511
- 10512 A) That a certified vapor collection and control system has been
- 10513 installed and tested to verify its performance according to its
- 10514 specifications.
- 10515
- 10516 B) That proper maintenance has been conducted in compliance with
- 10517 the manufacturer's specifications and requirements.
- 10518
- 10519 C) The time and duration of all malfunctions of the vapor collection
- 10520 and control system.
- 10521
- 10522 D) The motor vehicle fuel throughput of the operation for each
- 10523 calendar month of the previous year.
- 10524
- 10525 E) That operators and employees are trained and instructed in the
- 10526 proper operation and maintenance of the vapor collection and
- 10527 control system and informed of the potential penalties associated
- 10528 with violating any provision of this Section.
- 10529
- 10530 4) Any records relating to decommissioning must be maintained by the
- 10531 owner or operator of a gasoline dispensing operation for five years after
- 10532 completion of decommissioning in compliance with subsection (i). For
- 10533 this subsection (g)(4), "records" include any documents, papers, reports,

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test results, logs, invoices, forms, certifications, and receipts that relate to decommissioning. Records relating to decommissioning must be made available to the Agency or its designee within 30 minutes after the Agency's or its designee's request.

- h) Any gasoline dispensing operation subject to subsection (c) must comply with the following registration requirements:
- 1) Upon installing a vapor collection and control system, the owner or operator of the gasoline dispensing operation must submit to the Agency a registration which provides at minimum the operation name and address, signature of the owner or operator, the CARB Executive Order Number for the vapor collection and control system to be used, the number of nozzles (excluding diesel or kerosene) used for motor vehicle refueling, the monthly average volume of motor vehicle fuel dispensed, the location (including contact person's name, address, and telephone number) of records and reports required by this Section, and the date of completion of installation of the vapor collection and control system.
 - 2) The registration must be submitted to the Agency within 30 days after completing the installation.
 - 3) A copy of the registration information must be maintained at the gasoline dispensing operation.
 - 4) Upon modifying an existing vapor collection and control system, the owner or operator of the gasoline dispensing operation must submit to the Agency a registration that details the changes to the information provided in the previous registration of the vapor collection and control system and which includes the signature of the owner or operator. The registration must be submitted to the Agency within 30 days after completing the modification.
- i) Decommissioning. The owner or operator of a gasoline dispensing operation subject at any time to subsection (c) must decommission vapor collection and control systems in compliance with this subsection (i).
- 1) Compliance
 - A) Beginning January 1, 2014, an owner or operator of a gasoline dispensing operation may commence decommissioning of vapor

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collection and control systems. The decommissioning of vapor collection and control systems must be conducted in compliance with subsection (i)(2).

- B) By December 31, 2016, an owner or operator of a gasoline dispensing operation must complete the decommissioning of all vapor collection and control systems in compliance with subsection (i)(2).

- 2) Decommissioning Procedures and Standards. The decommissioning of vapor collection and control systems must be conducted as follows:

- A) The owner or operator of a gasoline dispensing operation must complete and submit a notice of intent form provided by the Agency to notify the Agency of its intent to decommission. The completed notice of intent form must be submitted to the Agency at least 10 days before commencing decommissioning in compliance with subsection (i)(2)(B);
- B) The owner or operator of a gasoline dispensing operation must decommission vapor collection and control systems in compliance with Section 14.6, except Section 14.6.14, of the Petroleum Equipment Institute's "Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP 300-09 (PEI), incorporated by reference at Section 218.112. In addition to Section 14.6 of the PEI, the following requirements apply to decommissioning:
- i) All decommissioning procedures except testing must be performed only by a contractor who is both registered with the Illinois Department of Agriculture, Bureau of Weights and Measures, in the 3-A Gasoline Pump Meters Code under Section 8.1 of the Weights and Measures Act [225 ILCS 470/8.1] and licensed by the Office of the State Fire Marshal (OSFM) in the installation/retrofitting licensure module under the Petroleum Equipment Contractors Licensing Act [225 ILCS 729] and implementing regulations at 41 Ill. Adm. Code 172. The contractor must also have the appropriate dispenser-manufacturer certification and training, if any. If product piping must be broken or an OSFM permit is otherwise required for any

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component of the work, the contractor must ensure that the OSFM-permitted work is performed by the appropriate OSFM-licensed contractor and personnel;

- ii) Decommissioning procedures related to testing must be performed only by a contractor who is licensed by OSFM in the tank tightness testing licensure module under the Petroleum Equipment Contractors Licensing Act and implementing regulations at 41 Ill. Adm. Code 172; and
- iii) The pressure decay test required by the PEI must be passed in compliance with Appendix A of the PEI. The tie-tank test required by the PEI must be conducted and passed in compliance with CARB TP201.3C to ensure that all tanks are properly vented; and

- C) The owner or operator of a gasoline dispensing operation and the contractors that performed the decommissioning must complete and sign a decommissioning checklist and certification, provided by the Agency, documenting the decommissioning procedures performed. Within 30 days after completion of the decommissioning procedures under subsection (i)(2)(B), the owner or operator must provide the completed checklist and certification and the test results to the Agency.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Z: DRY CLEANERS

Section 218.607 Standards for Petroleum Solvent Dry Cleaners

- a) The owner or operator of a petroleum solvent dry cleaning dryer must either:
 - 1) Limit VOM emissions to the atmosphere to an average of 3.5 kg of VOM per 100 kg dry weight of articles dry cleaned; or
 - 2) Install and operate a solvent recovery dryer so that the dryer remains closed and the recovery phase continues until a final solvent flow rate of 50 milliliters per minute is attained.

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- b) The owner or operator of a petroleum solvent filtration system must either:
- 1) Reduce the VOM content in all filtration wastes to 1.0 kg or less per 100 kg dry weight of articles dry cleaned before disposal and exposure to the atmosphere; or
 - 2) Install and operate a cartridge filtration system and drain the filter cartridges in their sealed housings for at least eight hours before their removal.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.608 Operating Practices for Petroleum Solvent Dry Cleaners

To minimize fugitive solvent emissions, the owner or operator of a petroleum solvent dry cleaning source must employ good housekeeping practices, including the following:

- a) General Housekeeping Requirements
- 1) Equipment containing solvent (washers, dryers, extractors, and filters) must remain closed at all times except during load transfer and maintenance. Lint filter and button trap covers must remain closed except when solvent-laden material is being removed.
 - 2) Cans, buckets, barrels, and other containers of solvent or solvent-laden material must be covered except when in use.
 - 3) Solvent-laden material must be exposed to the atmosphere for only the minimum time necessary for load transfer.
- b) Installing and operating equipment
- 1) All cartridge filters must be enclosed and operated in compliance with the procedures and specifications recommended by the manufacturer for the cartridge filter. After installation, the cartridges must be inspected, monitored, and maintained in compliance with the manufacturer's recommendations; and
 - 2) Vents on containers for new solvent and solvent-containing waste must be constructed and maintained to minimize solvent vapor emissions. Criteria

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for minimizing solvent vapor emissions include eliminating solvent buckets and barrels standing open to the atmosphere and repairing gaskets and seals that expose solvent-rich environments to the atmosphere, to be determined through visual inspection.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.609 Program for Inspection and Repair of Leaks

- a) The owner or operator of a petroleum solvent dry cleaning source must conduct the following visual inspections on a weekly basis:
- 1) Washers, dryers, solvent filters, settling tanks, vacuum stills, and containers and conveyors of petroleum solvent must be inspected for visible leaks of solvent liquid.
 - 2) Pipes, hoses, and fittings must be inspected for active dripping or dampness.
 - 3) Pumps and filters must be inspected for leaks around seals and access covers.
 - 4) Gaskets and seals must be inspected for wear and defects.
- b) Leaks of petroleum solvent liquid and vapors must be repaired within three working days after detection, unless necessary replacement parts are not on site.
- 1) If necessary, repair parts must be ordered within three working days after detecting the leak.
 - 2) The leak must be repaired within three days after delivery of necessary parts.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.610 Testing and Monitoring

- a) Compliance with Sections 218.607(b)(2), 218.608, and 218.609 must be determined by visual inspection; and

10739

10740 b) Compliance with Sections 218.607(a)(2) and (b)(1) must be determined by

10741 methods in EPA-450/3-82-009 (1982), incorporated by reference in Section

10742 218.112.

10743

10744 c) If a control device is used to comply with Section 218.607(a)(1), then compliance

10745 must be determined using 40 CFR 60.Appendix A-7, Method 25, incorporated by

10746 reference in Section 218.112.

10747

10748 (Source: Amended at 50 Ill. Reg. _____, effective

10749 _____)

10752
10753 Sections 218.607 through 218.610 apply to petroleum solvent dry cleaning sources that:

- (Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.620 Applicability

- a) This Subpart applies to all paint and ink manufacturing sources which:
 - 1) Include process emission units not subject to Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; and which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) per calendar year of VOM if no air pollution control equipment were used; and

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- 10780 B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions
10781 per calendar year without air pollution control equipment through
10782 production or capacity limitations in a federally enforceable permit
10783 or a SIP revision; or
10784
- 10785 2) Produce more than 7,570,820 l (2,000,000 gal) per calendar year of paint
10786 or ink formulations which contain less than 10% (by weight) water and ink
10787 formulations not containing as the primary solvents water, Magie oil, or
10788 glycol.
10789
- 10790 b) This Subpart also applies to all paint and ink manufacturing sources which:
10791
- 10792 1) Have the potential to emit at least an aggregate 22.7 Mg (25 tons) of VOM
10793 per year from process emission units that:
10794
- 10795 A) Are not regulated by Subparts B, E, F, H, Q, R, S, T (excluding
10796 Section 218.486), V, X, Y, Z, or BB; or
10797
- 10798 B) Are not included in any of the following categories: synthetic
10799 organic chemical manufacturing industry (SOCMI) distillation,
10800 SOCMI reactors, wood furniture, plastic parts coating (business
10801 machines), plastic parts coating (other), offset lithography,
10802 industrial wastewater, autobody refinishing, SOCMI batch
10803 processing, VOL storage tanks, and clean-up solvents operations;
10804 or
10805
- 10806 2) Produce more than 1,892,705 l (500,000 gal) per calendar year of paint or
10807 ink formulations which contain less than 10% (by weight) water and ink
10808 formulations not containing as the primary solvents water, Magie oil, or
10809 glycol.
10810
- 10811 c) For this Subpart, VOM emissions in the absence of air pollution control
10812 equipment are the emissions of VOM which would result if no air pollution
10813 control equipment were used.
10814

10815 (Source: Amended at 50 Ill. Reg. _____, effective
10816 _____)
10817

Section 218.621 Exemption for Waterbase Material and Heatset-Offset Ink

10818
10819
10820 Sections 218.624, 218.625, and 218.628(a) do not apply to equipment while it is being used to

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produce either:

- a) Paint or ink formulations which contain at least 10% (by weight) water; or
- b) Inks containing Magie oil and glycol as the primary solvent.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.624 Open-Top Mills, Tanks, Vats, or Vessels

A person must not operate an open-top mill, tank, vat, or vessel with a volume of more than 45 l (12 gal) to produce paint or ink unless:

- a) The mill, tank, vat, or vessel is equipped with a cover which completely covers the mill, tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft. The cover must extend at least 1.27 cm (0.5 in) beyond the outer rim of the opening or be attached to the rim.
- b) The cover remains closed except when production, sampling, maintenance, or inspection procedures require access.
- c) The cover is maintained in good condition so that, when in place, it maintains contact with the rim of the opening for at least 90% of the circumference of the rim.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.625 Grinding Mills

- a) A person must not operate a grinding mill to produce paint or ink which is not maintained in compliance with the manufacturer's specifications.
- b) A person must not operate a grinding mill fabricated or modified after August 16, 1991, which is not equipped with fully enclosed screens.
- c) The manufacturer's specifications must be kept on file at the plant by the owner or operator of the grinding mill and be made available to any person upon verbal or written request during business hours.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.626 Storage Tanks

- a) The owner or operator must equip tanks storing VOL with a vapor pressure greater than 10 kPa (1.5 psi) at 20 °C (68 °F) with pressure/vacuum conservation vents set as a minimum at ± 0.2 kPa (0.029 psi). These controls must be operated at all times. An alternative air pollution control system may be used if it yields a greater emission reduction than these controls. Any alternative control system can be allowed only if approved by the Agency and approved by USEPA as a SIP revision.
- b) Stationary VOL storage containers with a capacity greater than 946 l (250 gal) must be equipped with a submerged-fill pipe or bottom fill. These controls must be operated at all times. An alternative control system can be allowed only if approved by the Agency and approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.628 Leaks

The owner or operator of a paint or ink manufacturing source must conduct the following equipment monitoring program to detect leaks:

- a) Each pump must be checked by visual inspection each calendar week for leaks indicated by liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, the pump must be repaired as soon as practicable, but within 15 calendar days after the leak is detected.
- b) Any pump, valve, pressure relief valve, sampling connection, open-ended valve and flange, or connector containing a fluid which is at least 10% VOM by weight and which appears to be leaking on the basis of sight, smell, or sound must be repaired as soon as practicable, but within 15 calendar days after the leak is detected.
- c) A readily visible weather-proof tag, in bright colors such as red or yellow and bearing an identification number and the date on which the leak was detected, must be attached to leaking equipment. The tag may be removed when the

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equipment has been repaired, including adjustment or other alteration, to allow operation without leaking.

- d) When a leak is detected, the owner or operator must record the date of detection and repair, and the record must be retained at the source for at least two years from the date of each detection or each repair attempt. The record must be made available to any person upon verbal or written request during business hours.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.630 Cleanup

- a) A person must not clean paint or ink manufacturing equipment with organic solvent unless the equipment being cleaned is completely covered or enclosed except for an opening no larger than necessary to allow safe clearance for properly operating the cleaning equipment, considering the method and materials being used.
- b) A person must store organic wash solvent only in closed containers, unless closed containers are demonstrated to be a safety hazard, and must dispose of organic wash solvent so that only up to 20% by weight is allowed to evaporate into the atmosphere.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.636 Compliance Schedule

Every owner or operator of a source subject to the control requirements of this Subpart must comply with the requirements of [item 10](#) and after an applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.637 Recordkeeping and Reporting

- a) Upon request by the Agency, the owner or operator of an emission source which claims to be exempt from this Subpart must submit records to the Agency within 30 calendar days after the date of the request which document that the emission source is exempt from this Subpart. These records include the percent water (by

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weight) in the paint or ink being produced and the quantity of Magie oil, glycol, and other solvents in the ink being produced.

- b) Every owner or operator of a source which is subject to this Subpart must maintain all records necessary to demonstrate compliance with it at the source for three years.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART BB: POLYSTYRENE PLANTS

Section 218.640 Applicability

This Subpart applies to polystyrene plants which:

- a) Use continuous processes to manufacture polystyrene - polybutadiene co-polymer; and
- b) Fall within Standard Industrial Classification Group No. 282, Industry No. 2821, except that the manufacture of polystyrene resins need not be the primary manufacturing process at the plant.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.642 Emissions Limitation at Polystyrene Plants

A person must not cause or allow the emissions of VOM from the material recovery section to exceed 0.12 kg of VOM per 1,000 kg of polystyrene resin produced.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.644 Emissions Testing

- a) Upon a reasonable request by the Agency, the owner or operator of a polystyrene plant subject to this Subpart must at its own expense demonstrate compliance by 40 CFR 60. Appendix A-7, Method 25 - Determination of Total Gaseous Non-Methane Organic Emissions as Carbon, incorporated by reference in Section 218.112.

Schwartz, J p [JS57] April 29, 2026
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Should be only one parenthesis.

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- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart must notify the Agency of that intent at least 30 days before the planned initiation of the test so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section 218.660 Applicability

- a) Potential to emit
- 1) A source is subject to this Subpart if it is not subject to Subparts PP, QQ, RR, and TT and:
- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, volatile organic liquid storage tanks, and clean-up solvent operations.
- 2) If a source is subject to this Subpart under subsection (a)(1), this Subpart applies to a source's polyester resin products manufacturing process emission units and associated handling of materials, cleanup activity, and formulation activity, if any, which are not regulated by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, or DD.
- b) If a source ceases to fulfill the criteria of subsection (a), this Subpart continues to apply to a polyester resin products manufacturing process emissions unit which was subject to the control requirements of Section 218.666.
- c) For this Subpart, an emission unit must be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the

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emission unit is covered by an exemption in the Subpart, or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.666 Control Requirements

~~a)~~a) Every owner or operator of a polyester resin products manufacturing process subject to this Subpart must comply with the operating requirements in this ~~section~~Section:

~~1)~~1) Any of the following:

- A) Use polyester resin material with a monomer content as follows:
 - i) For polyester resin materials used for products requiring corrosion resistant or fire-retardant materials, a monomer content of up to 48% by weight as applied;
 - ii) For polyester resin materials used for products requiring a tensile strength of 10,000 psi or more, including tooling resins, a monomer content of up to 48% by weight as applied;
 - iii) For clear gel coat, a monomer content of up to 50% by weight as applied;
 - iv) For other pigmented gel coats, a monomer content of up to 45% by weight as applied; or
 - v) For all other polyester resin materials, a monomer content of up to 35% by weight as applied.
- B) Use a closed-mold system or pultrusion system which will result in less than 4% weight loss of polyester resin materials;
- C) Use vapor suppressed polyester resin approved by the Agency in the source's permit so that weight loss from VOM emissions does not exceed 60 grams per square meter of exposed surface area during molding; or

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- 11067
- 11068 D) Use any materials or processes that are demonstrated to the
- 11069 satisfaction of the Agency to achieve VOM emission levels
- 11070 equivalent to any of the above. This alternative must be approved
- 11071 by the Agency and USEPA in a federally enforceable permit or as
- 11072 a SIP revision.
- 11073
- 11074 2) For spraying operations, in addition to the requirements in subsection
- 11075 (a)(1), use only high-volume low pressure (HVLP), airless, air-assisted
- 11076 airless, or electrostatic spray equipment, except for touch-up and repair
- 11077 using a hand-held, air-atomized spray gun which has a container for
- 11078 polyester resin material as part of the gun.
- 11079
- 11080 b) Any owner or operator of a polyester resin products manufacturing process
- 11081 subject to this Subpart must use closed containers for all polyester resin materials,
- 11082 cleaning materials which contain VOM (including waste cleaning materials), and
- 11083 other materials that contain VOM (including waste resin materials) to effectively
- 11084 control VOM emissions to the atmosphere and in compliance with the practices in
- 11085 the certification under Section 218.670(b)(2)(A).
- 11086
- 11087 c) Any owner or operator of a polyester resin products manufacturing process
- 11088 subject to this Subpart which formulates polyester resin material at the source
- 11089 must comply with the following operating requirements:
- 11090
- 11091 1) A cover must be in place on any tank, vat, or vessel with a capacity greater
- 11092 than 7.5 l (2 gal), including a container in which polyester resin materials
- 11093 are delivered to the source, while polyester resin materials are being
- 11094 formulated. The cover must:
- 11095
- 11096 A) Completely cover the tank, vat, or vessel opening except for an
- 11097 opening no larger than necessary to allow for safe clearance for a
- 11098 mixer shaft;
- 11099
- 11100 B) Extend at least 1.27 cm (0.5 inch) beyond the outer rim of the
- 11101 opening or be attached to the rim;
- 11102
- 11103 C) Remain closed except when adding or removing material or when
- 11104 sampling or inspection procedures require access; and
- 11105
- 11106 D) Be maintained in good condition so that, when in place, the cover
- 11107 maintains contact with the rim of the opening for at least 90% of

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the circumference of the rim.

- 2) Carry out emissions must be minimized when a mixer used for formulation of polyester resin material is being removed from a tank, vat, or vessel containing polyester resin material by allowing the material retained on the mixer blades to drain back into the tank, vat, or vessel before the mixer is completely removed from the tank, vat, or vessel.

- d) Any owner or operator of polyester resin products manufacturing processes subject to this Subpart which as a group use more than 4 gallons per day of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) must use a solvent recovery system for the materials. Solvent recovery may be done at the source or by using an off-site commercial solvent recovery service. The waste residue from a solvent recovery system located at the source must not contain more than 20% VOM by weight.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.667 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart must comply with the requirements on and after an applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.668 Testing

- a) Testing Methods

- 1) The VOM content of fresh cleaning materials must be determined from supplier data or by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112.
- 2) The VOM content of waste residue from a solvent recovery system must be determined by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112.
- 3) The monomer content of polyester resin materials must be determined:

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- 11149 A) From supplier data and operating data;
11150
11151 B) By sampling and analysis by the methods in SCAQMD Method
11152 312-91, incorporated by reference in Section 218.112; or
11153
11154 C) By site-specific sampling and analysis methods approved by the
11155 Agency and USEPA in a federally enforceable permit.
11156
11157 4) The weight loss from polyester resin material in a closed-mold system or
11158 pultrusion system during molding must be determined:
11159
11160 A) From supplier data and operating data;
11161
11162 B) By testing of VOM emissions by the methods in Section 218.105;
11163 or
11164
11165 C) By material balance as follows:
11166
11167 Separately weigh the polyester resin ~~materials~~ material and the
11168 reinforcement materials before they are introduced into the mold.
11169 Weigh the molded product after it has cooled so that it can be
11170 manually handled, but no sooner than one hour after removal of the
11171 product from the mold. The percent weight loss must be
11172 determined according to the following equation:
11173

$$\text{PWL} = \frac{1 - (C - A) \times 100}{A}$$

Where,

<u>PWL</u>	=	<u>Percent Weight Loss;</u>
<u>A</u>	=	<u>Weight of polyester resin materials;</u>
<u>B</u>	=	<u>Weight of reinforcement material;</u>
<u>C</u>	=	<u>Weight of cooled molded product after at one hour elapsed time.</u>

~~PWL = Percent Weight Loss;~~
~~A = Weight of polyester resin materials;~~
~~B = Weight of reinforcement material;~~
~~C = Weight of cooled molded product after at least one
hour elapsed time.~~

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- 11184 D) By site-specific sampling and analysis methods approved by the
11185 Agency and USEPA in a federally enforceable permit.
11186
- 11187 5) The weight loss from a vapor suppressed polyester resin material square
11188 meter of exposed surface area must be determined:
11189
- 11190 A) From supplier data and operating data;
11191
- 11192 B) By sampling and analysis by the methods in SCAQMD Method
11193 309-91, incorporated by reference in Section 218.112; or
11194
- 11195 C) By site-specific sampling and analysis methods approved by the
11196 Agency and USEPA in a federally enforceable permit.
11197
- 11198 6) If there is a difference between data obtained by sampling and analysis and
11199 other data, the data from sampling and analysis must govern.
11200
- 11201 b) When in the opinion of the Agency it is necessary to conduct sampling and
11202 analysis to demonstrate compliance with Section 218.668, the owner or operator
11203 of a polyester resin products manufacturing process subject to this Subpart must
11204 at its own expense conduct the sampling and analysis in compliance with the
11205 applicable test methods and procedures in subsection (a). The Agency's decision
11206 to invoke this subsection may be based on factors including a change in operation
11207 of the polyester resin products manufacturing process or a reasonable belief that a
11208 previous test resulted in erroneous data.
11209
- 11210 c) Nothing in this Section limits the authority of USEPA under the CAA, as
11211 amended, to require sampling and analysis.
11212

11213 (Source: Amended at 50 Ill. Reg. _____, effective
11214 _____)
11215

Section 218.670 Recordkeeping and Reporting for Exempt Emission Units

11216 Upon request by the Agency, the owner or operator of a polyester resin manufacturing process
11217 which is exempt from Subpart CC must submit to the Agency records that document that the
11218 polyester resin product manufacturing process is exempt from those requirements. These records
11219 must be submitted within 30 calendar days after the date of the request.
11220
11221
11222

11223 (Source: Amended at 50 Ill. Reg. _____, effective
11224 _____)

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Section 218.672 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of a polyester resin products manufacturing process which is subject to this Subpart must comply with the following:
- 1) By an applicable date under Section 218.106, or upon initial start-up of a process subject to this Subpart, the owner or operator of the subject process must certify to the Agency that the process will be in compliance with Section 218.666(a) on and after the applicable date under Section 218.106, or on and after the initial start-up date as demonstrated by testing in compliance with Section 218.668. The certification must include:
- A) The name and identification number of each polyester resin products manufacturing process at the source;
- B) The name and identification number of each polyester resin material used in these processes, the means by which it may be applied, and the classification of the polyester resin material under Section 218.666(a)(1)(A);
- C) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight), and other relevant data to show compliance with the operating requirement, including:
- i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire-retardant materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for the classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively,;
- ii) For each polyester resin material which is applied in a closed-mold or pultrusion system to comply with Section 218.666(a)(1)(B), the weight loss from the polyester resin material (percent by weight) during molding;
- iii) For each polyester resin material which is vapor suppressed to comply with Section 218.666(a)(1)(C), the type and

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- 11266 content (percent by weight) of catalyst in the materials, the
11267 maximum process temperature for resin application, the
11268 maximum gel time, and the weight loss (grams per square
11269 meter exposed surface) during molding; and
11270
- 11271 iv) For each polyester resin material which is approved by the
11272 Agency and USEPA in a federally enforceable permit or as
11273 a SIP revision to comply with Section 218.666(a)(1)(D),
11274 information showing the VOM emissions level which is
11275 achieved and the VOM emissions which would result from
11276 compliance with Section 218.666(a)(1)(A), (B), or (C).
11277
- 11278 D) A description of the testing which was performed in compliance
11279 with Section 218.668 to determine the monomer content of
11280 polyester resin materials and the information in subsections
11281 (a)(1)(C)(ii), (iii), and (iv) and (a)(1)(D), including data,
11282 calculations, and descriptions and results of the sampling and
11283 analysis that the owner or operator has relied upon to show
11284 compliance with Sections 218.666(a)(1) and (2);
11285
- 11286 E) For spraying operations, the equipment for spraying polyester resin
11287 materials and the equipment for touch up and repair;
11288
- 11289 F) The method by which the owner or operator will create and
11290 maintain records required in subsections (b)(2) and (b)(3); and
11291
- 11292 G) An example of the format in which the records required in
11293 subsections (b)(2) and (b)(3) will be kept.
11294
- 11295 2) On and after an applicable date under Section 218.106 or on and after
11296 initial start-up date, the owner or operator of a subject process must collect
11297 and record the following information to maintain a complete record of all
11298 polyester resin materials which are used by such polyester resin products
11299 manufacturing process. This information must be maintained at the source
11300 for three years:
11301
- 11302 A) The name and identification number of each polyester resin
11303 material used in the process;
11304
- 11305 B) The particular operating requirement with which each polyester
11306 resin material will comply, the actual monomer content of the

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material (percent by weight), and other relevant data to show compliance with the operating requirement, including:

- i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire-retardant materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for the classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively;
- ii) For each polyester resin material which is applied in a closed-mold or pultrusion system to comply with Section 218.666(a)(1)(B), the weight loss from the polyester resin material (percent by weight) during molding;
- iii) For each polyester resin material which is vapor suppressed to comply with Section 218.666(a)(1)(C), the type and content (percent by weight) of catalyst in the material, the maximum process temperature for resin application, the maximum gel time, and the weight loss (grams per square meter exposed surface) during molding; and
- iv) For each polyester resin material which is approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision to comply with Section 218.666(a)(1)(D), information showing the VOM emission level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B), or (C);

C) A description of the testing which was performed in compliance with Section 218.668 to determine the monomer content of polyester resin materials and the information in subsections (a)(1)(C)(ii), (iii), and (iv) and (a)(1)(D), including data, calculations, and descriptions and results of the sampling and analysis that the owner or operator has relied upon to show compliance with Section 218.666(a)(1);

D) The processes and applications for which each polyester resin material may be used in compliance with applicable operating requirements, including:

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- i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire-retardant material or a material used for products requiring tensile strength of 10,000 psi or more which is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i) or (ii), respectively, the required products or circumstances for the materials' use;
 - ii) For each polyester resin material which is applied in a closed-mold or pultrusion system to comply with Section 218.666(a)(1)(B), the required process temperature and minimum mold cycle time or maximum pultrusion speed;
 - iii) For each polyester resin material which is vapor suppressed to comply with Section 218.666(a)(1)(C), the required thickness of the manufactured product, the type and amount of catalyst in the resin, and the maximum process temperature and maximum gel time; and
 - iv) For each polyester resin material which is approved by the Agency and approved by USEPA as a SIP revision to comply with Section 218.666(a)(1)(D), the required process operating conditions or product specifications; and
 - E) For each polyester resin material which is applied in a spraying operation, the type of spray equipment with which the material will be applied to comply with Section 218.666(a)(2).
- 3) On and after an applicable date under Section 218.106, or on and after the initial start-up date, the owner or operator of a subject process must collect and record all of the following information each day for each process and maintain the information at the source for three years:
- A) The name, identification number, and amount of each polyester resin material applied on each process; and
 - B) The specific data under Section 218.672(a)(2)(D) to confirm that the polyester resin material was applied in a manner to comply with the applicable operating requirement.

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- 11389 4) On and after an ~~applicable date~~applicable date under Section 218.106, the
11390 owner or operator of a subject process must notify the Agency:
11391
- 11392 A) Of any violation of the operating requirements of this Subpart by
11393 sending a copy of the record to the Agency within 30 days after the
11394 violation; and
11395
- 11396 B) At least 30 calendar days before changing the method of
11397 compliance with this Subpart from Section 218.666(a)(1)(A), (B),
11398 (C), or (D) to another operating requirement, of compliance with
11399 all requirements of subsection (a)(1). Upon changing the method
11400 of compliance with this Subpart from one operating requirement to
11401 another, the owner or operator must comply with all applicable
11402 requirements of subsection (a).
11403
- 11404 b) Any owner or operator of a polyester resin product manufacturing process subject
11405 to Subpart CC must comply with the following:
11406
- 11407 1) On an applicable date under Section 218.106 or upon initial start-up of a
11408 new source, the owner or operator of the source must certify to the Agency
11409 that the source will be in compliance with Sections 218.666(b) and (d) on
11410 and after an applicable date under Section 218.106 or on or after the initial
11411 start-up date. The certification must include:
11412
- 11413 A) A description of the handling practices for polyester resin material,
11414 cleaning materials which contain VOM, and waste materials which
11415 contain VOM, including the use of closed containers and a
11416 statement that these practices effectively control VOM emissions
11417 to the atmosphere; and
11418
- 11419 B) The usage on a daily basis of each cleanup material which contains
11420 VOM, the VOM content per liter of each material, and whether a
11421 reclamation system is required by Section 218.666(d) for the
11422 material or will be used; a description of the solvent recovery
11423 practices if recovery is required or will be used; and a statement
11424 that, where a solvent recovery system is required and will be at the
11425 source, the waste residue contains 20% or less VOM by weight.
11426
- 11427 2) On and after an applicable date under Section 218.106 or on and after the
11428 initial start-up date, the owner or operator of the process must collect and
11429 record all the following information and maintain the information at the

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source for three years:

- 11430
11431
11432 A) The date, time, and duration of scheduled inspections performed to
11433 confirm the proper use of closed containers to control VOM
11434 emissions, and any instances of improper use of closed containers,
11435 with descriptions of actual practice and corrective action taken, if
11436 any;
11437
11438 B) Information on a daily basis confirming the proper use of a
11439 recovery system if one is required or is used, including operation
11440 of a recovery system at the source to produce a waste residue that
11441 is 20% or less VOM by weight and information identifying any
11442 observation of noncompliance; and
11443
11444 C) Information on a daily basis on the use of cleaning materials which
11445 contain more than 200 grams of VOM per liter (1.7 pound per
11446 gallon) if a recovery system is not required or is not used. This
11447 information must include the name, identification number, amount
11448 used, and VOM content of each cleaning material.
11449
11450 3) On and after an applicable date under Section 218.106, the owner or
11451 operator of a subject process must notify the Agency:
11452
11453 A) Of a violation of this Subpart with respect to handling practices
11454 and solvent recovery for cleaning materials by sending a copy of
11455 all such records to the Agency within 30 days after the calendar
11456 quarter in which the violation occurred; or
11457
11458 B) Within 30 calendar days after changing the handling practices for
11459 polyester resin materials, cleaning materials, and waste materials
11460 or changing source practice with respect to a solvent recovery
11461 system for cleaning materials, describing the change.
11462
11463 c) Any owner or operator of a polyester resin product manufacturing process subject
11464 to this Subpart that formulates polyester resin material at the source must comply
11465 with the following:
11466
11467 1) On an applicable date under Section 218.106 or upon initial start-up of a
11468 new emission unit, the owner or operator of the source must certify to the
11469 Agency that the emission unit will be in compliance with Section
11470 218.666(c) on and after an applicable date under Section 218.106 or on

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and after the initial start-up date. The certification must include:

- A) A description of the equipment used for formulation of polyester resin materials, including the types of tanks, vats, and vessels and their size and the types of mixers and the covers associated with this equipment; and
- B) A description of the practices used to minimize VOM emissions to the atmosphere from formulation activity, including the use and maintenance of covers on tanks, vats, and vessels and drainage of mixers.
- 2) On and after an applicable date under Section 218.106 or on and after the initial start-up date, the owner or operator of the process must collect and record all the following information and maintain the information at the source for three years:
- A) The date, time, and duration of scheduled inspections to confirm the proper use and maintenance of covers on vats, vessels, and tanks and proper drainage of mixers and any instance of improper use, with description of actual practice and corrective action taken, if any; and
- B) A maintenance log for covers on vats, vessels, and tanks, detailing all routine and non-routine maintenance performed and initial use of new covers, including dates of such activities.
- 3) On and after an applicable date under Section 218.106, the owner or operator of a subject process must notify the Agency:
- A) Of a violation of this Subpart with respect to formulating polyester resin material by sending a copy of all such records to the Agency within 30 days after the calendar quarter in which the violation occurred; or
- B) Within 30 calendar days after changing the handling practices for formulating polyester resin materials, describing the change.

(Source: Amended at 50 Ill. Reg. _____, effective
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POLLUTION CONTROL BOARD
NOTICE OF PROPOSED AMENDMENTS
SUBPART DD: AEROSOL CAN FILLING

Section 218.680 Applicability

- a) Potential to emit
- 1) A source is subject to this Subpart if it is not subject to Subparts PP, QQ, RR, and TT and has the potential to emit at least 22.7 Mg (25 tons) of VOM per year, in aggregate, from emission units that are:
- A) Not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvent operations.
- 2) If a source is subject to this Subpart under subsection (a)(1), the requirements of this Subpart apply to a source's aerosol can filling lines and propellant booster pumps which are not regulated by or addressed by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, or CC.
- b) If a source ceases to meet the criteria of subsection (a), this Subpart continues to apply to an aerosol can filling line and propellant booster pump which was subject to the control requirements of Section 218.686.
- c) For this Subpart, an emission unit must be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.686 Control Requirements

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- 11553 a) Every owner or operator of an aerosol can filling line that is filling cans with a
11554 propellant which contains propane, butane, or other VOM subject to this Subpart
11555 must comply with the following requirements:
11556
- 11557 1) Emission capture and control techniques which achieve an overall
11558 reduction in uncontrolled VOM emission of at least 81% from the
11559 propellant filling area, also known as the gas house, on each line; or
11560
- 11561 2) As an alternative to compliance with subsection (a)(1), the owner or
11562 operator of an aerosol can filling line must comply with the following
11563 requirements:
11564
- 11565 A) Fill all cans, other than trial runs of cans to verify product quality,
11566 using through-the-valve fill or enhanced under-the-cup fill to
11567 minimize loss of VOM propellant; use a reclamation system to
11568 recover surplus VOM propellant; or use another system approved
11569 in a federally enforceable permit which achieves at least 75%
11570 reduction of the emissions of under-the-cup fill;
11571
- 11572 B) Fill on a monthly basis at least 90% of cans filled on the aerosol
11573 can filling lines that are capable of being filled by the
11574 through-the-valve method with through-the-valve fill. All cans
11575 must be considered capable of being filled by the
11576 through-the-valve method unless, as demonstrated by the records
11577 required by Section 218.692(b)(2), the valve assembly is not
11578 adaptable to the through-the-valve fill; through-the-valve fill
11579 cannot be accomplished with at least 85% of the under-the-cup
11580 operating rate in cans per minute of filling; or performance, i.e. the
11581 discharge of the can's contents to accomplish its intended function,
11582 is negatively affected by through-the-valve fill when considering
11583 factors such as propellant solubility in the can's contents and the
11584 amount of turbulence which the contents may experience during
11585 propellant filling; and
11586
- 11587 C) Verify proper filling of cans with a VOM monitoring system in the
11588 gas house. This system may monitor VOM concentration as a
11589 percentage of the lower explosive limit.
11590
- 11591 b) Every owner or operator of a propellant booster pump associated with an aerosol
11592 can filling line subject to this Subpart must comply with one of the following
11593 requirements:

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- 1) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emission of at least 81% from each pump. If the pumps are located in the gas house of a filling line, compliance with this reduction may be achieved by the combination of the pumps located in the gas house and the propellant filling area; or
 - 2) Work practices to prevent leaks from a pump, meaning a loss of VOM from the pump above background levels. Work practices must include changing seals every four weeks and plungers every 16 weeks unless a pump monitoring procedure approved in a federally enforceable permit establishes otherwise.

11607 (Source: Amended at 50 Ill. Reg. _____, effective
11608 _____)
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11610 **Section 218.688 Testing**
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- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance or verify effectiveness with Section 218.686, the owner or operator of a VOM emission unit subject to this Subpart must, at its own expense, conduct the tests in compliance with the applicable test methods and procedures in Section 218.105.
 - b) Nothing in this Section limits the authority of the USEPA under the CAA, as amended, to require testing.

11621 (Source: Amended at 50 Ill. Reg. _____, effective
11622 _____)
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11624 **Section 218.690 Recordkeeping and Reporting for Exempt Emission Units**
11625

11626 Upon request by the Agency, the owner or operator of an aerosol can filling line or propellant
11627 booster pump which is exempt from Subpart DD must submit to the Agency records
11628 documenting that the aerosol can filling line or propellant booster pump is exempt from those
11629 requirements. These records must be submitted within 30 calendar days after the date of the
11630 request.
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11632 (Source: Amended at 50 Ill. Reg. _____, effective
11633 _____)
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Section 218.692 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of an aerosol can filling line or propellant booster pump which is subject to Subpart DD and complying by using emission capture and control equipment must comply with the following:
- 1) By an applicable date under Section 218.106, or upon initial start-up of an aerosol can filling line or propellant booster pump, the owner or operator of the subject line or pump must demonstrate to the Agency that the subject line or pump will be in compliance on and after an applicable date under Section 218.106 or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.
 - 2) On and after an applicable date under Section 218.106, or on and after the initial start-up date, the owner or operator of a subject line or pump must collect and record all of the following information each day and maintain the information at the source for three years:
 - A) Control device monitoring data;
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated lines and pumps; and
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
 - 3) On and after an applicable date under Section 218.106, the owner or operator of a subject line or pump must notify the Agency:
 - A) Of a violation of Subpart DD by sending a copy of any records showing the violation to the Agency within 30 days after the violation; and
 - B) At least 30 calendar days before changing the method of compliance with Subpart DD from using capture systems and control devices to methods of filling cans, including use of a reclamation system or pump work practice, the owner or operator

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must comply with subsections (b)(1) or (c)(1), respectively. Upon changing the method of compliance with Subpart DD from using capture systems and control devices to compliance with the methods of filling cans or work practices, the owner or operator must comply with subsections (b) or (c), respectively.

- b) Any owner or operator of an aerosol can filling line which is subject to Subpart DD and complying by using the methods of filling cans, including using a reclamation system, must comply with the following:
- 1) By an applicable date under Section 218.106 , or upon initial start-up of a line subject to Subpart DD, the owner or operator of the subject line must certify to the Agency that the line will be in compliance on and after an applicable date under Section 218.106 or on and after the initial start-up date. The certification must include:
 - A) The name and identification number of each line which will comply by means of the methods of filling cans;
 - B) The name and manufacturer's description of the can filling system;
 - C) Calculations and other data to demonstrate the propellant losses with these systems, including a description and results of any test the owner or operator has performed;
 - D) Technical and production data, along with calculations to demonstrate that the required percentage of cans capable of being filled using through-the-valve fill will be filled using through-the-valve fill;
 - E) For a reclamation system, the parameters which will be monitored to demonstrate proper system operation, with justification;
 - F) For a system approved in a federally enforceable permit, identification of the permit; and
 - G) An example of the records which will be kept under (b)(2) and (b)(3).
 - 2) On and after an applicable date under Section 218.106 or on and after the initial start-up date, the owner or operator of a subject line must collect

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and record the following information for each type of product that is not filled by the through-the-valve method. Information must be provided only under subsections (B), (C), (D), and (E) to the extent that the information is relied on by the owner or operator to demonstrate that a product is not capable of being filled by the through-the-valve method. For this purpose, each formulation in a particular type of can with a particular type of valve assembly must be addressed separately as a unique product, considering the range of models of cans and valve assemblies, e.g., suppliers, sizes, and weights of the type used for such product:

- A) Identifying information for the product type, including identification and description of the cans' contents, type, and model of cans; type and models of valve assembly; and type of propellant and nominal propellant charge;
 - B) Whether the valve assembly is able to be through-the-valve filled;
 - C) Under-the-cup operating rate and projected through-the-valve fill operating rate;
 - D) Information addressing the impact of through-the-valve fill on performance;
 - E) Other supporting data; and
 - F) Whether the product is deemed capable of being filled by the through-the-valve method.
- 3) On and after an applicable date under Section 218.106 or on and after the initial start-up date, the owner or operator of a subject line must collect and record all of the following information each day for each line and maintain the information at the source for three years:
- A) Operating data for the line and fill systems;
 - B) For a reclamation system, system monitoring data; and
 - C) Number of cans filled which are capable of being filled using through-the-valve fill, determined in compliance with the records kept under subsection (b)(2) and percentage of the cans actually filled using through-the-valve fill.

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- 4) On and after the applicable date under Section 218.106, the owner or operator of a subject line must notify the Agency:
- A) Of a violation of Subpart DD by sending a copy of any record showing the violation to the Agency within 30 days after the calendar quarter in which the violation occurred;
- B) At least 30 calendar days before changing the method of compliance with Subpart DD from the methods of filling cans to using capture systems and control devices, the owner or operator must comply with subsection (a)(1). Upon changing the method of compliance, the owner or operator must comply with subsection (a).
- c) Any owner or operator of a propellant booster pump which is subject to Subpart DD and complying by using work practices must comply with the following:
- 1) By an applicable date under Section 218.106, or upon initial start-up of a pump subject to Subpart DD, the owner or operator of the subject pump must certify to the Agency that the pump will be in compliance on and after an applicable date under Section 218.106 or on and after the initial start-up date. The certification must include:
- A) The name and identification number of each pump which will comply by means of work practices;
- B) The work practices which will be followed for the pump, including the means which will be used to determine whether the pump is leaking indicated by loss of VOM compared to background levels;
- C) For work practices approved in a federally enforceable permit, identification of the permit; and
- D) An example of the records which will be kept under subsection (c)(2).
- 2) On and after an applicable date under Section 218.106 or on and after the initial start-up date, the owner or operator of a subject pump must collect and record all of the following information each day for each pump and maintain the information at the source for three years:
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- A) Operating data for each pump, including date and time a leak in a pump is detected, date and time a leaking pump is removed from service, and action taken to repair a pump; and
- B) A maintenance log for the pump detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after an applicable date under Section 218.106, the owner or operator of a subject pump must notify the Agency:
- A) Of a violation of Subpart DD by sending a copy of any record showing the violation to the Agency within 30 days ~~after the~~ after the violation;
- B) At least 30 calendar days before changing the method of compliance with Subpart DD from work practices to using emission capture and control equipment, the owner or operator must submit a revised certification under subsection (a)(1). Upon changing the method of compliance with Subpart DD, the owner or operator must comply with subsection (a).

(Source: Amended at 50 Ill. Reg. , effective
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SUBPART GG: MARINE TERMINALS

Section 218.760 Applicability

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- a) This Subpart applies to sources that load or who are permitted to load gasoline or crude oil.
- b) This Subpart does not apply to the following activities:
- 1) Loading of liquids associated with the fueling of marine vessels; or
- 2) Transferring liquids from one marine vessel to another marine vessel.

(Source: Amended at 50 Ill. Reg. , effective
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Section 218.762 Control Requirements

- a) Except as provided at subsection (c), every owner or operator of a marine terminal subject to this Subpart must equip each terminal with a vapor collection and control system that:
- 1) Captures the vapors displaced during the loading event and reduces overall VOM emissions by at least 95% by weight through using either a vapor combustion system or a vapor recovery system;
 - 2) Is maintained and operated so that it prevents visible liquid leaks, significant odors, and visible fumes in the liquid transfer and the vapor collection lines and appurtenances during loading; and
 - 3) Has been certified as required by Coast Guard regulations at 33 CFR 154.
- b) During the regulatory control period of May 1 to September 15, every owner or operator of a marine terminal subject to this Subpart must load gasoline or crude oil only into marine vessels that are:
- 1) Equipped with vapor collection equipment that has been certified as required by Coast Guard regulations at 46 CFR 39;
 - 2) Connected to the vapor collection system; and
 - 3) Vapor-tight as described in subsections (b)(3)(A), (b)(3)(B), (b)(3)(C), or (b)(3)(D) ~~on~~:
 - A) The owner or operator of the marine terminal must load each marine vessel with a vacuum assisted vapor collection system, instrumented so that the pump(s) transferring gasoline or crude oil to the marine vessel will not operate unless the vapor collection system is properly connected and properly operating.
 - B) As an alternative to subsection (b)(3)(A), the owner or operator of the marine terminal must obtain documentation under Section 218.770(b) that the marine vessel has been vapor-tightness tested within either the ~~preceeding~~preceding 12 months or the preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR

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31.10-17, using Method 21 of 40 CFR 60. Appendix A-7, incorporated by reference at Section 218.112, as described in Section 218.768(b).

- C) If there is no documentation of a successful leak test conducted on the marine vessel in either the ~~preceeding~~preceding 12 months or the preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR 31.10-17, the owner or operator of the marine terminal must require that a leak test of the marine vessel be conducted during the final 20% of loading of the marine vessel or must not load the vessel. The test must be conducted when the marine vessel is being loaded at the maximum liquid transfer rate for that transfer operation. The owner or operator of the marine terminal must require that the documentation under Section 218.770(b) is completed before the departure of the vessel.
- D) If the marine vessel has failed its most recent vapor-tightness leak test at the marine terminal, before the marine vessel can be loaded, the owner or operator of the marine terminal must require that the owner or operator of the marine vessel provide documentation that the leaks detected during the previous vapor-tightness leak test have been repaired and that the marine vessel has been vapor-tightness tested since the leak(s) has been repaired under subsection (b)(3)(B).

- c) As an alternative to the control requirements of subsections (a) and (b), an owner or operator of a marine terminal subject to the control requirements of this Subpart may comply by showing:
- 1) Operation of a vapor collection and control system to load gasoline or crude oil from marine vessels in compliance with the regulations adopted by USEPA under Sections 112(d) or 183(f) of the CAA;
 - 2) Reduction of VOM emissions equivalent to the levels in Appendix E through a federally enforceable emission reduction plan; or
 - 3) An alternate procedure approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.
- d) Nothing in this Subpart supersedes any U.S. Coast Guard regulation that is more

**POLLUTION CONTROL BOARD
NOTICE OF PROPOSED AMENDMENTS**

stringent than this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.764 Compliance Certification

By May 1, 1996, upon initial startup, or upon change in method of compliance, the owner or operator of a source subject to this Subpart must certify compliance with this Subpart by submitting to the Agency the following:

- a) If complying with Sections 218.762(a) and (b), or (c)(1), or (c)(3):
 - 1) The type of vapor collection and control system used;
 - 2) The date the system was installed;
 - 3) A demonstration that the vapor collection and control system achieves an overall efficiency of 95%;
 - 4) A copy of the U.S. Coast Guard certification required under 33 CFR 154; and
 - 5) The location (including the contact person's name, address, and telephone number) of the records required by Section 218.770.
- b) If complying with Section 218.762(c)(2), a federally enforceable emission reduction plan.
- c) If not loading during the 1996 regulatory control period or the 1996 and 1997 regulatory control periods, a statement that the source will not be loading gasoline or crude oil, the regulatory control period affected, and a date certain when the requirements of subsection (a) will be met. Further, if the owner or operator is also required to comply with the control requirements for marine vessel loading adopted under Section 112(d) or Section 183(f) of the CAA, then the statement of not loading may extend to subsequent regulatory control periods until installing and operating the control equipment is required under Section 112(d) or Section 183(f) of the CAA.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

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Section 218.766 Leaks

The owner or operator of a marine terminal must comply with Section 218.445 with respect to all equipment associated with the vapor collection and control system required by Section 218.762(a).

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.768 Testing and Monitoring

- a) Compliance with Section 218.762(a)(2) must be determined by visual inspection and the leak detection methods in Section 218.105(g).
- b) If the control device used to comply with Section 218.762(a)(1) is a flare, compliance must be determined by methods in Section 218.429(c).
- c) For all other control devices used to comply with Section 218.762(a)(1), compliance must be determined by methods in Section 218.105(d) and (f).
- d) Compliance with Section 218.762(b)(3) must be determined by one of the methods in this Section:
 - 1) A marine vessel loaded in compliance with Section 218.762(b)(3)(A) using a vacuum assisted vapor collection system is assumed to be vapor-tight for this Subpart.
 - 2) A vapor-tightness test for marine vessels must be conducted to include the final 20% of loading of each product tank of the marine vessel, and it must be applied to any potential sources of vapor leaks on the vessel under Method 21 of 40 CFR 60. Appendix A-7, incorporated by reference at Section 218.112. A reading of 10,000 ppmv or greater as methane constitutes a leak.
 - 3) As an alternative to subsection (d)(2), an owner or operator of a marine terminal may use the vapor-tightness test in 40 CFR 61.304(f), incorporated by reference at Section 218.112.
- e) When in the opinion of the Agency or USEPA it is necessary to conduct testing to demonstrate compliance with or verify effectiveness of the vapor collection and

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control system required by Section 218.762(a), (c)(1), or (c)(3), the owner or operator of a marine terminal must at its own expense conduct the tests in compliance with the applicable test methods and procedures in subsections (a), (b), or (c), as applicable.

- f) An owner or operator of a marine terminal planning to conduct a VOM emissions test to demonstrate compliance with Sections 218.762(a), (c)(1), or (c)(3) must notify the Agency of that intent at least 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.770 Recordkeeping and Reporting

- a) The owner or operator of sources complying with Sections 218.762(a) and (b), or (c)(1), or (c)(3) must maintain records regarding the marine terminal and each time a marine vessel is loaded during the regulatory control period. The records must include:
- 1) Each date and time at which the marine vessel was loaded from the marine terminal;
 - 2) The name, type, identification number, and owner of the vessel loaded;
 - 3) The type and amount of liquid loaded into the marine vessel;
 - 4) Records of any leaks found, repair attempts, and the results of the required fugitive monitoring and maintenance program, including appropriate dates, test methods, instrument readings, repair results, and corrective action taken as required by Sections 218.762(a)(2) and 218.766;
 - 5) A copy of the Coast Guard certification demonstrating that the marine terminal's vapor collection and control system has been certified as required by Coast Guard regulations at 33 CFR 154; and
 - 6) A copy of the Coast Guard certification demonstrating that the marine vessel has been inspected and certified as required by Coast Guard regulations at 46 CFR 39. If a copy of the Coast Guard certificate is not available at the time of loading, then the date that the marine vessel was last inspected and the authorization that the marine vessel has functioning

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vapor control equipment must be recorded from the certificate. A copy of the certificate must be obtained by the owner or operator of the marine terminal within 21 days after the loading event.

- b) Owners or operators complying with Sections 218.762(b)(3)(B), (b)(3)(C), or (b)(3)(D) must also maintain the following records concerning the vapor-tightness of the marine vessel:
- 1) Test title;
 - 2) Owner of the marine vessel tested;
 - 3) The identification number of the marine vessel tested;
 - 4) Testing location;
 - 5) Tester name and signature;
 - 6) Witnessing inspector, name, signature, and affiliation; and
 - 7) Test results.
- c) Owners or operators complying with Section 218.762(c)(2) must maintain records of daily product volumes loaded to demonstrate that the applicable emission reduction in Appendix E has been achieved.
- d) Owners or operators certifying compliance under Section 218.764(c) must maintain the records in subsections (a)(1), (a)(2), and (a)(3).
- e) All records required by subsections (a), (b), (c), and (d) must be maintained for at least three years and must be made available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

SUBPART HH: MOTOR VEHICLE REFINISHING

Section 218.780 Emission Limitations

- a) Except under Section 218.782, an owner or operator of a motor vehicle refinishing operation must not coat motor vehicles, mobile equipment, or their

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parts and components unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, excluding water and any compounds that are specifically exempted from the definition of VOM. The VOM content limitations are as follows:

		kg/l	(lb/gal)
1)	Pretreatment wash primer	0.78	(6.5)
2)	Precoat	0.66	(5.5)
3)	Primer/primer surfacer coating	0.58	(4.8)
4)	Primer sealer	0.55	(4.6)
5)	Topcoat system or basecoat/clearcoat	0.60	(5.0)
6)	Three or four stage topcoat system	0.63	(5.2)
7)	Specialty coatings	0.84	(7.0)
8)	Anti-glare/safety coating	0.84	(7.0)

- b) All coating must be used according to manufacturer's specifications. If a coating requires adding a reducer, hardener, or other additive in some combination, this addition must not cause the coating as applied to exceed the applicable VOM content limitation.
- c) Specialty coatings must not represent more than 5%, by volume, of all coatings applied at a source on a monthly basis.
- d) The following equations must be used to calculate the VOM content of topcoat systems:
- 1) The VOM content of basecoat/clearcoat systems must be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (excluding water and any compounds which are specifically exempted from the definition of VOM), according to the following equation:

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(Mod)

$$VOM\ T_{bc/cc} = (VOM_{bc} + 2\ VOM_{cc})/3$$

Where:

~~VOM $T_{bc/cc}$ = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system;~~

VOM $T_{bc/cc}$ = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

~~VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat; and~~

~~VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.~~

- 2) The VOM content for a three-stage coating system must be calculated in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

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(Mod)

$$VOM\ T_{ms} = (VOM_{bc} + VOM_{mc} + 2\ VOM_{cc}) / 4$$

Where:

~~VOM T_{ms} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoat, and clearcoat system;~~

VOM T_{ms} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoat and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given midcoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

~~VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;~~

~~VOM_{mc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given midcoat; and~~

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~~VOM_{ee} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.~~

- 3) The VOM content for a four-stage coating system must be calculated in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

(Mod)

$$\text{VOM } T_{ms} = (\text{VOM}_{bc} + \text{VOM}_{mc1} + \text{VOM}_{mc2} + 2 \text{VOM}_{ee}) / 4$$

Where:

~~VOM T_{ms} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoats, and clearcoat system;~~

VOM T_{ms} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoats and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc1} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of the first midcoat;

VOM_{mc2} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of the second midcoat; and

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VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

~~VOM_{be} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;~~

~~VOM_{me1} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of the first midcoat;~~

~~VOM_{me2} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of the second midcoat; and~~

~~VOM_{ee} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.782 Alternative Control Requirements

As an alternative to complying with the VOM content limitations in Section 218.780, the owner or operator of a motor vehicle refinishing operation may operate control equipment that reduces VOM emissions at the source by at least 90% under subsection (a) or (b).

- a) An owner or operator may operate an afterburner or carbon adsorber; or
- b) An owner or operator may use an equivalent alternative control plan, other than an afterburner or carbon adsorber, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.784 Equipment Specifications

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Every owner or operator of a motor vehicle refinishing operation, unless the source uses less than 20 gallons of coating per calendar year from all motor vehicle refinishing operations combined, must:

- a) Coat motor vehicles, mobile equipment, or their parts and components using one of the following coating applicators:
 - 1) Electrostatic spray equipment calibrated, operated, and maintained in compliance with the manufacturer's specifications;
 - 2) High Volume Low Pressure (HVLP) spray equipment calibrated, operated, and maintained in compliance with the manufacturer's specifications; or
 - 3) An equivalent coating applicator technology that is demonstrated by the manufacturer to achieve transfer efficiency comparable to the HVLP spray equipment technology in subsection (a)(2) for a comparable operation, and for which written approval has been obtained from USEPA. The owner or operator must maintain documentation of USEPA's approval at the motor vehicle refinishing operation; and
- b) Clean all coating applicators with a device that:
 - 1) Recirculates solvent during the cleaning process;
 - 2) Collects spent solvent so it is available for disposal or recycling; and
 - 3) Minimizes evaporation of solvents during cleaning, rinsing, draining, and storage.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.786 Surface Preparation Materials

Every owner or operator of a motor vehicle refinishing operation must use only surface preparation materials that never exceed the following VOM content limitations for the specified substrate:

<u>a)</u>	<u>Plastic parts</u>	<u>kg/l</u>	<u>(lb/gal)</u>
		<u>0.78</u>	<u>(6.5)</u>

<u>b)</u>	<u>Other substrates</u>	<u>0.17</u>	<u>(1.4)</u>

Section 218.787 Work Practices

- (Source: Amended at 50 Ill. Reg. _____, effective _____)

- a) Upon request by the Agency, the owner or operator of a motor vehicle refinishing operation must at its own expense conduct tests to demonstrate compliance with Sections 218.780, 218.782, or 218.786 in compliance with the applicable test methods and procedures in Section 218.105 and must:
 - 1) Notify the Agency 30 days before conducting the tests; and
 - 2) Submit all test results to the Agency within 45 days after conducting the tests.
- b) For this Section, surface preparation materials must be treated as coatings.
- c) Nothing in this Section limits the authority of USEPA under the CAA, as amended, to require testing or affects the authority of USEPA under Section 114 of the CAA [42 U.S.C. 7414 (1990)].

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.789 Monitoring and Recordkeeping for Control Devices

- a) Every owner or operator of a motor vehicle refinishing operation that complies with this Subpart under Section 218.782 must:
- 1) Install and operate equipment to continuously monitor each control device as specified in Section 218.105(d)(2)(A);
 - 2) Keep records of parameters for control devices as monitored under subsection (a)(1);
 - 3) Keep logs of operating time of the control device and monitoring equipment;
 - 4) Keep logs of maintenance of the control device and monitoring equipment; and
 - 5) Maintain all records required in this Section for the most recent consecutive three-year period and make all such records available to the Agency immediately upon request.
- b) An owner or operator may monitor with an alternative method or monitor other parameters than specified in subsection (a)(1), if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.791 Compliance Date

Every owner or operator of a motor vehicle refinishing operation must comply with this Subpart by March 15, 1996, upon modification, or upon initial startup.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

Section 218.890 Applicability

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- 12327
- 12328 a) Except under subsection (b), on and after May 1, 2012, this Subpart applies to the
- 12329 owners or operators of sources that manufacture hulls or decks of boats from
- 12330 fiberglass or that build molds to make hulls or decks of boats from fiberglass and
- 12331 that emit at least 6.8 kg/day (15 lbs/day) of VOM, calculated in compliance with
- 12332 Section 218.894(a)(1)(B), from open molding resin and gel coat operations, resin
- 12333 and gel coat mixing operations, and resin and gel coat application equipment
- 12334 cleaning operations without air pollution control equipment. If a source is subject
- 12335 to this Subpart based upon these criteria, this Subpart applies to the manufacture
- 12336 of all fiberglass boat parts at the source.
- 12337
- 12338 b) Despite subsection (a), this Subpart does not apply to the following:
- 12339
- 12340 1) Surface coatings applied to fiberglass boats;
- 12341
- 12342 2) Industrial adhesives used in the assembly of fiberglass boats. Polyester
- 12343 resin putties used to assemble fiberglass parts are not considered industrial
- 12344 adhesives for this exclusion; or
- 12345
- 12346 3) Closed molding operations.
- 12347
- 12348 c) If a source is or becomes subject to at least one of the limitations in this Subpart,
- 12349 the source is always subject to the applicable provisions of this Subpart.
- 12350
- 12351 d) The owner or operator of a source exempt from the limitations of this Subpart
- 12352 because of the criteria in this Section is subject to the recordkeeping and reporting
- 12353 requirements in Section 218.894(a).
- 12354

12355 (Source: Amended at 50 Ill. Reg. _____, effective

12356 _____)

12357

Section 218.891 Emission Limitations and Control Requirements

12358

12359

- 12360 a) Except under subsection (f), an owner or operator of a source subject to this
- 12361 Subpart must not use a subject resin or gel coat at the source unless the resin and
- 12362 gel coat comply with subsection (b)(1) or (b)(2), (c), or (d) and subsections (e),
- 12363 (g), and (h). For sources complying under subsection (b) or (c), if the
- 12364 non-monomer VOM content of a resin or gel coat exceeds 5% by weight, the
- 12365 excess non-monomer VOM must be added to the monomer VOM content of the
- 12366 resin or gel coat. The excess non-monomer VOM must be calculated in
- 12367 compliance with the following equation:

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$$\begin{array}{rcl} \text{Excess} & & \text{Non-monomer VOM Content} \\ \text{Non-Monomer} & = & - 5\% \text{ by weight} \\ \text{VOM} & & \end{array}$$

b) VOM Content Limitations

- 1) Except under subsection (e), the monomer VOM content of a subject resin or gel coat must not exceed the following limitations:

	Weighted average monomer VOM content (weight percent)
A) Production resin	
i) Atomized spray	28
ii) Non-atomized	35
B) Pigmented gel coat	33
C) Clear gel coat	48
D) Tooling resin	
i) Atomized	30
ii) Non-atomized	39
E) Tooling gel coat	40

- 2) Except under subsection (e), the weighted average monomer VOM content of a subject resin or gel coat must not exceed the applicable limitation in subsection (b)(1) on a 12-month rolling average basis. Equation 1 must be used to determine the weighted average monomer VOM content for resin and gel coat materials.

Equation 1:

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$$\frac{\text{Weighted Average Monomer VOM Content}}{\text{Monomer VOM Content}} = \frac{\sum_{i=1}^n M_i VOM_i}{\sum_{i=1}^n M_i}$$

where:

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in Mg;

VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation;

n = Number of different open molding resins or gel coats used in the past 12 months in an operation.

- c) Emissions Averaging Alternative. The owner or operator of a source subject to this Subpart may elect to include some or all of the subject resin and gel coat operations at the source in the emissions averaging alternative. Resin and gel coat operations using the emissions averaging alternative must comply with a source-specific monomer VOM mass emission limit on a 12-month rolling average basis, calculated at the end of each calendar month. All subject resin and gel coat operations that do not use the emissions averaging alternative must comply with subsection (b) or (d) and all other applicable requirements in this Section.

- 1) The owner or operator of a source subject to this subsection (c) must use Equation 2 to determine the source-specific monomer VOM mass emission limit for resin and gel coats included in the emissions average:

Equation 2:

$$\text{Monomer VOM Limit} = 46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})$$

where:

Monomer VOM Limit = Total allowable monomer VOM that can be emitted from the open molding operations included in the

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average, expressed in kg per 12-month period;

M_R = Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{PG} = Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{CG} = Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TR} = Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TG} = Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg.

The numerical coefficients associated with each term on the right side of Equation 2 are the allowable monomer VOM emission rates for that particular material in units of kg VOM/Mg of material used.

- 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, the owner or operator of a source subject to this subsection (c) must use Equation 3 to calculate the monomer VOM emissions from the resin and gel coat operations included in the emissions average. The monomer VOM emissions calculated using Equation 3 must not exceed the monomer VOM limit calculated using Equation 2.

Equation 3:

$$\begin{array}{l} \text{Monomer} \\ \text{VOM} \\ \text{Emissions} \end{array} = \frac{(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})}{1}$$

where:

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Monomer VOM Emissions = Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in kilograms;

PV_R = Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed in kg/Mg, calculated in compliance with Equation 4 in subsection (c)(3);

M_R = Mass of production resin used in the past 12 months, expressed in Mg;

PV_{PG} = Weighted-average monomer VOM emission rate for pigmented gel coat used in the past 12 months, expressed in kg/Mg, calculated under Equation 4;

M_{PG} = Mass of pigmented gel coat used in the past 12 months, expressed in Mg;

PV_{CG} = Weighted-average monomer VOM emission rate for clear gel coat used in the past 12 months, expressed in kg/Mg, calculated under Equation 4;

M_{CG} = Mass of clear gel coat used in the past 12 months, expressed in Mg;

PV_{TR} = Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in kg/Mg, calculated under Equation 4;

M_{TR} = Mass of tooling resin used in the past 12 months, expressed in Mg;

PV_{TG} = Weighted-average monomer VOM emission rate for tooling gel coat used in the past 12 months, expressed in kg/Mg, calculated under Equation 4;

M_{TG} = Mass of tooling gel coat used in the past 12 months, expressed in Mg.

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- 3) For Equation 3, the owner or operator of a source subject to this subsection (c) must use Equation 4 to calculate the weighted-average monomer VOM emission rate for the previous 12 months for each resin and gel coat operation included in the emissions average, except under subsection (e).

Equation 4:

$$PV_{OP} = \frac{\sum_{i=1}^n M_i PV_i}{\sum_{i=1}^n M_i}$$

where:

PV_{OP} = Weighted-average monomer VOM emission rate for each open molding operation (PV_R , PV_{PG} , PV_{CG} , PV_{TR} , and PV_{TG}) included in the average, expressed in kg of monomer VOM per Mg of material applied;

M_i = Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in Mg;

n = Number of different open molding resins and gel coats used within an operation in the past 12 months;

PV_i = The monomer VOM emission rate for resin or gel coat (i) used within an operation in the past 12 months, expressed in kg of monomer VOM per Mg of material applied. The monomer VOM emission rate formulas in subsection (c)(4) must be used to compute PV_i . If a source includes filled resins in the emissions average, the source must use the value of PV_F , calculated using Equation 5 in subsection (e)(3), as the value of PV_i for those resins;

i = Subscript denoting a specific open molding resin or gel coat applied.

- 4) For Equation 4 and subsection (e)(3), the following monomer VOM emission rate formulas must apply. These formulas calculate monomer

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VOM emission rates in terms of kg of monomer VOM per Mg of resin or gel coat applied. "VOM%" means the monomer VOM content as supplied, expressed as a weight percent value between 0% and 100%:

A) Production resin, tooling resin:

- i) Atomized: $0.014 \times (\text{Resin VOM}\%)^{2.425}$
- ii) Atomized, plus vacuum bagging with roll-out: $0.01185 \times (\text{Resin VOM}\%)^{2.425}$
- iii) Atomized, plus vacuum bagging without roll-out: $0.00945 \times (\text{Resin VOM}\%)^{2.425}$
- iv) Nonatomized: $0.014 \times (\text{Resin VOM}\%)^{2.275}$
- v) Nonatomized, plus vacuum bagging with roll-out: $0.0110 \times (\text{Resin VOM}\%)^{2.275}$
- vi) Nonatomized, plus vacuum bagging without roll-out: $0.0076 \times (\text{Resin VOM}\%)^{2.275}$

B) Pigmented gel coat, clear gel coat, tooling gel coat: $0.445 \times (\text{Gel Coat VOM}\%)^{1.675}$

d) Capture System and Control Device Requirements. An owner or operator of a source subject to this Subpart that is using a capture system and control device for a subject resin or gel coat operation must not conduct that operation unless the following requirements are satisfied:

- 1) An afterburner or carbon adsorber is installed and operated that meets the limitations in this subsection (d). The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if that device complies with all limitations in this subsection (d), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device, and the plan is approved by the Agency and approved by USEPA as a SIP revision;
- 2) The VOM emissions at the outlet of the control device meet an emissions limitation determined using Equation 2 in subsection (c)(1). In Equation

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2, however, instead of using the mass of each material used over the past 12 months to determine the emission limitation, the owner or operator must use the mass of each material used during the applicable control device performance test; and

- 3) The owner or operator complies with all testing and monitoring requirements in Section 218.892.

- e) Filled Resins. For all filled production and tooling resins, the owner or operator of a source subject to this Subpart must adjust the monomer VOM emission rates determined under subsections (b) and (c) using Equation 5 in subsection (e)(3). If complying under subsection (b), the emission rate determined using Equation 5 must not exceed the limitations in subsections (e)(1) and (e)(2). If complying under subsection (c), the value of PV_F , calculated using Equation 5 must be used as the value of PV_i in Equation 4 in subsection (c)(3). If the non-monomer VOM content of a filled resin exceeds 5% by weight, based on the unfilled resin, the excess non-monomer VOM must be added to the monomer VOM content in compliance with the equation in subsection (a).

- 1) Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;
- 2) Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin applied;
- 3) Equation 5:

$$PV_F = PV_U \times \frac{100 - \% \text{ Filler}}{100}$$

where:

PV_F = The as-applied monomer VOM emission rate for the filled production resin or tooling resin, expressed in kg monomer VOM per Mg of filled material;

PV_U = The monomer VOM emission rate for the unfilled resin, before filler is added, expressed in kg monomer VOM per Mg, as calculated using the formulas in Section 218.891(c)(4);

% Filler = The weight-percent of filler in the as-applied filled resin

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system.

- 12511
- 12512 f) The limitations in subsections (a) through (e) do not apply to the following
- 12513 materials. These materials must instead comply with the applicable requirements
- 12514 in subsections (f)(1) through (f)(3).
- 12515
- 12516 1) Production resins, including skin coat resins, that must meet specifications
- 12517 for use in military vessels or must be approved by the United States Coast
- 12518 Guard for use in constructing lifeboats, rescue boats, and other life-saving
- 12519 appliances approved under 46 CFR Subchapter Q, incorporated by
- 12520 reference in Section 218.112, or for use in the construction of small
- 12521 passenger vessels regulated by 40 CFR Subchapter T, incorporated by
- 12522 reference in Section 218.112. The owner or operator of a source subject to
- 12523 this Subpart must apply all resins with nonatomizing resin application
- 12524 equipment;
- 12525
- 12526 2) Production and tooling resins, and pigmented, clear, and tooling gel coats
- 12527 used for part or mold repair and touch ups. These materials must not
- 12528 exceed 1% by weight of all resins and gel coats used at a subject source on
- 12529 a 12-month rolling average basis;
- 12530
- 12531 3) Pure 100% vinyl ester resins used for skin coats. The owner or operator of
- 12532 a source subject to this Subpart must apply these resins with
- 12533 non-atomizing resin application equipment, and the total amount of the
- 12534 resins must not exceed 5% by weight of all resins used at the subject
- 12535 source on a 12-month rolling-average basis.
- 12536
- 12537 g) An owner or operator of a source subject to this Subpart must not use
- 12538 VOM-containing cleaning solutions to remove cured resins and gel coats from
- 12539 fiberglass boat manufacturing application equipment. Additionally, an owner or
- 12540 operator must not use VOM-containing cleaning solutions for routine cleaning of
- 12541 application equipment unless:
- 12542
- 12543 1) The VOM content of the cleaning solution is 5% or less by weight; or
- 12544
- 12545 2) The composite vapor pressure of the cleaning solution is 0.50 mmHg or
- 12546 less at 68 °F.
- 12547
- 12548 h) An owner or operator of a source subject to this Subpart must not use resin or gel
- 12549 coat mixing containers with a capacity of at least 208 l (55 gal), including those
- 12550 used for on-site mixing of putties and polyputties, unless the containers have

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covers with no visible gaps in place at all times, except when material is being manually added to or removed from a container or when mixing or pumping equipment is being placed in or removed from a container.

(Source: Amended at 50 Ill. Reg. _____, effective
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Section 218.892 Testing and Monitoring Requirements

- a) Testing to demonstrate compliance with Section 218.891 must be conducted by the owner or operator by May 1, 2012, after which testing must be conducted within 90 days after a request by the Agency, or as otherwise specified in this Subpart. The testing must be conducted at the expense of the owner or operator, and the owner or operator must notify the Agency in writing 30 days before conducting the testing to allow the Agency to be present during testing.
- b) Testing to demonstrate compliance with the monomer VOM content limitations for resin and gel coat materials in Section 218.891(b) must be conducted upon request of the Agency, or as otherwise specified in this Subpart, in compliance with SCAQMD 312-91, incorporated by reference in Section 218.112.
- c) The owner or operator of a source complying with this Subpart under Section 218.891(d) must comply with the following:
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, conduct an initial performance test of the control device in compliance with this subsection (c) that demonstrates compliance with the emission limitation determined under Section 218.891(d).
 - 2) After the initial performance test under subsection (c)(1), conduct at least one performance test per calendar year. Performance tests used to demonstrate compliance with Section 218.891(d) must be conducted at least six months apart, unless the performance test is being conducted after an exceedance of operating parameters under subsection (c)(3), or when requested by the Agency.
 - 3) Monitor and record relevant operating parameters, including the control efficiency of the control device and the amount of materials used in the fiberglass boat manufacturing process, during each control device performance test used to demonstrate compliance with Section

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218.891(d). The owner or operator must continue to operate the fiberglass boat manufacturing process within the parameters until another performance test is conducted that demonstrates compliance with Section 218.891(d). The owner or operator must monitor the parameters at all times when the control device is in operation. If the fiberglass boat manufacturing process exceeds any operating parameter by more than 10%, the owner or operator must conduct additional performance testing in compliance with this Section within 10 operating days after the exceedance.

- 4) The methods and procedures of Section 218.105(d) and (f) must be used for testing to demonstrate compliance with Section 218.891(d), as follows:

- A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference at Section 218.112. The sampling sites to determine efficiency in reducing VOM from the dryer exhaust must be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
- B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference at Section 218.112;
- C) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60.Appendix A-7, incorporated by reference at Section 218.112. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - i) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - ii) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv or less, as carbon; and
 - iii) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet

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concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest must be conducted using either Method 25 or 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest again using Method 25;

- D) Despite the criteria or requirements in Method 25, which specifies a minimum probe temperature of 129 °C (265 °F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7 °C (350 °F); and
- E) During testing, the fiberglass boat manufacturing operation must be operated at representative operating conditions and flow rates.
- 5) If an afterburner is used to demonstrate compliance, the owner or operator must:
- A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3 °C or 5 °F on the emissions control system in compliance with Section 218.105(d)(2) and in compliance with the manufacturer's specifications. Monitoring must be performed at all times when the emissions control system is operating; and
- B) Install, calibrate, operate, and maintain in compliance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- 6) If a carbon adsorber is used to demonstrate compliance, the owner or operator must use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according

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to vendor specifications at all times the control device is in use. The continuous monitoring equipment must monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.

- 7) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator must install, maintain, calibrate, and operate the monitoring equipment in compliance with the owner's or operator's plan approved by the Agency and USEPA under Section 218.891(d).

- d) Testing to demonstrate compliance with the VOM content limitations for cleaning solutions in Section 218.891(g), and with the non-monomer VOM content limitations for resin and gel coat materials in Section 218.891(a) must be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:

- 1) The applicable test methods and procedures in Section 218.105(a) must be used; however, Method 24, incorporated by reference at Section 218.112, must be used to demonstrate compliance; or
- 2) For cleaning solvents, the manufacturer's specifications for VOM content may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in compliance with methods in Section 218.105(a); however, Method 24 must be used to determine compliance. If there is any inconsistency between a Method 24 test and the manufacturer's specifications, the Method 24 test must govern.

- e) The owner or operator of a source subject to this Subpart and relying on the VOM content of the cleaning solution to comply with Section 218.891(g)(1) must:

- 1) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
- A) Install, operate, maintain, and calibrate the automatic feed equipment in compliance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and

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- 12713 B) Pre-set the automatic feed equipment so that the consumption rates
12714 of the cleaning solvent and water (or other non-VOM), as applied,
12715 comply with Section 218.891(g)(1);
12716
- 12717 2) For cleaning solutions that are not prepared at the source with automatic
12718 feed equipment, keep records of the usage of cleaning solvent and water
12719 (or other non-VOM) under Section 218.894(g).
12720
- 12721 f) Testing to demonstrate compliance with the VOM composite partial vapor
12722 pressure limitation for cleaning solvents in Section 218.891(g) must be conducted
12723 in compliance with the applicable methods and procedures in Section 218.110.
12724

12725 (Source: Amended at 50 Ill. Reg. _____, effective
12726 _____)
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Section 218.894 Recordkeeping and Reporting Requirements

- 12728
12729
- 12730 a) The owner or operator of a source exempt from this Subpart because of the
12731 criteria in Section 218.890(a) must:
12732
- 12733 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a
12734 certification to the Agency that includes the following:
12735
- 12736 A) A declaration that the source is exempt from the requirements in
12737 this Subpart because of the criteria in Section 218.890(a);
12738
- 12739 B) Calculations that demonstrate that combined emissions of VOM
12740 from all subject fiberglass boat manufacturing operations
12741 (including solvents used for cleanup operations associated with the
12742 fiberglass boat manufacturing operation) at the source never equal
12743 or exceed 6.8 kg/day (15 lbs/day) without air pollution control
12744 equipment. To calculate daily emissions of VOM, the owner or
12745 operator must determine the monthly emissions of VOM from
12746 fiberglass boat manufacturing operations at the source (including
12747 solvents used for cleanup operations associated with the fiberglass
12748 boat manufacturing operations) and divide the amount by the
12749 number of days during that calendar month that the fiberglass boat
12750 manufacturing operations were in operation;
12751
- 12752 2) Collect and record the following information and provide copies of the
12753 records to the Agency upon request:

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- A) The total pounds of all resins and gel coats used per calendar month;
 - B) The total gallons of all cleanup materials used per calendar month;
 - C) The VOM content of each resin, gel coat, and cleanup material used per calendar month;
 - D) The total VOM emissions, in pounds, for all resins, gel coats, and cleanup materials employed per calendar month, before applying control systems and devices.
- 3) Notify the Agency of any record that shows that the combined emissions of VOM from subject fiberglass boat manufacturing operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day) without air pollution control equipment, within 30 days after the event occurs, and provide copies of the record upon request by the Agency.
- b) All sources subject to this Subpart must:
- 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, and upon start-up of a new fiberglass boat manufacturing operation at the source, submit a certification to the Agency that includes:
 - A) Identification of each subject fiberglass boat manufacturing operation as of the date of certification;
 - B) A declaration that all subject fiberglass boat manufacturing operations, including related cleaning operations, are in compliance with this Subpart;
 - C) The limitation with which each subject fiberglass boat manufacturing operation will comply (i.e., the VOM content limitation, the emissions averaging alternative, or the emissions control system alternative);
 - D) Initial documentation that each subject fiberglass boat manufacturing operation will comply with the applicable

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- 12794 limitation, including copies of manufacturer's specifications, test
12795 results (if any), formulation data, and calculations;
12796
12797 E) Identification of the methods that will be used to demonstrate
12798 continuing compliance with the applicable limitations;
12799
12800 F) A description of the practices and procedures that the source will
12801 follow to ensure compliance with Section 218.891(h);
12802
12803 G) A description of each fiberglass boat manufacturing operation
12804 exempt under Section 218.890(b), if any; and
12805
12806 H) A description of materials subject to Section 218.891(f), if any,
12807 used in each fiberglass boat manufacturing operation;
12808
12809 2) At least 30 calendar days before changing the method of compliance under
12810 Section 218.891(b), (c), and (d), notify the Agency in writing of the
12811 change. The notification must include a demonstration of compliance
12812 with the newly applicable subsection;
12813
12814 3) Notify the Agency in writing of any violation of this Subpart within 30
12815 days after the violation and provide records documenting the violation
12816 upon request by the Agency; and
12817
12818 4) Retain all records required by this Section for at least three years and make
12819 those records available to the Agency upon request.
12820
12821 c) The owner or operator of a fiberglass boat manufacturing operation subject to
12822 Section 218.891 and complying under Section 218.891(b) must comply with the
12823 following.
12824
12825 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a
12826 certification to the Agency that includes the name, identification number,
12827 and VOM content of each subject resin and gel coat as applied each day
12828 by each subject fiberglass boat manufacturing operation;
12829
12830 2) Collect and record the following information each day for each fiberglass
12831 boat manufacturing operation complying with Section 218.891(b):
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- 12833 A) The name, identification number, and VOM content of each
12834 subject resin and gel coat as applied each day by each fiberglass
12835 boat manufacturing operation; and
12836
- 12837 B) If complying with Section 218.891(b)(2), the mass of each open
12838 molding resin or gel coat as applied each month by each subject
12839 fiberglass boat manufacturing operation, and the weighted average
12840 VOM content of all subject resins and gel coats as applied by each
12841 subject fiberglass boat manufacturing operation.
12842
- 12843 d) The owner or operator of a fiberglass boat manufacturing operation subject to
12844 Section 218.891 and complying under Section 218.891(c) must:
12845
- 12846 1) On and after May 1, 2012, collect and record the following information
12847 each month:
12848
- 12849 A) The amount of production resin, pigmented gel coat, clear gel coat,
12850 tooling resin, and tooling gel coat used in each subject fiberglass
12851 boat manufacturing operation;
12852
- 12853 B) The VOM content of each production resin, pigmented gel coat,
12854 clear gel coat, tooling resin, and tooling gel coat used in each
12855 subject fiberglass boat manufacturing operation; and
12856
- 12857 C) Total monthly VOM emissions for all subject fiberglass boat
12858 manufacturing operations; and
12859
- 12860 2) At the end of the first 12-month averaging period, and at the end of each
12861 subsequent month, collect and record the following information:
12862
- 12863 A) The monomer VOM mass emission limit for all subject fiberglass
12864 boat manufacturing operations for the applicable 12-month
12865 averaging period, with supporting calculations; and
12866
- 12867 B) The total actual emissions of VOM from all subject fiberglass boat
12868 manufacturing operations for the applicable 12-month averaging
12869 period.
12870
- 12871 e) The owner or operator of a fiberglass boat manufacturing operation subject to
12872 Section 218.891 and complying under Section 218.891(d) must:
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- 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of control device used to comply with the requirements of Section 218.891(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with Section 218.891(d); and
 - C) A declaration that the monitoring equipment required under Section 218.892 has been properly installed and calibrated according to manufacturer's specifications;
 - 2) Within 90 days after conducting testing under Section 218.892, submit to the Agency a copy of all test results and a certification that includes:
 - A) A declaration that all tests and calculations necessary to demonstrate whether the fiberglass boat manufacturing operation is in compliance with Section 218.891(d) have been properly performed;
 - B) A statement whether the fiberglass boat manufacturing operations are or are not in compliance with Section 218.891(d);
 - C) The emissions limitation applicable during the control device performance test, with supporting calculations; and
 - D) The operating parameters of the fiberglass boat manufacturing process during testing, as monitored in compliance with Section 218.892; and
 - 3) Collect and record daily the following information for each fiberglass boat manufacturing operation subject to Section 218.891(d), and submit that information to the Agency upon request:
 - A) Afterburner or other approved control device monitoring data in accordance with Section 218.892;
 - B) A log of operating time for the control device and monitoring equipment;

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- 12915
- 12916 C) A maintenance log for the control device and monitoring
- 12917 equipment detailing all routine and non-routine maintenance
- 12918 performed, including dates and duration of any outages; and
- 12919
- 12920 D) Information to substantiate that the fiberglass boat manufacturing
- 12921 operation is operating in compliance with the parameters
- 12922 determined under Section 218.892.
- 12923
- 12924 f) The owner or operator of a source subject to Section 218.891(f) must collect and
- 12925 record the following information for each fiberglass boat manufacturing
- 12926 operation:
- 12927
- 12928 1) The name and identification number of each material subject to Section
- 12929 218.891(f) as applied each day by each subject fiberglass boat
- 12930 manufacturing operation;
- 12931
- 12932 2) If subject to Section 218.891(f)(2), the amount of production and tooling
- 12933 resins, and pigmented, clear, and tooling gel coats used for part or mold
- 12934 repair and touch-ups, used each month at the subject source, and the total
- 12935 amount of all resins and gel coats used each month at the subject source;
- 12936
- 12937 3) If subject to Section 218.891(f)(3), the amount of pure 100% vinylester
- 12938 resins used for skin coats each month at the subject source, and the total
- 12939 amount of all resins used each month at the subject source.
- 12940
- 12941 g) The owner or operator of a source subject to Section 218.891 must collect and
- 12942 record the following information for each cleaning solution used in each
- 12943 fiberglass boat manufacturing operation:
- 12944
- 12945 1) For each cleaning solution for which the owner or operator relies on the
- 12946 VOM content to demonstrate compliance with Section 218.891(g) and that
- 12947 is prepared at the source with automatic equipment:
- 12948
- 12949 A) The name and identification of each cleaning solution;
- 12950
- 12951 B) The VOM content of each cleaning solvent in the cleaning
- 12952 solution, as determined in compliance with Section 218.892(d);
- 12953
- 12954 C) Each change to the setting of the automatic equipment, with date,
- 12955 time, description of changes in the cleaning solution constituents

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(e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

D) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;

E) The VOM content of the as-used cleaning solution, with supporting calculations; and

F) A calibration log for the automatic equipment, detailing periodic checks;

2) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.891(g), and that is not prepared at the source with automatic equipment:

A) The name and identification of each cleaning solution;

B) Date and time of preparation, and each subsequent modification, of the batch;

C) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.892(d);

D) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and

E) The VOM content of the as-used cleaning solution, with supporting calculations; and

3) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.891(g):

A) The name and identification of each cleaning solution;

B) Date and time of preparation, and each subsequent modification, of the batch;

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- 12995 C) The molecular weight, density, and VOM composite partial vapor
12996 pressure of each cleaning solvent, as determined in compliance
12997 with Section 218.892(f);
12998
12999 D) The total amount of each cleaning solvent, including water, used to
13000 prepare the as-used cleaning solution; and
13001
13002 E) The VOM composite partial vapor pressure of each as-used
13003 cleaning solution, as determined in compliance with Section
13004 218.110.
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13006 (Source: Amended at 50 Ill. Reg. _____, effective
13007 _____)
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SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section 218.900 Applicability

- 13011
13012
13013 a) Except under subsection (b), on and after May 1, 2012, this Subpart applies to
13014 miscellaneous industrial adhesive application operations at sources where the
13015 total actual VOM emissions from all such operations, including related cleaning
13016 activities, are at least 6.8 kg/day (15 lbs/day), calculated in compliance with
13017 Section 218.904(a)(1)(B), without air pollution control equipment.
13018
13019 b) Despite subsection (a):
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13021 1) This Subpart does not apply to miscellaneous industrial adhesive
13022 application operations associated with:
13023
13024 A) Aerospace coatings;
13025
13026 B) Metal furniture coatings;
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13028 C) Large appliance coatings;
13029
13030 D) Flat wood paneling coatings;
13031
13032 E) Paper, film, and foil coatings;
13033
13034 F) Lithographic printing;
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- 13036 G) Letterpress printing;
13037
13038 H) Flexible package printing;
13039
13040 I) Coil coating;
13041
13042 J) Fabric coating;
13043
13044 K) Rubber tire manufacturing.
13045
- 13046 2) Section 218.901(b) through (e) does not apply to the following:
13047
- 13048 A) Adhesives or adhesive primers being tested or evaluated in any
13049 research and development operation or quality assurance or
13050 analytical laboratory;
13051
- 13052 B) Adhesives or adhesive primers used in the assembly, repair, or
13053 manufacture of aerospace or undersea-based weapon systems;
13054
- 13055 C) Adhesives or adhesive primers used in medical equipment
13056 manufacturing operations;
13057
- 13058 D) Cyanoacrylate adhesive application operations;
13059
- 13060 E) Aerosol adhesive and aerosol adhesive primer application
13061 operations;
13062
- 13063 F) Operations using polyester bonding putties to assemble fiberglass
13064 parts at fiberglass boat manufacturing facilities and at other
13065 reinforced plastic composite manufacturing facilities;
13066
- 13067 G) Operations using adhesives and adhesive primers that are supplied
13068 to the manufacturer in containers with a net volume of 0.47 liters
13069 (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.
13070
- 13071 c) If a miscellaneous industrial adhesive application operation at a source is or
13072 becomes subject to at least one of the limitations in this Subpart, the
13073 miscellaneous industrial adhesive application operation is always subject to the
13074 applicable provisions of this Subpart.
13075

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- d) The owner or operator of a source exempt from the emission limitations and control requirements of this Subpart because of the criteria in subsection (a) is subject to the recordkeeping and reporting requirements in Section 218.904(a).

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.901 Emission Limitations and Control Requirements

- a) The owner or operator of a source subject to this Subpart must comply with the limitations in subsection (b), (c), or (d) and subsections (e) and (f). Despite this requirement, sources subject to Section 218.900(b)(2) must comply with the limitations in subsection (f) only.
- b) The owner or operator of adhesive application operations listed in this subsection (b) must comply with the following VOM emission limitations, ~~excluding~~ water and any compounds that are specifically exempted from the definition of VOM, as applied. If an adhesive is used to bond dissimilar substrates together, the substrate category with the highest VOM emission limitation applies:

	kg VOM/l adhesive or adhesive primer applied	lb VOM/gal adhesive or adhesive primer applied
1) General adhesive application operations		
A) Reinforced plastic composite	0.200	(1.7)
B) Flexible vinyl	0.250	(2.1)
C) Metal	0.030	(0.3)
D) Porous material (except wood)	0.120	(1.0)
E) Rubber	0.250	(2.1)
F) Wood	0.030	(0.3)
G) Other substrates	0.250	(2.1)

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2)	Specialty adhesive application operations		
A)	Ceramic tile installation	0.130	(1.1)
B)	Contact adhesive	0.250	(2.1)
C)	Cove base installation	0.150	(1.3)
D)	Indoor floor covering installation	0.150	(1.3)
E)	Outdoor floor covering installation	0.250	(2.1)
F)	Installation of perimeter bonded sheet flooring	0.660	(5.5)
G)	Metal to urethane/rubber molding or casting	0.850	(7.1)
H)	Motor vehicle adhesive	0.250	(2.1)
I)	Motor vehicle weatherstrip adhesive	0.750	(6.3)
J)	Multipurpose construction	0.200	(1.7)
K)	Plastic solvent welding (acrylonitrile butadiene styrene (ABS) welding)	0.400	(3.3)
L)	Plastic solvent welding (except ABS welding)	0.500	(4.2)
M)	Sheet rubber lining installation	0.850	(7.1)
N)	Single-ply roof membrane installation/repair (except ethylene propylene diene monomer (EPDM) roof membrane)	0.250	(2.1)
O)	Structural glazing	0.100	(0.8)
P)	Thin metal laminate	0.780	(6.5)

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Q)	Tire repair	0.100	(0.8)
R)	Waterproof resorcinol glue	0.170	(1.4)
3)	Adhesive primer application operations		
A)	Motor vehicle glass bonding primer	0.900	(7.5)
B)	Plastic solvent welding adhesive primer	0.650	(5.4)
C)	Single-ply roof membrane adhesive primer	0.250	(2.1)
D)	Other adhesive primer	0.250	(2.1)

- c) An owner or operator of a source subject to this Subpart must not operate a miscellaneous industrial adhesive application operation unless the ~~daily-weighted~~daily-weighted average VOM content of subject adhesives as applied each day by the operation, calculated in compliance with subsection (c)(1), is less than or equal to the emissions limitation calculated in compliance with subsection (c)(2).

1) Weighted Average of VOM Content of Adhesives Applied Each Day

$$VOM_{WA} = \frac{\sum_{i=1}^n V_i VOM_i}{\sum_{i=1}^n V_i}$$

where:

VOM_{WA} = The weighted average VOM content in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day;

i = Subscript denoting a specific adhesive as applied;

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n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

VOM_i = The VOM content in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied;

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2) Allowable Weighted Average VOM Limit for an Averaging Operation

$$Limit_{WA} = \frac{\sum_{i=1}^n V_i Limit_i}{\sum_{i=1}^n V_i}$$

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where:

Limit_{WA} = The allowable weighted average VOM limit in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day in a single operation;

i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

Limit_i = The VOM limit, taken from subsection (b), in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied.

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- d) An owner or operator of a source subject to this Subpart must not operate a miscellaneous industrial adhesive application operation employing a capture system and control device unless either:

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- 13125 1) An afterburner or carbon adsorption system is used that provides at least
13126 85% reduction in the overall emissions of VOM from the application
13127 operation;
13128
- 13129 2) An alternative capture and control system is used that provides at least
13130 85% reduction in the overall emissions of VOM from the application
13131 operation and is approved by the Agency and approved by USEPA as a
13132 SIP revision. The owner or operator must submit to the Agency a plan
13133 detailing appropriate monitoring devices, test methods, recordkeeping
13134 requirements, and operating parameters for the control device; or
13135
- 13136 3) The owner or operator complies with the applicable limitation in
13137 subsection (b) by using a combination of low-VOM adhesives and an
13138 afterburner or carbon adsorption system. The owner or operator may use
13139 an alternative capture and control system if the owner or operator submits
13140 to the Agency a plan detailing appropriate monitoring devices, test
13141 methods, recordkeeping requirements, and operating parameters for the
13142 capture and control system, and the system is approved by the Agency and
13143 approved by USEPA as a SIP revision.
13144
- 13145 e) The owner or operator of a source subject to this Subpart must apply all
13146 miscellaneous industrial adhesives using at least one of the following methods:
13147
- 13148 1) Electrostatic spray;
13149
- 13150 2) High volume low pressure (HVLP) spray;
13151
- 13152 3) Flow coating. For this Subpart, "flow coating" means a non-atomized
13153 technique of applying coating to a substrate with a fluid nozzle with no air
13154 supplied to the nozzle;
13155
- 13156 4) Roll coating or hand application, including non-spray application methods
13157 similar to hand or mechanically powered caulking gun, brush, or direct
13158 hand application;
13159
- 13160 5) Dip coating, including electrodeposition. For this Subpart,
13161 "electrodeposition" means a water-borne dip coating process in which
13162 opposite electrical charges are applied to the substrate and the coating.
13163 The coating is attracted to the substrate due to the electrochemical
13164 potential difference that is created;
13165

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- 13166 6) Airless spray;
13167
13168 7) Air-assisted airless spray; or
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13170 8) Another adhesive application method capable of achieving a transfer
13171 efficiency equal to or better than that achieved by HVLP spraying, if the
13172 method is approved in writing by the Agency.
13173
- 13174 f) The owner or operator of a source subject to this Subpart must comply with the
13175 following work practices for each subject miscellaneous adhesive application
13176 operation at the source:
13177
- 13178 1) Store all VOM-containing adhesives, adhesive primers, process-related
13179 waste materials, cleaning materials, and used shop towels in closed
13180 containers;
13181
- 13182 2) Ensure that mixing and storage containers used for VOM-containing
13183 adhesives, adhesive primers, process-related waste materials, and cleaning
13184 materials are kept closed at all times except when depositing or removing
13185 those materials;
13186
- 13187 3) Minimize spills of VOM-containing adhesives, adhesive primers,
13188 process-related waste materials, and cleaning materials;
13189
- 13190 4) Convey VOM-containing adhesives, adhesive primers, process-related
13191 waste materials, and cleaning materials from one location to another in
13192 closed containers or pipes; and
13193
- 13194 5) Minimize VOM emissions from the cleaning of application, storage,
13195 mixing, and conveying equipment by ensuring that equipment cleaning is
13196 performed without atomizing the cleaning solvent and all spent solvent is
13197 captured in closed containers.
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13199 (Source: Amended at 50 Ill. Reg. _____, effective
13200 _____)
13201

Section 218.902 Testing Requirements

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13203
- 13204 a) Testing to demonstrate compliance with this Subpart must be conducted by the
13205 owner or operator by May 1, 2012, after which testing must be conducted within
13206 90 days after a request by the Agency, or as otherwise provided in this Subpart.

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The testing must be conducted at the expense of the owner or operator, and the owner or operator must notify the Agency in writing 30 days before conducting the testing to allow the Agency to be present during testing.

- b) Testing to demonstrate compliance with the VOM content limitations in Section 218.901(b) must be conducted as follows:
- 1) Method 24, incorporated by reference in Section 218.112 must, be used for non-reactive adhesives. If it is demonstrated to the satisfaction of the Agency and the USEPA that plant adhesive formulation data are equivalent to Method 24 results, formulation data may be used. If there is any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern;
 - 2) 40 CFR 63, Subpart PPPP, Appendix A, incorporated by reference in Section 218.112, must be used for reactive adhesives.
 - 3) The manufacturer's specifications for VOM content for adhesives may be used if the specifications are based on results of tests of the VOM content conducted in compliance with methods in subsections (b)(1) and (b)(2), as applicable.
- c) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) must be used for testing to demonstrate compliance with Section 218.901(d), as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference in Section 218.112;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60.Appendix A-1, incorporated by reference in Section 218.112;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR 60.Appendix A-7, incorporated by reference in Section 218.112. For thermal and catalytic afterburners, Method 25 must be used, except under the following circumstances, in which case Method 25A must be used:

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- 13247 A) The allowable outlet concentration of VOM from the emissions
13248 control system is less than 50 ppmv, as carbon;
13249
- 13250 B) The VOM concentration at the inlet of the emissions control
13251 system and the required level of control result in exhaust
13252 concentrations of VOM of 50 ppmv or less, as carbon;
13253
- 13254 C) Due to the high efficiency of the emissions control system, the
13255 anticipated VOM concentration at the emissions control system
13256 exhaust is 50 ppmv or less, as carbon, regardless of inlet
13257 concentration. If the source elects to use Method 25A under this
13258 option, the exhaust VOM concentration must be 50 ppmv or less,
13259 as carbon, and the required destruction efficiency must be met for
13260 the source to have demonstrated compliance. If the Method 25A
13261 test results show that the required destruction efficiency apparently
13262 has been met, but the exhaust concentration is above 50 ppmv, as
13263 carbon, a retest is required. The retest must be conducted using
13264 either Method 25 or 25A. If the retest is conducted using Method
13265 25A and the test results again show that the required destruction
13266 efficiency apparently has been met, but the exhaust concentration
13267 is above 50 ppmv, as carbon, the source must retest using Method
13268 25;
13269
- 13270 D) During testing, the cleaning equipment must be operated at
13271 representative operating conditions and flow rates.
13272
- 13273 d) An owner or operator using an emissions control system other than an afterburner
13274 or carbon adsorber must conduct testing to demonstrate compliance with Section
13275 218.901(d) in the owner's or operator's plan approved by the Agency and USEPA
13276 under Section 218.901(d)(3).
13277

13278 (Source: Amended at 50 Ill. Reg. _____, effective
13279 _____)
13280

13281 **Section 218.903 Monitoring Requirements**
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- 13283 a) If an afterburner is used to demonstrate compliance, the owner or operator of a
13284 source subject to Section 218.901(d) must:
13285
- 13286 1) Install, calibrate, operate, and maintain temperature monitoring devices
13287 with an accuracy of 3 ~~°C~~ °C or 5 °F on the emissions control system in

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compliance with Section 218.105(d)(2) and in compliance with the manufacturer's specifications. Monitoring must be performed at all times when the emissions control system is operating; and

- 2) Install, calibrate, operate, and maintain in compliance with manufacturer's specifications a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- b) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) must use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment must monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
- c) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) must install, maintain, calibrate, and operate the monitoring equipment under the owner's or operator's plan approved by the Agency and USEPA under Section 218.901(d)(3).

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.904 Recordkeeping and Reporting Requirements

- a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) must comply with the following:
 - 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from this Section because of the criteria in Section 218.900(a);
 - B) Calculations that demonstrate that combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, never equal or exceed 6.8 kg/day (15 lbs/day) without air pollution control

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equipment. To calculate daily emissions of VOM, the owner or operator must determine the monthly emissions of VOM from miscellaneous industrial adhesive application operations at the source (including related cleaning activities) and divide this amount by the number of days during that calendar month that miscellaneous industrial adhesive application operations at the source were in operation;

- 2) Collect and record the following information each month for each miscellaneous industrial adhesive application operation, maintain the information at the source for three years, and provide the information to the Agency upon request:
 - A) The name and identification number of each adhesive as applied by each miscellaneous industrial adhesive application operation; and
 - B) The weight of VOM per volume and the volume of each adhesive (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each month by each miscellaneous industrial adhesive application operation;
 - 3) Notify the Agency of any record that shows that the combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day) without air pollution control equipment, within 30 days after the event occurs, and provide copies of those records upon request by the Agency.
- b) All sources subject to this Subpart must:
- 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - A) Identification of each subject adhesive application operation as of the date of certification;
 - B) A declaration that all subject adhesive application operations are in compliance with this Subpart;
 - C) The limitation with which each subject adhesive application operation will comply (i.e., the VOM content limitation, the daily

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weighted averaging alternative, or the emissions control system alternative);

- D) Initial documentation that each subject adhesive application operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
- E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
- F) A description of the practices and procedures that the source will follow to ensure compliance with Section 218.901(f);
- G) A description of each adhesive application operation exempt under Section 218.900(b)(2), if any; and
- H) The application methods used by each subject adhesive application operation;
- 2) At least 30 calendar days before changing the method of compliance under Section 218.901(b), (c), and (d), notify the Agency in writing of the change. The notification must include a demonstration of compliance with the newly applicable subsection;
- 3) Notify the Agency in writing of any violation of this Subpart within 30 days after the violation and provide records documenting the violation upon request by the Agency;
- 4) Retain all records required by this Section for at least three years and make those records available to the Agency upon request.
- c) The owner or operator of an adhesive application operation subject to Section 218.901 and complying under Section 218.901(b) must comply with the following:
- 1) By May 1, 2012, or upon the initial start-up date, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;

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- 13411 2) Collect and record the name, identification number, and VOM content of
13412 each adhesive as applied each day by each adhesive application operation
13413 complying with Section 218.901(b).
13414
- 13415 d) The owner or operator of an adhesive application operation subject to Section
13416 218.901 and complying by means of Section 218.901(c) must comply with the
13417 following:
13418
- 13419 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a
13420 certification to the Agency that includes the name, identification number,
13421 and VOM content of each adhesive as applied by each subject adhesive
13422 application operation;
13423
- 13424 2) Collect and record the following information each day for each adhesive
13425 application operation complying by means of Section 218.901(c):
13426
- 13427 A) The name, identification number, VOM content, and volume of
13428 each adhesive as applied each day by each subject adhesive
13429 application operation;
13430
- 13431 B) The daily weighted average VOM content of all adhesives as
13432 applied by each subject adhesive application operation.
13433
- 13434 e) The owner or operator of an adhesive application operation subject to Section
13435 218.901 and complying under Section 218.901(d) must:
13436
- 13437 1) By May 1, 2012, or upon the initial start-up date, whichever is later, and
13438 upon initial start-up of a new control device, submit a certification to the
13439 Agency that includes the following:
13440
- 13441 A) The type of afterburner or other approved control device used to
13442 comply with Section 218.901(d);
13443
- 13444 B) The results of all tests and calculations necessary to demonstrate
13445 compliance with the control requirements of Section 218.901(d);
13446 and
13447
- 13448 C) A declaration that the monitoring equipment required under
13449 Section 218.903 has been properly installed and calibrated
13450 according to manufacturer's specifications;
13451

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- 2) Within 90 days after conducting testing under Section 218.902, submit to the Agency a copy of all test results and a certification that includes:
- A) A declaration that all tests and calculations necessary to demonstrate whether the adhesive application operations are in compliance with Section 218.901(d) have been properly performed;
 - B) A statement whether the adhesive application operations are or are not in compliance with Section 218.901(d); and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in compliance with Section 218.903;
- 3) Collect and record daily the following information for each adhesive application operation subject to Section 218.901(d):
- A) Afterburner or other approved control device monitoring data in compliance with Section 218.903;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated application unit; and
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

**SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING
PROCESSES**

Section 218.920 Applicability

- a) Maximum theoretical emissions
- 1) A source is subject to this Subpart if it contains process emission units not

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regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB, which as a group both:

- A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) per calendar year of VOM; and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without air pollution control equipment, through production or capacity limitations in a federally enforceable permit or a SIP revision.
- 2) If a source is subject to this Subpart under subsection (a)(1), this Subpart applies to a source's miscellaneous fabricated product manufacturing process emission units which are not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB.
- b) Potential to emit:
- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) of VOM per year, in aggregate, from emission units that are:
 - A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvents operations.
 - 2) If a source is subject to this Subpart under subsection (b)(1), this Subpart applies to a source's miscellaneous fabricated product manufacturing process emission units which are:
 - A) Not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD; or
 - B) Not included in any of the following categories: synthetic organic

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chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvents operations.

- c) If a source ceases to fulfill the criteria of subsections (a) or (b) or both, this Subpart continues to apply to a miscellaneous fabricated products manufacturing process emission unit which was subject to the control requirements of Section 218.926.
- d) Limits under this Subpart do not apply to emission units with emissions of VOM to the atmosphere of 0.91 Mg (1.0 ton) or less per calendar year if the total emissions from the emission units not complying with Section 218.926 do not exceed 4.5 Mg (5.0 tons) per calendar year; however, this provision does not apply to an emission unit which is a leather coating line or operation at a source where the criteria of Section 218.920(a) are not met.
- e) For this Subpart, an emission unit is considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For this Subpart, VOM emissions without air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart PP do not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

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(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.926 Control Requirements

Every owner or operator of miscellaneous fabricated product manufacturing process emission unit subject to this Subpart must comply with subsection (a), (b), or (c):

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least 81% from each emission unit.

(BOARD NOTE: For this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)
- b) For coating lines:
 - 1) The daily-weighted average VOM content must not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating as applied (excluding water and any compounds which are specifically exempted from the definition of VOM) during any day. Owners and operators complying with this limitation are not required to comply with Section 218.301.
 - 2) For applying coatings to leather at a source where the criteria of Section 218.290(a) are not met:
 - A) For applying stain coating to leather, other than specialty leather, either:
 - i) The VOM contained in stain coatings, other than stain coatings applied to specialty leather, as applied at the source in any consecutive 12-month period must not exceed 10 tons; or
 - ii) The application of stain coatings must comply with Section 218.926(b)(2)(C).
 - B) For applying coatings to specialty leather, the total VOM content of all coatings, including stains, as applied to a category of

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specialty leather, must not exceed 38 lbs per 1,000 square feet of the specialty leather produced, determined on a monthly basis:

$$C = E/A$$

Where:

~~C= The VOM contained in all coatings applied to a category of specialty leather in units of lbs/square feet;~~

C = The VOM contained in all coatings applied to a category of specialty leather in units of lbs/square feet;

E = The total VOM content of all coatings applied to the category of specialty leather during each month in units of lbs determined as the sum of the VOM content of each coating applied during the month to such leather;

A = The total area of the category of specialty leather produced in the month in units of square feet, determined as the sum of the area of each type of leather item produced during the month based on the number of the items produced and the area of the item, measured or established in compliance with procedures in a federally enforceable permit.

~~E= The total VOM content of all coatings applied to the category of specialty leather during each month in units of lbs, determined as the sum of the VOM content of each coating applied during the month to such leather;~~

~~A= The total area of the category of specialty leather produced in the month in units of square feet, determined as the sum of the area of each type of leather item produced during the month based on the number of the items produced and the area of the item, measured or established in compliance with procedures in a federally enforceable permit.~~

C) For applying coatings to leather, except for coatings complying under Section 218.926(b)(2)(A) or (B), either:

- i) The VOM content of each coating must not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating as applied (excluding water and any compounds which are specifically exempted

Weinert, Beate [BW61] May 4, 2026
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from the definition of VOM). Owners and operators complying with this limitation are not subject to Section 218.301; or

- ii) The daily-weighted average VOM content must not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating as applied under Section 218.916(b)(1).

- c) An equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.927 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart must comply with those requirements on and after an applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.928 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 281.926, the owner or operator of a VOM emission unit subject to this Subpart must, at its own expense, conduct the tests in compliance with the applicable test methods and procedures in Section 218.105.
- b) Nothing in this Section limits the authority of USEPA under the CAA, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.929 Cementable and Dress or Performance Shoe Leathers

- a) This Section applies to a leather manufacturing facility located at 2015 North Elston Avenue, Chicago. The VOM emission limits in this Section apply only to the following types of select grade of chrome tanned, bark/polymer retanned specialty leathers:

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- 1) "Cementable shoe leather" is leather which is:
- A) Hot stuffed without the presence of water, fat liquored, or wet stuffed by direct contact with wax, grease, polymers, and oils in liquefied form at elevated temperatures. The content of wax, grease, polymers, and oils embedded into the leather must be over 12% but less than 25% by weight, measured on a dry weight basis. Applicable leathers must be determined using the equation below:
- $$12\% < P < 25\%$$
- Where:
- $$P = \frac{W}{L} \times 100$$
- P = percent content of wax, grease, polymer, and oils
- W = weight of wax, grease, polymers, and oils in pounds added to the leather
- L = dry weight of the leather in pounds before addition of wax, greases, polymers, and oils;
- B) Finished with coating materials which adhere to the leather surface that feels oily; and
- C) Used primarily to manufacture shoes and cannot meet the definition for specialty leather under 35 Ill. Adm. Code Section 211.6170.
- 2) "Dress or performance shoe leather" is leather which is:
- A) Finished with coating materials containing water-emulsified materials using water-miscible solvent materials to protect the leather and pigmented coating; and
- B) Used primarily ~~to manufacture~~to manufacture sewn shoes where the leather must be capable of soaking with a fine, dressy finish that cannot meet the lbs per gallon VOM limitations in Section

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218.926 and cannot meet the definition for specialty leather under 35 Ill. Adm. Code 211.6170.

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- 3) This Section does not apply to the production of specialty leathers that meet the definition of specialty leathers under 35 Ill. Adm. Code 211.6170 or to the production of leathers that can meet the control requirements of Section 218.926.
 - 4) The 10-ton exemption for stain under Section 218.926(b)(2)(i) does not apply to leathers produced under the requirements of this Section.
 - b) The production of specialty leather as defined in subsection (a) is subject to the following limitations:
 - 1) For both water-resistant and non-water-resistant leathers, the leather will be designated as water-resistant or non-water-resistant in the shipping room by using ASTM D2099-14 (2023), incorporated by reference in Section 218.112.
 - 2) For non-water-resistant leathers, the total VOM emissions must not exceed 14.0 lbs VOM/1,000 square feet of leather produced on a 12-month rolling average basis.
 - 3) For water resistant leathers, the total VOM emissions must not exceed 24.0 lbs VOM/1,000 square feet of leather produced on a 12-month rolling average basis.
 - 4) The total emissions of VOM from leathers produced under the emission limits in this Section must not exceed 20 tons per year.
 - c) The owner or operator must comply with its approved standard operating and maintenance procedures (SOMP). The SOMP must contain the following elements:
 - 1) A procedure to minimize the volatilization of solvents during the measuring of coating proportions or mixing of coatings or both.
 - 2) A procedure to minimize VOM fugitive losses from the coating and solvent storage rooms. Procedures should include methods of securely sealing containers and methods to clean up accidental spills.

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- 13764 3) A procedure to minimize solvent usage or VOM losses during equipment
13765 cleanup and during transport (including the transferring of coatings from
13766 the mixing areas to the coating lines).
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- 13768 d) The owner or operator must perform the reporting and recordkeeping under
13769 Section 218.929 and Section 39.5 of the Act (415 ILCS 5/39.5), and must include
13770 at a minimum the following:
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- 13772 1) The VOM content and gallons of each coating and the total pounds of
13773 VOM of all coatings applied to each category of leather, e.g., cementable
13774 non-water-resistant, dress water-resistant, by batch during each month;
13775 and
13776
- 13777 2) The total area of each category of leather produced during the month
13778 based on the number of items produced and the area of the items,
13779 measured or established in compliance with procedures in a federally
13780 enforceable permit.
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- 13782 3) Despite the requirements of subsections (d)(1) and (d)(2), the owner or
13783 operator may comply with an equivalent alternative plan for reporting and
13784 recordkeeping that has been approved by the Agency and USEPA in a
13785 federally enforceable permit or as a SIP revision.
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13787 (Source: Amended at 50 Ill. Reg. _____, effective
13788 _____)
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13790 SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES
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13792 **Section 218.940 Applicability**
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- 13794 a) Maximum theoretical emissions:
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- 13796 1) A source is subject to this Subpart if it contains process emission units not
13797 regulated by Subparts B, E, F (excluding Section 218.204(l)), H
13798 (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V,
13799 X, Y, Z, or BB of this Part, which as a group both:
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- 13801
- 13802 A) Have maximum theoretical emissions of at least 90.7 Mg (100
13803 tons) per calendar year of VOM; and
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B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without air pollution control equipment, through production or capacity limitations in a federally enforceable permit or a SIP or FIP revision.

2) If a source is subject to this Subpart under subsection (a)(1), this Subpart applies to a source's miscellaneous formulation manufacturing process emission units which are not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB of this Part.

b) Potential to emit

1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) of VOM per year, in aggregate, from emission units that are:

A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or

B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvents operations.

2) If a source is subject to this Subpart under subsection (b)(1), this Subpart applies to a source's miscellaneous formulation manufacturing process emission units which are:

A) Not included within any of the categories in Subparts B, E, F, H, Q, R, T, V, X, Y, Z, AA, BB, CC, or DD; or

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- 13847 B) Not included in any of the following categories: synthetic organic
- 13848 chemical manufacturing industry (SOCMI) distillation, SOCMI
- 13849 reactors, wood furniture, plastic parts coating (business machines),
- 13850 plastic parts coating (other), offset lithography, industrial
- 13851 wastewater, autobody refinishing, SOCMI batch processing, VOL
- 13852 storage tanks, and clean-up solvents operations.
- 13853
- 13854
- 13855 c) If a source ceases to fulfill the criteria of subsections (a) or (b) or both, this
- 13856 Subpart continues to apply to a miscellaneous formulation manufacturing process
- 13857 emission unit which was subject to the control requirements of Section 218.946.
- 13858
- 13859
- 13860 d) Limits under this Subpart do not apply to emission units with emissions of VOM
- 13861 to the atmosphere of 2.3 Mg (2.5 tons) or less per calendar year if the total
- 13862 emissions from the emission units not complying with this Section do not exceed
- 13863 4.5 Mg (5.0 tons) per calendar year.
- 13864
- 13865
- 13866 e) For this Subpart, an emission unit is considered regulated by a Subpart if it is
- 13867 subject to the limits of that Subpart. An emission unit is considered not regulated
- 13868 by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit
- 13869 is covered by an exemption in the Subpart or the applicability criteria of the
- 13870 Subpart are not met.
- 13871
- 13872
- 13873 f) For this Subpart, VOM emissions without air pollution control equipment are the
- 13874 emissions of VOM which would result if no air pollution control equipment were
- 13875 used.
- 13876
- 13877
- 13878 g) The control requirements in Subpart QQ do not apply to sewage treatment plants;
- 13879 vegetable oil extraction and processing; coke ovens (including by-product
- 13880 recovery plants); fuel combustion units; bakeries; barge loading facilities; jet
- 13881 engine test cells; production of polystyrene foam insulation board, including
- 13882 storage and extrusion of scrap where blowing agent is added to the polystyrene
- 13883 resin at the source, but not including blending and preliminary expansion of resin
- 13884 before molding where blowing agent is incorporated into the polystyrene resin by
- 13885 the producer of the resin; production of polystyrene foam packaging, but not
- 13886 including blending and preliminary expansion of resin before molding where

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blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

- h) The control requirements of this Subpart do not apply to the solvation mixers at the container sealant manufacturing facility located at 6050 West 51st Street in Chicago.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.946 Control Requirements

Every owner or operator of a miscellaneous formulation manufacturing process emission unit subject to this Subpart must comply with subsection (a) or (b).

- ~~a)~~ a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least 81% from each emission unit.

(BOARD NOTE: For this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.947 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart must comply with those requirements on and after an applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.948 Testing

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- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.946, the owner or operator of a VOM emission unit subject to this Subpart must, at its own expense, conduct the tests in compliance with the applicable test methods and procedures in Section 218.105.
- b) Nothing in this Section limits the authority of USEPA under the CAA, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

**SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING
PROCESSES**

Section 218.960 Applicability

- a) Maximum theoretical emissions:
- 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) per calendar year of VOM, and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without air pollution control equipment through production or capacity limitations in a federally enforceable permit or a SIP revision.
 - 2) If a source is subject to this Subpart under subsection (a)(1), this Subpart applies to a source's miscellaneous organic chemical manufacturing process emission units which are not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB.
- b) Potential to emit
- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) of VOM per year, in aggregate, from emission units, other than VOM leaks from components, that are:

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- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or
- B) Not included in one of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvents operations.
- 2) If a source is subject to this Subpart under subsection (b)(1), this Subpart applies to a source's miscellaneous organic chemical manufacturing process emission units which are:
- A) Not included within the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) or (b) or both, this Subpart continues to apply to a miscellaneous organic chemical manufacturing process emission unit which was subject to the control requirements of Section 218.966.
- d) Limits under this Subpart do not apply to emission units with emissions of VOM to the atmosphere of 0.91 Mg (1.0 ton) or less per calendar year if the total emissions from the emission units not complying with Section 218.966 do not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For this Subpart, an emission unit is considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

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- f) For this Subpart, VOM emissions without air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart RR do not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.966 Control Requirements

Every owner or operator of a miscellaneous organic chemical manufacturing process emission unit subject to this Subpart must comply with subsection (a), (b), or (c).

- ~~a)~~ a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least 81% from each emission unit.

(BOARD NOTE: For this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.
- c) Any leaks from components subject to the control requirements of this Subpart must be subject to the following control measures by March 15, 1995:
- 1) Repair any component from which a leak of VOL can be observed. The

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repair must be completed as soon as practicable but within 15 days after the leak is found, unless the leaking component cannot be repaired until the process unit is shut down, in which case the leaking component must be repaired before the unit is restarted.

- 2) For any leak which cannot be readily repaired within one hour after detection, the following records must be kept. These records must be maintained by the owner or operator for at least two years after the date on which they are made. Copies of the records must be made available to the Agency or USEPA upon verbal or written request.

- A) The name and identification of the leaking component;
- B) The date and time the leak is detected;
- C) The action taken to repair the leak; and
- D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.967 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart must comply with this Subpart on and after an applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.968 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.966, the owner or operator of a VOM emission unit subject to this Subpart must, at its own expense, conduct the tests in compliance with the applicable test methods and procedures in Section 218.105.
- b) Nothing in this Section limits the authority of USEPA under the CAA, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective
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SUBPART TT: OTHER EMISSION UNITS

Section 218.980 Applicability

- a) Maximum theoretical emissions
- 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB, which as a group both:
- A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) per calendar year of VOM; and
- B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without air pollution control equipment, through production or capacity limitations in a federally enforceable permit or a SIP revision.
- 2) If a source is subject to this Subpart as provided in this Subpart, this Subpart applies to a source's VOM emission units which are not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, PP, QQ, or RR or which are not exempt from permitting requirements under 35 Ill. Adm. Code 201.146.
- b) Potential to emit
- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) of VOM per year, in aggregate, from emission units, other than furnaces at glass container manufacturing sources and VOM leaks from components, that are:
- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial

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wastewater, autobody refinishing, SOCMi batch processing, VOL storage tanks, and clean-up solvents operations.

- 2) If a source is subject to this Subpart as provided under subsection (b)(1), this Subpart applies to a source's VOM emission units which are:
- A) Not included within any of the categories in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, DD, PP, QQ, or RR, or which are not exempt from permitting requirements under 35 Ill. Adm. Code 201.146 (excluding Section 201.146(o) and (p)); or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMi reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMi batch processing, VOL storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) or (b) or both, this Subpart continues to apply to an emission unit which was ever subject to the control requirements of Section 219.986.
- d) Limits under this Subpart do not apply to emission units with emissions of VOM to the atmosphere of 2.3 Mg (2.5 tons) or less per calendar year if the total emissions from the emission units not complying with Section 219.986 do not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For this Subpart, an emission unit is considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) The control requirements in Subpart TT do not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene or polyethylene foam

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packaging, but not including blending and preliminary expansion of resin before molding where blowing agent is incorporated into the polystyrene or polyethylene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene or polyethylene resin at the source; iron and steel production; and furnaces at glass container manufacturing sources.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.986 Control Requirements

Every owner or operator of an emission unit subject to this Subpart must comply with subsection (a), (b), (c), (d), or (e).

- ~~a)~~ a) Emission capture and control equipment which achieves an overall reduction in uncontrolled VOM emissions of at least 81% from each emission unit.

(BOARD NOTE: For this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) For coating lines, the daily-weighted average VOM content must not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied during any day. Owners and operators complying with this Section are not required to comply with Section 218.301.
- c) An equivalent alternative control plan which has been approved by the Agency and USEPA in federally enforceable permit or as a SIP revision.
- d) Non-contact process water cooling towers which are subject to the control requirements of this Subpart must comply with the following control measures by March 15, 1995, or upon initial start-up:
- 1) The owner or operator of a non-contact process water cooling tower must perform the following actions to control emissions of VOM from the tower:

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- 14215 A) Inspect and monitor the tower to identify leaks of VOM into the
14216 water under subsection (d)(3);
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- 14218 B) When a leak is identified, initiate and carry out steps to identify the
14219 specific leaking component or components as soon as practicable
14220 under subsection (d)(4).
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- 14222 C) When a leaking component is identified which:
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- 14224 i) Can be removed from service without disrupting
14225 production, remove the component from service;
14226
- 14227 ii) Cannot be removed from service without disrupting
14228 production, undertake repair of the component under
14229 subsection (d)(4) at the next reasonable opportunity to do
14230 so, including any period when the component is out of
14231 service for scheduled ~~maintenance~~maintenance 4; and
14232
- 14233 D) Maintain records of inspection and monitoring activities,
14234 identification of leaks and leaking components, elimination and
14235 repair of leaks, and operation of equipment as related to these
14236 activities under subsection (d)(5).
14237
- 14238 2) A VOM leak must be considered to exist in a non-contact process water
14239 cooling water system if the VOM emissions or VOM content exceed
14240 background levels as determined by monitoring conducted in compliance
14241 with subsection (d)(3)(A).
14242
- 14243 3) The owner or operator of a non-contact process water cooling tower must
14244 carry out an inspection and monitoring program to identify VOM leaks in
14245 the cooling water system.
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- 14247 A) The owner or operator of a non-contact process water cooling
14248 tower must submit to the Agency a proposed monitoring program
14249 accompanied by technical justification for the program, including
14250 justification for the sampling location(s), parameter(s) selected for
14251 measurement, monitoring and inspection frequency, and the
14252 criteria used relative to the monitored parameters to determine
14253 whether a leak exists as specified in subsection (d)(2).
14254
- 14255 B) This inspection and monitoring program for non-contact process

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water cooling towers must include:

- i) Monitoring each tower with a water flow rate of 25,000 gallons per minute or more at a petroleum refinery at least weekly, and monitoring other towers at least monthly;
 - ii) Inspection of each tower at least weekly if monitoring is not performed at least weekly.
- C) This inspection and monitoring program must be carried out in compliance with written procedures which the Agency must specify as a condition in a federally enforceable operating permit. These procedures must include the VOM background levels for the cooling tower as established by the owner or operator through monitoring; describe the locations at which samples will be taken; identify the parameter(s) to be measured, the frequency of measurements, and the procedures for monitoring each such tower, including taking samples and other subsequent handling and analyzing of samples; provide the criteria used to determine that a leak exists under subsection (d)(2); and describe the records which will be maintained.
- D) A non-contact process water cooling tower is exempt from subsections (d)(3)(B) and (d)(3)(C) if all equipment where leaks of VOM into cooling water may occur is operated at a pressure in the cooling water at least 35 kPa greater than the maximum pressure in the process fluid.
- 4) The repair of a leak in a non-contact process water cooling tower is considered to be completed in an acceptable manner as follows:
- A) Efforts to identify and locate the leaking components are initiated as soon as practicable, but within three days after detecting the leak in the cooling water tower;
 - B) Leaking components must be repaired or removed from service as soon as possible, but within 30 days after detecting the leak in the cooling water tower, unless the leaking components cannot be repaired until the next scheduled shutdown for maintenance.
- 5) The owner or operator of a non-contact process water cooling tower must

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keep records under this subsection. These records must be retained at a readily accessible location at the source and must be available for inspection and copying by the Agency for at least three years:

- A) Records of inspection and monitoring activity;
 - B) Records of each leak identified in a tower, with date, time, and nature of observation or measured level of parameter;
 - C) Records of activity to identify leaking components, with date initiated, summary of components inspected with dates, and method of inspection and observations;
 - D) Records of activity to remove a leaking component from service or repair a leaking component, with date initiated and completed, description of actions taken, and the basis to determine the leak in the tower has been eliminated. If the leaking component is not identified, repaired, or eliminated within 30 days after initially identifying a leak in the tower, this report must include specific reasons why the leak could not be eliminated sooner, including all other intervening periods when the process unit was out of service, actions taken to minimize VOM losses before eliminating the leak, and any actions taken to prevent the recurrence of this type of leak.
- 6) The owner or operator of a non-contact process water cooling tower must submit to the Agency an annual report which provides:
- A) The number of leaks identified in each cooling tower;
 - B) A general description of activity to repair or eliminate leaks which were identified;
 - C) Identification of each leak which was not repaired within 30 days after the date of identifying a leak in the tower, with description of the leaks and explanation why the leak was not repaired within 30 days; and
 - D) Identification of any periods when required inspection and monitoring activities were not carried out.
- e) Any leaks from components subject to the control requirements of this Subpart

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must be subject to the following control measures by March 15, 1995:

- 1) Repair any component from which a leak of VOL can be observed. The repair must be completed as soon as practicable but within 15 days after the leak is found, unless the leaking component cannot be repaired until the next process unit shutdown, in which case the leaking component must be repaired before the unit is restarted.
- 2) For any leak which cannot be readily repaired within one hour after detection, the following records must be kept. These records must be maintained by the owner or operator for at least two years after the date on which they are made. Copies of the records must be made available to the Agency or USEPA upon verbal or written request.
 - A) The name and identification of the leaking component;
 - B) The date and time the leak is detected;
 - C) The action taken to repair the leak; and
 - D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.987 Compliance Schedule

Every owner or operator of an emissions unit which is subject to this Subpart must comply with this Subpart on and after an ~~applicable date~~ applicable date under Section 218.106.

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Section 218.988 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.986, the owner or operator of a VOM emission unit subject to this Subpart must, at its own expense, conduct the tests in compliance with the applicable test methods and procedures in Section 218.105.
- b) Nothing in this Section limits the authority of USEPA under the CAA, as

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amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

SUBPART UU: RECORDKEEPING AND REPORTING

Section 218.990 Exempt Emission Units

Upon request by the Agency, the owner or operator of an emission unit which is exempt from Subparts PP, QQ, RR, TT, or Section 218.208(b) must submit records to the Agency within 30 calendar days after the date of the request that document that the emission unit is exempt from those requirements.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

Section 218.991 Subject Emission Units

- a) Any owner or operator of a VOM emission unit which is subject to Subpart PP, QQ, RR, or TT and complying through emission capture and control equipment must comply with the following:
- 1) By an applicable date under Section 218.106, or upon initial start-up of a new emission unit, the owner or operator of the subject VOM emission unit must demonstrate to the Agency that the subject emission unit will be in compliance on and after an applicable date under Section 218.106 or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.
 - 2) On and after an applicable date under Section ~~218.106~~part 218.106 part of any or on and after the initial start-up date, the owner or operator of a subject VOM source must collect and record all of the following information each day and maintain the information at the source for three years:
 - A) Control device monitoring data.
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated emission source.

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- 14420
- 14421 C) A maintenance log for the capture system, control device, and
- 14422 monitoring equipment detailing all routine and non-routine
- 14423 maintenance performed, including dates and duration of any
- 14424 outages.
- 14425
- 14426 3) On and after an applicable date under Section 218.106, the owner or
- 14427 operator of a subject VOM emission source must notify the Agency:
- 14428
- 14429 A) Of any violation of Subpart PP, QQ, RR, or TT by sending a copy
- 14430 of any record showing a violation to the Agency within 30 days
- 14431 after the violation;
- 14432
- 14433 B) At least 30 calendar days before changing the method of
- 14434 compliance with Subpart PP or TT from using capture systems and
- 14435 control devices to using compliant coatings, the owner or operator
- 14436 must comply with all requirements of subsection (b)(1). After
- 14437 changing the method of compliance with Subpart PP or TT from
- 14438 using capture systems and control devices to using compliant
- 14439 coatings, the owner or operator must comply with all requirements
- 14440 of subsection (b).
- 14441
- 14442 4) Testing.
- 14443
- 14444 A) When in the opinion of the Agency it is necessary to conduct
- 14445 testing to demonstrate compliance with this Subpart, the owner or
- 14446 operator of a VOM emission source subject to this Subpart must at
- 14447 its own expense, conduct the tests in compliance with the
- 14448 applicable test methods and procedures in Section 218.105.
- 14449
- 14450 B) Nothing in this Section limits the authority of USEPA under the
- 14451 CAA, as amended, to require testing.
- 14452
- 14453 b) Any owner or operator of a coating line which is subject to Subpart PP or TT and
- 14454 complying through the daily-weighted average VOM content limitation must
- 14455 comply with the following:
- 14456
- 14457 1) By an applicable date under Section 218.106 or upon initial start-up of a
- 14458 coating line subject to Subpart PP or TT, the owner or operator of the
- 14459 subject coating line must certify to the Agency that the coating line will be
- 14460 in compliance on and after an applicable date under Section 218.106 or on

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and after the initial start-up date. The certification must include:

- A) The name and identification number of each coating line which will comply through the daily-weighted average VOM content limitation;
 - B) The name and identification number of each coating as applied on each coating line;
 - C) The weight of VOM per volume and the volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line;
 - D) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line;
 - E) The method by which the owner or operator will create and maintain records each day as required in subsection (b)(2); and
 - F) An example of the format in which the records required in subsection (b)(2) will be kept.
- 2) On and after an applicable date under Section 218.106 or on and after the initial start-up date, the owner or operator of a subject coating line must collect and record all of the following information each day for each coating line and maintain the information at the source for three years:
- A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume and the volume of each coating (excluding water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; and
 - C) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104.
- 3) On and after an applicable date under Section 218.106, the owner or

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operator of a subject coating line must notify the Agency:

- A) Of a violation of Subpart PP or TT by sending a copy of any record showing a violation to the Agency within 30 days after the violation.
- B) At least 30 calendar days before changing the method of compliance with Subpart PP or TT from using compliant coatings to using capture systems and control devices, the owner or operator must comply with subsection (a)(1). After changing the method of compliance with Subpart PP or TT from using compliant coatings to using capture systems and control devices, the owner or operator must comply with subsection (a).
- c) Any owner or operator of a VOM source which is subject to Subpart PP, QQ, RR, or TT and complying through an equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision must comply with the recordkeeping and reporting requirements in the alternative control plan.
- d) Any owner or operator of a leather coating operation, i.e., the group of all coating lines at a source engaged applying stain to leather other than specialty leather; the group of all coating lines at a source engaged in applying coatings, including stain, to a category of specialty leather; or the group of all coating lines at a source engaged applying coatings to leather complying through the VOM content of each gallon of coating as applied, which is subject to Subpart PP, and complying under Section 218.926(b)(2)(A), (B), or (C)(i), respectively, must comply with the following:
- 1) By an applicable date under Section 218.106, or upon initial start-up of a leather coating operation which is complying under Section 218.926(b)(2)(A), (B) or (C)(i), the owner or operator of the subject leather coating operation must certify to the Agency that the leather coating operation will be in compliance on and after an applicable date under Section 218.106, or on and after the initial start-up date. The certification must include:
- A) A description of the leather coating operation, including identification of the applicable requirement with which it will comply, i.e., Section 218.926(b)(2)(A), (B), or (C)(i);

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- 14543 B) A description of the types of leather produced and a demonstration
14544 that all leather produced qualifies as specialty leather and is in a
14545 single category of specialty leather, if the leather coating operation
14546 is complying under Section 218.926(b)(2)(B);
14547
- 14548 C) The name and identification number of each coating line in the
14549 leather coating operation;
14550
- 14551 D) The name, identification number, and type, i.e., stain or "other," of
14552 each coating as applied in the leather coating operation;
14553
- 14554 E) The weight of VOM per volume as applied and the volume of each
14555 coating as applied in the leather coating operation on a monthly
14556 basis, if the leather coating operation is complying under Section
14557 218.296(b)(2)(A) or (B), or otherwise the weight of VOM per
14558 volume of coating as applied (excluding water and any compounds
14559 which are specifically exempted from the definition of VOM);
14560
- 14561 F) The production of leather in square feet on a monthly basis,
14562 including the number of each leather item produced and the area of
14563 the item, if the leather coating operation is complying under
14564 Section 218.926(b)(2)(B);
14565
- 14566 G) A demonstration that the leather coating operation complies with
14567 the applicable requirement among Section 218.926(b)(2)(A) or (B),
14568 if applicable, expressed in the terms of the requirement, i.e., total
14569 tons of VOM contained in stain coatings other than stain coating
14570 during a consecutive 12-month period or lb VOM/1000 square feet
14571 of specialty leather produced on a monthly basis, accompanied by
14572 the calculations by which it was determined;
14573
- 14574 H) The instrument or method by which the owner or operator will
14575 accurately measure or calculate the volume of each coating as
14576 applied in the leather coating operation on a monthly basis, if the
14577 leather coating operation is complying under Section
14578 218.926(b)(2)(A) or (B);
14579
- 14580 I) The instrument or method by which the owner or operator will
14581 accurately measure or calculate the area of such category of leather
14582 produced on a monthly basis, if the leather coating operation is
14583 complying under Section 218.926(b)(2)(B);

**POLLUTION CONTROL BOARD
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- 14584
- 14585 J) The method by which the owner or operator will create and
- 14586 maintain monthly records as required in subsection (d)(2); and
- 14587
- 14588 K) An example of the format in which the records required in
- 14589 subsection (d)(2) will be kept.
- 14590
- 14591 2) On and after an applicable date under Section 218.106 or on and after the
- 14592 initial start-up date, the owner or operator of a subject leather coating
- 14593 operation must collect and record all of the following information for the
- 14594 leather coating operation on a monthly basis and maintain the information
- 14595 at the source for three years:
- 14596
- 14597 A) The name, identification number, and type of each coating as
- 14598 applied in the leather coating operation;
- 14599
- 14600 B) Records of the leather produced in the leather coating operation
- 14601 which identify all leather produced in the operation and confirm it
- 14602 qualifies as the specified category of specialty leather, if the leather
- 14603 coating operation is complying under Section 218.926(b)(2)(B);
- 14604
- 14605 C) The weight of VOM per volume and the volume of each coating as
- 14606 applied in the leather coating operation on a monthly basis
- 14607 determined in compliance with Section 218.991(d)(1)(H), if the
- 14608 leather coating operation is complying under Section
- 14609 218.926(b)(2)(A) or (B), or otherwise the greatest weight of VOM
- 14610 per volume of coating as applied (excluding water and any
- 14611 compounds which are specifically exempted from the definition of
- 14612 VOM);
- 14613
- 14614 D) The production of leather in square feet on a monthly basis,
- 14615 including the number of each leather item produced and the area of
- 14616 each item determined in compliance with Section 218.991(d)(1)(I)
- 14617 and a federally enforceable permit condition, if the leather coating
- 14618 operation is complying under Section 218.926(b)(2)(B); and
- 14619
- 14620 E) A demonstration that the leather coating operation complies with
- 14621 the applicable requirement among Section 218.926(b)(2)(A) or (B)
- 14622 of this Part, if applicable, expressed in the terms of the
- 14623 requirement, i.e., total tons of VOM contained in stain coatings
- 14624 other than stain coating during a consecutive 12-month period or lb

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VOM/1000 square feet of specialty leather produced on a monthly basis, accompanied by the calculations by which it was determined.

- 3) On and after an applicable date under Section 218.106, the owner or operator of a subject leather coating operation must notify the Agency:
- A) Of any violation of Subpart PP by sending a copy of any record showing a violation to the Agency within 30 days after the violation;
- B) At least 30 calendar days before changing the method of compliance with Subpart PP from using compliant coatings to using capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator must comply with subsection (a)(1) or (b)(1), respectively. After changing the method of compliance with Subpart PP from using compliant coatings to using capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator must comply with subsection (a) or (b), respectively.

(Source: Amended at 50 Ill. Reg. _____, effective
_____)

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Section 218.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing

<u>CAS No.^a</u>	<u>Chemical</u>
105-57-7	Acetal
75-07-0	Acetaldehyde
107-89-1	Acetaldol
60-35-5	Acetamide
103-84-4	Acetanilide
64-19-7	Acetic acid
108-24-7	Acetic anhydride
67-64-1	Acetone
75-86-5	Acetone cyanohydrin
75-05-8	Acetonitrile
98-86-2	Acetophenone
75-36-5	Acetyl chloride
74-86-2	Acetylene
107-02-8	Acrolein
79-06-1	Acrylamide
79-10-7	Acrylic acid & esters
107-13-1	Acrylonitrile
124-04-9	Adipic acid
111-69-3 ^(b)	Adiponitrile
^(b)	Alkyl naphthalenes
107-18-6	Allyl alcohol
107-05-1	Allyl chloride
1321-11-5	Aminobenzoic acid
111-41-1	Aminoethylethanolamine
123-30-8	p-aminophenol
628-63-7, 123-92-2	Amyl acetates
71-41-0 ^c	Amyl alcohols
110-58-7	Amyl amine
543-59-9	Amyl chloride
110-68-7 ^c	Amyl mercaptans
1322-06-1	Amyl phenol
62-53-3	Aniline
142-04-1	Aniline hydrochloride
29191-52-4	Anisidine
100-66-3	Anisole
118-92-3	Anthranilic acid

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84-65-1	Anthraquinone
100-52-7	Benzaldehyde
55-21-0	Benzamide
71-43-2	Benzene
98-48-6	Benzenedisulfonic acid



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<u>CAS No.^a</u>	<u>Chemical</u>
98-11-3	Benzenesulfonic acid
134-81-6	Benzil
76-93-7	Benzilic acid
65-85-0	Benzoic acid
119-53-9	Benzoin
100-47-0	Benzonitrile
119-61-9	Benzophenone
98-07-7	Benzotrichloride
98-88-4	Benzoyl chloride
100-51-6	Benzyl alcohol
100-46-9	Benzylamine
120-51-4	Benzyl benzoate
100-44-7	Benzyl chloride
98-87-3	Benzyl dichloride
92-52-4	Biphenyl
80-05-7	Bisphenol A
10-86-1	Bromobenzene
27497-51-4	Bromonaphthalene
106-99-0	Butadiene
106-98-9	1-butene
123-86-4	n-butyl acetate
141-32-2	n-butyl acrylate
71-36-3	n-butyl alcohol
78-92-2	s-butyl alcohol
75-65-0	t-butyl alcohol
109-73-9	n-butylamine
13952-84-6	s-butylamine
75-64-9	t-butylamine
98-73-7	p-tert-butyl benzoic acid
107-88-0	1,3-butylene glycol
123-72-8	n-butyraldehyde
107-92-6	Butyric acid
106-31-0	Butyric anhydride
109-74-0	Butyronitrile
105-60-2	Caprolactam
75-1-50	Carbon disulfide
558-13-4	Carbon tetrabromide
55-23-5	Carbon tetrachloride

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next section below.

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9004-35-7	Cellulose acetate
79-11-8	Chloroacetic acid
108-42-9	m-chloroaniline
95-51-2	o-chloroaniline
106-47-8	p-chloroaniline
35913-09-8	Chlorobenzaldehyde

CAS No.^a

Chemical

108-90-7	Chlorobenzene
118-91-2, 535-80-8, 74-11-3 ^c	Chlorobenzoic acid
2136-81-4, 2136-89-2, 5216-25-1 ^c	Chlorobenzotrichloride
1321-03-5	Chlorobenzoyl chloride
75-45-6	Chlorodifluoroethane
25497-29-4	Chlorodifluoromethane
67-66-3	Chloroform
25586-43-0	Chloronaphthalene
88-73-3	o-chloronitrobenzene
100-00-5	p-chloronitrobenzene
25167-80-0	Chlorophenols
126-99-8	Chloroprene
7790-94-5	Chlorosulfonic acid
108-41-8	m-chlorotoluene
95-49-8	o-chlorotoluene
106-43-4	p-chlorotoluene
75-72-9	Chlorotrifluoromethane
108-39-4	m-cresol
95-48-7	o-cresol
106-44-5	p-cresol
1319-77-3	Mixed cresols
1319-77-3	Cresylic acid
4170-30-0	Crotonaldehyde
3724-65-0	Cratonic acid
98-82-8	Cumene
80-15-9	Cumene hydroperoxide
372-09-8	Cyanoacetic acid
506-77-4	Cyanogen chloride
108-80-5	Cyanuric acid
108-77-0	Cyanuric chloride
110-82-7	Cyclohexane
108-93-0	Cyclohexanol
108-94-1	Cyclohexanone

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110-83-8	Cyclohexene
108-91-8	Cyclohexylamine
111-78-4	Cyclooctadiene
112-30-1	Decanol
123-42-2	Diacetone alcohol
27576-04-1	Diaminobenzoic acid
95-76-1, 95-82-9,	Dichloroaniline

554-00-7, 608-27-5,

608-31-1, 626-43-7,

27134-27-6, 57311-92-9^c

~~554-00-7, 608-27-5,~~

~~608-31-1, 626-43-7,~~

~~27134-27-6, 57311-92-9^c~~

541-73-1	m-dichlorobenzene
95-50-1	o-dichlorobenzene
106-46-7	p-dichlorobenzene
75-71-8	Dichlorodifluoromethane

CAS No.^a

Chemical

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Align under above list

111-44-4	Dichloroethyl ether
107-06-2	1,2-dichloroethane (EDC)
96-23-1	Dichlorohydrin
26952-23-8	Dichloropropene
101-83-7	Dicyclohexylamine
109-89-7	Diethylamine
111-46-6	Diethylene glycol
112-36-7	Diethylene glycol diethyl ether
111-96-6	Diethylene glycol dimethyl ether
112-34-5	Diethylene glycol monobutyl ether
124-17-7	Diethylene glycol mononbutyl ether acetate
111-90-0	Diethylene glycol monoethyl ether
112-15-2	Diethylene glycol monoethyl ether acetate
111-77-3	Diethylene glycol monomethyl ether
64-67-5	Diethyl sulfate
75-37-6	Difluoroethane
25167-70-8	Diisobutylene
26761-40-0	Diisodecyl phthalate
27554-26-3	Diisooctyl phthalate
674-82-8	Diketene
124-40-3	Dimethylamine

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121-69-7	N,N-dimethylaniline
115-10-6	N,N-dimethyl ether
68-12-2	N,N-dimethylformamide
57-14-7	Dimethylhydrazine
77-78-1	Dimethyl sulfate
75-18-3	Dimethyl sulfide
67-68-5	Dimethyl sulfoxide
120-61-6	Dimethyl terephthalate
99-34-3	3,5-dinitrobenzoic acid
51-28-5	Dinitrophenol
	Dinitrotoluene
123-91-1	Dioxane
646-06-0	Dioxilane
122-39-4	Diphenylamine
101-84-4	Diphenyl oxide
102-08-9	Diphenyl thiourea
25265-71-8	Dipropylene glycol
25378-22-7	Dodecene
28675-17-4	Dodecylaniline
27193-86-8	Dodecylphenol
106-89-8	Epichlorohydrin
64-17-5	Ethanol
141-43-5 ^c	Ethanolamines
141-78-6	Ethyl acetate

CAS No.^aChemical

	Ethyl acetoacetate
141-97-9	
140-88-5	Ethyl acrylate
75-04-7	Ethylamine
100-41-4	Ethylbenzene
74-96-4	Ethyl bromide
9004-57-3	Ethylcellulose
75-00-3	Ethyl chloride
105-39-5	Ethyl chloroacetate
105-56-6	Ethylcyanoacetate
74-85-1	Ethylene
96-49-1	Ethylene carbonate
107-07-3	Ethylene chlorohydrin
107-15-3	Ethylenediamine
106-93-4	Ethylene dibromide

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Same here

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107-21-1	Ethylene glycol
111-55-7	Ethylene glycol diacetate
110-71-4	Ethylene glycol dimethyl ether
111-76-2	Ethylene glycol monobutyl ether
112-07-2	Ethylene glycol monobutyl ether acetate
110-80-5	Ethylene glycol monoethyl ether
111-15-9	Ethylene glycol monoethyl ether acetate
109-86-4	Ethylene glycol monoethyl ether
110-49-6	Ethylene glycol monomethyl ether acetate
122-99-6	Ethylene glycol monophenyl ether
2807-30-9	Ethylene glycol monopropyl ether
75-21-8	Ethylene oxide
60-29-7	Ethyl ether
104-76-7	2-ethylhexanol
122-51-0	Ethyl orthoformate
95-92-1	Ethyl oxalate
41892-71-1	Ethyl sodium oxaloacetate
50-00-0	Formaldehyde
75-12-7	Formamide
64-18-6	Formic acid
110-17-8	Fumaric acid
98-01-1	Furfural
56-81-5	Glycerol (Synthetic)
26545-73-7	Glycerol dichlorohydrin
25791-96-2	Glycerol triether
56-40-6	Glycine
107-22-2	Glyoxal
118-74-1	Hexachlorobenzene
67-72-1	Hexachloroethane
36653-82-4	Hexadecyl alcohol
124-09-4	Hexamethylenediamine

CAS No.^a

Chemical

629-11-8	Hexamethylene glycol
100-97-0	Hexamethylenetetramine
74-90-8	Hydrogen cyanide
123-31-9	Hydroquinone
99-96-7	p-hydroxybenzoic acid
26760-64-5	Isoamylene
78-83-1	Isobutanol
110-19-0	Isobutyl acetate

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115-11-7	Isobutylene
78-84-2	Isobutyraldehyde
79-31-2	Isobutyric acid
25339-17-7	Isodecanol
26952-21-6	Isooctyl alcohol
78-78-4	Isopentane
78-59-1	Isophorone
121-91-5	Isophthalic acid
78-79-5	Isoprene
67-63-0	Isopropanol
108-21-4	Isopropyl acetate
75-31-0	Isopropylamine
75-29-6	Isopropyl chloride
25168-06-3	Isopropylphenol
463-51-4	Ketene
b	Linear alkyl sulfonate*
123-01-3	Linear alkylbenzene
110-16-7	Maleic acid
108-31-6	Maleic anhydride
6915-15-7	Malic acid
141-79-7	Mesityl oxide
121-47-1	Metanilic acid
79-41-4	Methacrylic acid
563-47-3	Methallyl chloride
67-56-1	Methanol
79-20-9	Methyl acetate
105-45-3	Methyl acetoacetate
74-89-5	Methylamine
100-61-8	n-methylaniline
74-83-9	Methyl bromide
37365-71-2	Methyl butynol
74-87-3	Methyl chloride
108-87-2	Methyl cyclohexane
1331-22-2	Methyl cyclohexanone
75-09-2	Methylene chloride
101-77-9	Methylene dianiline
101-68-8	Methylene diphenyl diisocyanate

CAS No.^aChemical

78-93-3	Methyl ethyl ketone
107-31-3	Methyl formate

Weinert, Beate [BW68] May 4, 2026
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**POLLUTION CONTROL BOARD
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108-11-2	Methyl isobutyl carbinol
108-10-1	Methyl isobutyl ketone
80-62-6	Methyl methacrylate
77-75-8	Methylpentynol
98-83-9	B-methylstyrene
110-91-8	Morpholine
85-47-2	a-naphthalene sulfonic acid
120-18-3	B-naphthalene sulfonic acid
90-15-3	a-naphthol
135-19-3	B-naphthol
75-98-9	Neopentanoic acid
88-74-4	o-nitroaniline
100-01-6	p-nitroaniline
91-23-6	o-nitroanisole
100-17-4	p-nitroanisole
98-95-3	Nitrobenzene
27178-83-2 ^c	Nitrobenzoic acid (o, m & p)
79-24-3	Nitroethane
75-52-5	Nitromethane
88-75-5	Nitrophenol
25322-01-4	Nitropropane
1321-12-6	Nitrotoluene
27215-95-8	Nonene
25154-52-3	Nonylphenol
27193-28-8	Octylphenol
123-63-7	Paraldehyde
115-77-5	Pentaerythritol
109-66-0	n-pentane
109-67-1	l-pentene
127-18-4	Perchloroethylene
594-42-3	Perchloromethyl mercaptan
94-70-2	o-phenetidine
156-43-4	p-phenetidine
108-95-2	Phenol
98-67-9, 585-38-6, 609-46-1, 133-39-7^c	Phenolsulfonic acids
609-46-1, 133-39-7^c	
91-40-7 (b)	Phenyl anthranilic acid
75-44-5	Phenylenediamine
85-44-9	Phosgene
	Phthalic anhydride

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85-41-6	Phthalimide
108-99-6	b-picoline
110-85-0	Piperazine
9003-29-6, 25036-29-7 ^c	Polybutenes

CAS No.^aChemical

25322-68-3	Polyethylene glycol
25322-69-4	Polypropylene glycol
123-38-6	Propionaldehyde
79-09-4	Propionic acid
71-23-8	n-propyl alcohol
107-10-8	Propylamine
540-54-5	Propyl chloride
115-07-1	Propylene
127-00-4	Propylene chlorohydrin
78-87-5	Propylene dichloride
57-55-6	Propylene glycol
75-56-9	Propylene oxide
110-86-1	Pyridine
106-51-4	Quinone
108-46-3	Resorcinol
27138-57-4	Resorcylic acid
69-72-7	Salicylic acid
127-09-3	Sodium acetate
532-32-1	Sodium benzoate
9004-32-4	Sodium carboxymethyl cellulose
3926-62-3	Sodium chloroacetate
141-53-7	Sodium formate
139-02-6	Sodium phenate
110-44-1	Sorbic acid
100-42-5	Styrene
110-15-6	Succinic acid
110-61-2	Succinitrile
121-57-3	Sulfanilic acid
126-33-0	Sulfolane
1401-55-4	Tannic acid
100-21-0	Terephthalic acid
78-00-2	Tetra ethyl lead
79-34-5 ^c	Tetrachloroethanes
117-08-8	Tetrachlorophthalic anhydride

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119-64-2	Tetrahydronaphthalene
85-43-8	Tetrahydrophthalic anhydride
75-74-1	Tetramethyl lead
110-60-1	Tetramethylenediamine
110-18-9	Tetramethylethylenediamine
108-88-3	Toluene
95-80-7	Toluene-2,4-diamine
584-84-9	Toluene-2,4-diisocyanate
26471-62-5	Toluene diisocyanates (mixture)
1333-07-9	Toluene sulfonamide
104-15-4 ^c	Toluenesulfonic acids

CAS No.^aChemical

98-59-9	Toluene sulfonyl chloride
26915-12-8	Toluidines
87-61-6, 108-70-3, 120-82-1 ^c	Trichlorobenzenes
71-55-6	1,1,1-trichloroethane
79-00-5	1,1,2-trichloroethane
79-01-6	Trichloroethylene
75-69-4	Trichlorofluoromethane
96-18-4	1,2,3-trichloropropane
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane
121-44-8	Triethylamine
112-27-6	Triethylene glycol
112-49-2	Triethylene glycol dimethyl ether
7756-94-7	Triisobutylene
75-50-3	Trimethylamine
57-13-6	Urea
108-05-4	Vinyl acetate
75-01-4	Vinyl chloride
75-35-4	Vinylidene chloride
25013-15-4	Vinyl toluene
1330-20-7	Xylenes (mixed)
95-47-6	o-xylene
106-42-3	p-xylene
1300-71-6	Xylenol
1300-73-8	Xylidine
^(b)	methyl tert-butyl ether
9002-88-4	Polyethylene
^(b)	Polypropylene
9009-53-6	Polystyrene

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- 14654
- 14655 a) CAS numbers refer to the Chemical Abstracts ~~Registry~~ Registry numbers
- 14656 assigned to specific chemicals, isomers, or mixtures of chemicals. Some isomers
- 14657 or mixtures that are covered by the standards do not have CAS numbers assigned
- 14658 to them. The standards apply to all the chemicals listed, whether CAS numbers
- 14659 have been assigned and listed or not.
- 14660
- 14661 b) CAS number(s) have not been assigned to this chemical, its isomers, or mixtures
- 14662 containing these chemicals.
- 14663

14664 (Source: Amended at 50 Ill. Reg. _____, effective

14665 _____)

14666

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Section 218.APPENDIX C Reference Methods and Procedures

Introduction

14670

14671 This Appendix presents the reference methods and procedures required for implementing

14672 Reasonably Available Control Technology (RACT). Methods and procedures are identified for

14673 two types of RACT implementation:

14674

- 14675 a) Determining VOM destruction efficiency to evaluate compliance with the 98% by
- 14676 weight VOM reduction or 20 ppmv emission limit in Sections 218.520 through
- 14677 218.527; and
- 14678
- 14679 b) Determining offgas flowrate, hourly emissions, and stream net heating value to
- 14680 calculate TRE.
- 14681

14682 All reference methods identified in this Appendix refer to the reference methods at 40 CFR

14683 60.Appendix A, incorporated by reference in Section 218.112.

14684

VOM DESTRUCTION EFFICIENCY DETERMINATION

14685

14686

14687 The following reference methods and procedures are required to determine compliance with the

14688 percent destruction efficiency in Sections 218.520 through 218.527.

14689

- 14690 a) Reference Method 1 or 1A to select the sampling site. The control device inlet
- 14691 sampling site to determine vent stream molar composition or total organic
- 14692 compound destruction efficiency must be before the inlet of any control device
- 14693 and after all recovery devices.
- 14694

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- b) Reference Methods 2, 2A, 2C, or 2D to determine the volumetric flowrate.
- c) Reference Method 3 to measure oxygen concentration of the air dilution correction. The emission sample must be corrected to 3% oxygen.
- d) Reference Method 18 to determine the concentration of total organic compounds (excluding methane and ethane) in the control device outlet and total organic compound reduction efficiency of the control device.

TRE DETERMINATION

The following reference methods and procedures are required to determine the offgas flowrate, hourly emissions, and the net heating value of the gas combusted to calculate the vent stream TRE.

- a) Reference Method 1 or 1A to select the sampling site. The sampling site for the vent stream flowrate and molar composition determinations in subsections (b) and (c) must be before the inlet of any combustion device, before any post-reactor dilution of the stream with air, and before any post-reactor introduction of halogenated compounds into the vent stream. Subject to the preceding restrictions on the sampling site, it must be after the final recovery device. If any gas stream other than the air oxidation vent stream is normally conducted through the recovery system of the affected facility, the stream must be rerouted or turned off while the vent stream is sampled, but must be routed normally before measuring the initial value of the monitored parameters to determine compliance with the recommended RACT. If the air oxidation vent stream is normally routed through any equipment which is not a part of the air oxidation process as defined in 35 Ill. Adm. Code 211.350, the equipment must be bypassed by the vent stream while the vent stream is sampled, but must not be bypassed while measuring the initial value of the monitored parameters to determine compliance with Subpart V.
- b) The molar composition of the vent stream must be determined using the following methods:
- 1) Reference Method 18 to measure the concentration of all organics, including those containing halogens, unless a significant portion of the compounds of interest are polymeric (high molecular weight), can polymerize before analysis, or have low vapor pressures, in which case Reference Method 25(a) must be used.
 - 2) ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed

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Gas by Gas Chromatography, incorporated by reference in Section 215.105, to measure the concentration of carbon monoxide and hydrogen.

3) Reference Method 4 to measure the content of water vapor, if necessary.

c) The volumetric flowrate must be determined using Reference Method 2, 2A, 2C, or 2D, as appropriate.

d) The net heating value of the vent stream must be calculated using the following equation:

(Mod)

$$H = K \sum_{i=1}^n C_i H_i$$

where:

H = Net heating value of the sample, MJ/ppm, where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of F (vent stream flowrate) in subsection (e)

K = Constant $1.740 \times 10^{-7} (\text{ppm})^{-1} (\text{mole/scm}) (\text{MJ/kcal})$, where standard temperature for mole/scm is 20 °C

H = Net heating value of the sample, MJ/ppm, where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of F (vent stream flowrate) in subsection (e)

K = Constant $1.740 \times 10^{-7} (\text{ppm})^{-1} (\text{mole/scm}) (\text{MJ/kcal})$, where standard temperature for mole/scm is 20 °C

C_i = Concentration of sample component i, reported on a wet basis, in ppm, as measured by Reference Method 18 or ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography, incorporated by reference in Section 215.105.

H_i = Net heat of combustion of sample component i, kcal/mole based on combustion at 25 °C and 760 mmHg. If published values are not available or cannot be calculated, the heats of combustion of vent stream components must be determined using ASTM D4809-18, incorporated by reference in Section 218.112.

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C_i
 H_i

~~$C[i]$ = Concentration of sample component i, reported on a wet basis, in ppm, as measured by Reference Method 18 or ASTM D1946-90 (2019) — Standard Practice for Analysis of Reformed Gas by Gas Chromatography, incorporated by reference in Section 215.105.~~

~~$H[i]$ = Net heat of combustion of sample component i, kcal/mole based on combustion at 25 °C and 760 mmHg. If published values are not available or cannot be calculated, the heats of combustion of vent stream components must be determined using ASTM D4809-18, incorporated by reference in Section 218.112.~~

- e) The emission rate of total organic compounds in the process vent stream must be calculated using the following equation:

(Mod) ~~$E = \sum C_i M_i F$~~

Where:

~~E = Emission rate of total organic compounds (excluding methane and ethane) in the sample in kg/hr~~

E = Emission rate of total organic compounds (excluding methane and ethane) in the sample in kg/hr;

K = Constant, 2.494×10^{-6} (ppm)⁻¹ (mole/scm) (kg/g) (min/hr), where standard temperature for mole/scm is 20 °C;

M_i = Molecular weight of sample component i (g/mole)

F = Vent stream flow rate (scm/min), at a standard temperature of 20 °C.

~~K = Constant 2.494×10^{-6} (ppm)⁻¹ (mole/scm) (kg/g) (min/hr), where standard temperature for (mole/scm) is 20 °C~~

~~M_i = Molecular weight of sample component i (g/mole)~~

~~F = Vent stream flowrate (scm/min), at a standard temperature of 20 °C~~

- f) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) must be summed from the individual concentrations of compounds containing halogens which were measured by Reference Method 18.

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 M_i

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Section 218.APPENDIX D Coefficients for the Total Resource Effectiveness (TRE) Index Equation

This Appendix contains values for the TRE index equation in Subpart V.

If a flow rate falls exactly on the boundary between the indicated ranges, the operator must use the row in which the flow rate is maximum.

**COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS
WITH NET HEATING VALUE LESS THAN OR EQUAL TO 3.5 MJ/scm**

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FLOW RATE

(scm/min)

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.0	13	48.73	0.	0.404		-0. 0.	0.
13.5	70	42.35	0.624	0.404		-0. 0.	0.0245
700.	14	84.38	0.678	0.404		-0. 0.	0.0346
1400.	21	126.41	0.712	0.404		-0. 0.	0.0424
2100.	28	168.44	0.747	0.404		-0. 0.	0.0490
2800.	35	210.47	0.758	0.404		-0. 0.	0.0548

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**COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS
WITH NET HEATING VALUE GREATER THAN 3.5 MJ/scm**

FLOW RATE

(scm/min)

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.	13.5		47. 0.		-0. 0.		0.
13. 700.			41. 0.605		-0. 0.		0.
700 1400.			82. 0.658		-0. 0.		0.
1400 2100.			12. 0.691		-0. 0.		0.
2100 2800.			16. 0.715		-0. 0.		0.
2800 3500.			20. 0.734		-0. 0.		0.

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**POLLUTION CONTROL BOARD
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14812
14813 COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
14814 STREAMS WITH NET HEATING VALUE LESS THAN OR EQUAL TO 0.48 MJ/Scm
14815

14816 ~~FLOW RATE~~

14817 ~~(scm/min)~~

FLOW RATE
(scm/min)

Min.	Max.	a	b	c	d	e	f
0.	13.5	19.05		0.	0.1 -0.214		0. 0.
13.5	1350.	16.61		0.2	0.1 -0.214		0. 0.0245
1350.	2700.	32.91		0.2	0.1 -0.214		0. 0.0346
2700.	4050.	49.21		0.2	0.1 -0.214		0. 0.0424

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14818
14819
14820 COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
14821 STREAMS WITH NET HEATING VALUE GREATER THAN 0.48 AND LESS THAN OR
14822 EQUAL TO 1.9 MJ/scm
14823

14824 ~~FLOW RATE~~

14825 ~~(scm/min)~~

FLOW RATE
(scm/min)

Min.	Max.	a	b	c	d	e	f
0.		13.	19.	0.	0.4 -0.202	0.	0.
13.5		13.	18.	0.1	0.4 -0.202	0.	0.0245
1350.		270.	36.	0.1	0.4 -0.202	0.	0.0346
2700.		40.	54.	0.1	0.4 -0.202	0.	0.0424

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14826
14827
14828 COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
14829 STREAMS WITH NET HEATING VALUE GREATER THAN 1.9 AND LESS THAN OR
14830 EQUAL TO 3.6 MJ/scm
14831

14832 ~~FLOW RATE~~

14833 ~~(scm/min)~~

FLOW RATE
(scm/min)

Min.	Max.	a	b	c	d	e	f

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.0	13.5	15. 0.	0.0 0.	0.	0.
13.5	1190.	13. 0.157	0.0 0.	0.	0.0245
1190.	2380.	26. 0.171	0.0 0.	0.	0.0346
2380.	3570.	40. 0.179	0.0 0.	0.	0.0424

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 3.6 MG/scm

FLOW RATE

(scm/min)

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.	13.5	15.	0.	0.	0.0	0.	0.
13.	1190.	13.	0.	0.	0.0	0.0	0.0245
1190.	2380.	26.	0.	0.	0.0	0.0	0.0346
2380.	3570.	40.	0.	0.	0.0	0.0	0.0424

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Section 218.APPENDIX E List of Affected Marine Terminals

The following table identifies the expected VOM emission reductions, in pounds per day in 1996, from the control of the marine vessel loading of gasoline and crude oil from the listed sources, their successors, and their assigns. The reduction of VOM emissions must occur after November 1990 and must not include reductions resulting from compliance with any federally required controls or from any measures included in any SIP adopted by the State of Illinois to satisfy any other CAA requirement.

Facility	<u>Permit/Source</u>	<u>Reduction</u>
~~Mobil Joliet Refining Corp.~~	~~88010021045~~	~~1,595~~
<u>Mobil-Joliet Refining Corp.</u>	<u>88010021045</u>	<u>1,595</u>
Facility ID# 197800AAA		
~~Texaco Refining~~	~~84050048007~~	~~541~~
<u>Texaco Refining</u>	<u>84050048007</u>	<u>541</u>
Facility ID # 197810AAA		
~~UNO-VEN Company~~	~~88010019055~~	~~549~~
<u>UNO-VEN Company</u>	<u>88010019055</u>	<u>549</u>
Facility ID # 197090AAI		

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Section 218. ~~Appendix~~ APPENDIX G TRE Index Measurements for SOCMi Reactors and Distillation Units

For Sections 218.431 through 218.435, the following apply:

- a) The following test methods must be used to determine compliance with the TRE index value:
 - 1) Method 1 or 1A, incorporated by reference at Section 218.112, as appropriate, to select the sampling site.
 - A) The sampling site for the vent stream molar composition determination and flow rate in subsections (a)(2) and (a)(3) must be, except for the situations in subsection (a)(1)(B), after the final recovery device if a recovery system is present, before the inlet of any control device, and before any post-reactor or post-distillation unit introduction of halogenated compounds into the vent stream. A traverse site selection method is not needed for vents smaller than 10 cm in diameter.
 - B) If any gas stream other than the reactor or distillation unit vent stream is normally conducted through the final recovery device:
 - i) The sampling site for vent stream flow rate and molar composition must be before the final recovery device and before the point at which any nonreactor or nondistillation unit vent stream or stream from a nonaffected reactor or distillation unit is introduced. Method 18, incorporated by reference at Section 218.112, must be used to measure organic compound concentrations at this site.
 - ii) The efficiency of the final recovery device is determined by measuring the organic compound concentrations using Method 18, incorporated by reference at Section 218.112, at the inlet to the final recovery device after the introduction of all vent streams and at the outlet of the final recovery device.
 - iii) The efficiency of the final recovery device determined according to subsection (a)(1)(B)(ii) must be applied to the organic compound concentrations measured according to

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subsection (a)(1)(B)(i) to determine the concentrations of organic compounds from the final recovery device attributable to the reactor or distillation unit vent stream. The resulting organic compound concentrations are then used to perform the calculations in subsection (a)(4).

- 2) The molar composition of the vent stream must be determined as follows:
- A) Method 18, incorporated by reference at Section 218.112, to measure the concentration of organic compounds, including those containing halogens;
 - B) ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography, incorporated by reference at Section 215.105, to measure the concentration of carbon monoxide and hydrogen; and
 - C) Method 4, incorporated by reference at Section 218.112, to measure the content of water vapor.
- 3) The volumetric flow rate must be determined using Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112, as appropriate.
- 4) The emission rate of VOM (excluding methane and ethane) (E_{VOM}) in the vent stream must be calculated using the following formula:

(Mod)

$$E_{VOM} = K_2 \sum_{j=1}^n C_j M_j Q_j$$

where:

E_{VOM}	Emission rate of VOM (excluding methane and ethane) in the sample, kg/hr.
E_{VOM}	Emission rate of VOM (excluding methane and ethane) in the sample, kg/hr.
K_2	Constant, 2.494×10^{-6} (ppm) ⁻¹ (g-mole/scm) (kg/g) (min/hr), where standard temperature for (g-mole/scm) is 20 °C.
C_i	Concentration of compound j, on a dry basis, in ppmv as

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Amended at 20 Ill. Reg. 14428, effective
October 17, 1996.

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measured by Method 18 incorporated by reference at 218.112, as indicated in Section 218.433(c)(3).

M_j = Molecular weight of sample j, g/g-mole.

Q_s = Vent stream flow rate (scm) at a temperature of 20 °C.

~~K₂ = Constant, 2.494 x 10⁻⁶ (ppm)⁻¹ (g-mole/scm) (kg/g) (min/hr), where standard temperature for (g-mole/scm) is 20 °C.~~

~~C_j = Concentration of compound j, on a dry basis, in ppmv as measured by Method 18, incorporated by reference at Section 218.112, as indicated in Section 218.433(c)(3).~~

~~M_j = Molecular weight of sample j, g/g-mole.~~

~~Q_s = Vent stream flow rate (scm) at a temperature of 20 °C.~~

- 5) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) must be summed from the individual concentrations of compounds containing halogens which were measured by Method 18, incorporated by reference at Section 218.112.

- 6) The net heating value of the vent stream must be calculated using the following:

(Mod)

$$H_T = N_s \sum_{j=1}^n C_j H_c (1 - B_{pm})$$

where:

~~H_T = Net heating value of the sample (MJ/scm), where the net enthalpy per mole of vent stream is based on combustion of 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of Q_s (vent stream flow rate).~~

H_T = Net heating value of the sample (MJ/scm), where the net enthalpy per mole of vent stream is based on combustion of 25 °C and 760 mmHg, but the standard temperature to determine the volume corresponding to one mole is 20 °C, as in the definition of Q_s (vent stream flow rate).

K₁ = Constant 1.740 x 10⁻⁷ (ppmv)⁻¹ (g-mole/scm) (MJ/kcal), where

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standard temperature for (g-mole/scm) is 20 °C.

<u>B_{ws}</u> =	<u>Water vapor content of the vent stream, proportion by volume; except that if the vent stream passes through a final stream jet and is not condensed, it must be assumed that B_{ws} = 0.023 to correct to 2.3% moisture.</u>
<u>C_i</u> =	<u>Concentration on a dry basis of compound j in ppmv, as measured for all organic compounds by Method 18, incorporated by reference at Section 218.112, and measured for hydrogen and carbon monoxide by using ASTM D1946-90 (2019) – Standard Practice for Analysis of Reforemd Gas by Gas Chromatography, incorporated by reference at Section 215.105.</u>
<u>H_j</u> =	<u>Net heat of combustion of compound j, kcal/g-mole, based on combustion at 25 °C and 760 mmHg. The heats of combustion of vent stream components must be determined using ASTM D4809-18, incorporated by reference at Section 218.112, if published values are not available or cannot be calculated.</u>

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- ~~K_i = Constant $1.740 \times 10^{-7} (\text{ppmv})^{-1} (\text{g-mole/scm}) (\text{MJ/kcal})$, where standard temperature for (g-mole/scm) is 20 °C.~~
- ~~B_{ws} = Water vapor content of the vent stream, proportion by volume; except that if the vent stream passes through a final stream jet and is not condensed, it must be assumed that B_{ws} = 0.023 to correct to 2.3% moisture.~~
- ~~C_j = Concentration on a dry basis of compound j in ppmv, as measured for all organic compounds by Method 18, incorporated by reference at Section 218.112, and measured for hydrogen and carbon monoxide by using ASTM D1946-90 (2019) – Standard Practice for Analysis of Reforemd Gas by Gas Chromatography, incorporated by reference at Section 215.105.~~
- ~~H_j = Net heat of combustion of compound j, kcal/g-mole, based on combustion at 25 °C and 760 mmHg. The heats of combustion of vent stream components must be determined using ASTM D4809-18, incorporated by reference at Section 218.112, if published values are not available or cannot be calculated.~~
- b)
- 1) The TRE index value of the vent must be calculated using the following:

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$$\text{TRE} = \frac{[a + b(Q_s) + c(H_T) + d(E_{VOM})]}{E_{VOM}}$$

where:

<u>TRE</u> =	<u>TRE index value.</u>
<u>E_{VOM}</u> =	<u>Hourly emission rate of VOM (kg/hr) as calculated in subsection (a)(4).</u>
<u>Q_s</u> =	<u>Vent stream flow rate scm/min at a standard temperature of 20 °C.</u>
<u>H_T</u> =	<u>Vent stream net heating value (MJ/scm), as calculated in subsection (a)(6).</u>
<u>E_{VOM}</u> =	<u>Hourly emission rate of VOM (excluding methane and ethane) (kg/hr), as calculated in subsection (a)(4).</u>
<u>a,b,c,d</u> =	<u>Value of coefficients presented below are:</u>

~~E_{VOM}~~ =	~~Hourly emission rate of VOM (kg/hr) as calculated in subsection (a)(4).~~
~~Q_s~~ =	~~Vent stream flow rate scm/min at a standard temperature of 20 °C.~~
~~H_T~~ =	~~Vent stream net heating value (MJ/scm), as calculated in subsection (a)(6).~~
~~E_{VOM}~~ =	~~Hourly emission rate of VOM (excluding methane and ethane) (kg/hr), as calculated in subsection (a)(4).~~
~~a,b, e,d~~ =	~~Value of coefficients presented below are:~~

Type of Stream	Control Device Basis	Value of Coefficients			
		a	b	c	d
Nonhalogenated	Flare	2.129	0.183	-0.005	0.359
Thermal incinerator, 0% heat recovery		3.075	0.021	-0.037	0.018

Weinert, Beate [BW84] May 4, 2026
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See above comment regarding = and spacing

Weinert, Beate [BW85] May 4, 2026
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This should be aligned under the above example.
Again see Amended at 20 Ill. Reg. 14428, effective October 17, 1996.

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Thermal incinerator, 70% heat recovery	3.803	0.032	-0.042	0.007

Halogenated	Thermal incinerator and scrubber	5.470	0.181	-0.040	0.004

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- 2) Every owner or operator of a vent stream must use the applicable coefficients identified for values a, b, c, and d in subsection (b)(1) to calculate the TRE index value based on a flare, a thermal incinerator with 0% heat recovery, and a thermal incinerator with 70% heat recovery, and must select the lowest TRE index value.
 - 3) Every owner or operator of a reactor or distillation unit with a halogenated vent stream, determined as any stream with a total concentration of halogen atoms contained in organic compounds of 200 ppmv or greater, must use the applicable coefficients identified for values a, b, c, and d in subsection (b)(1) to calculate the TRE index value based on a thermal incinerator and scrubber.
 - c) Every owner or operator of a source seeking to comply with Section 218.432(b) must recalculate the flow rate and VOM concentration for each affected vent stream whenever process changes are made. Examples of process changes include changes in production capacity, feedstock type, or catalyst type, or whenever recovery equipment is replaced, removed, or added. The flow rate and VOM concentration must be recalculated based on test data or on best engineering estimates of the effects of the change to the recovery system.
 - d) Whenever a process change, as defined in Section 218.435(c), yields a TRE index value of 1.0 or less, the owner or operator must notify and submit a report to the Agency under Section 218.435(c) within 180 calendar days after the process change and must conduct a performance test under Section 218.433.
 - e) To determine that a process vent stream has a VOM concentration below 500 ppmv, the following must be used:
 - 1) The sampling site must be selected as in Section 218.433(c)(1).
 - 2) Method 18 or Method 25A of 40 CFR Part 60. Appendices A-6 and A-7,

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incorporated by reference at Section 218.112, must be used to measure concentration. Alternatively, any other method or data that has been validated according to the protocol in Method 301 of 40 CFR 63.Appendix A, incorporated by reference at Section 218.112, may be used.

- 3) If Method 18 is used, the following procedures must be used to calculate ppmv concentration:
- i) The minimum sampling time for each run must be one hour, in which either an integrated sample or four grab samples must be taken. If grab sampling is used, then the samples must be taken at approximately equal intervals in time, such as 15-minute intervals during the run.
 - ii) The concentration of VOM must be calculated using Method 18 according to Section 218.433(c)(4).
- 4) If Method 25A is used, the following procedures must be used to calculate ppmv VOM concentration:
- i) Method 25A must be used only if a single VOM is greater than 50% of total VOM, by volume, in the process vent stream.
 - ii) The vent stream composition may be determined by either process knowledge, test data collected using an appropriate Reference Method, or a method of data collection validated according to the protocol in Method 301 of 40 CFR 63.Appendix A, incorporated by reference at Section 218.112. Examples of information that constitute process knowledge include calculations based on material balances, process stoichiometry, or previous test results if the results are still relevant to the current process vent stream conditions.
 - iii) The VOM used as the calibration gas for Method 25A must be the single VOM present at greater than 50% of the total VOM by volume.
 - iv) The span value for Method 25A must be 50 ppmv.
 - v) Use of Method 25A is acceptable if the response from the

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high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.

- vi) The concentration of VOM must be corrected to 3% oxygen using the procedures and equation in Section 218.433(c)(3).

- 5) The owner or operator must demonstrate that the concentration of VOM, including methane and ethane, measured by Method 25A is below 250 ppmv to qualify for the low concentration exclusion in Section 218.431.

(Source: Amended at 50 Ill. Reg. _____, effective

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Section 218.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

This Appendix contains limitations to determine compliance with Section 218.212. A source must establish that, at the very least, each participating coating line used for cross-line averaging meets the FIP level of VOM content listed below. The emission limitations for participating coating lines that must not be exceeded are:

~~a) Automobile or Light-Duty Truck Coating~~		~~kg/l~~	~~lb/gal~~
~~1) Prime coat~~		~~0.14~~	~~(1.2)~~
a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal
1)	Prime coat	0.14	(1.2)
2)	Primer surface coat	1.81	(15.1)

~~2) Primer surface coat~~ ~~1.81~~ ~~(15.1)~~

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation must be based on the daily-weighted average from an entire primer surface operation. Compliance must be demonstrated in compliance with the topcoat protocol in Section 218.105(b) and the recordkeeping and reporting requirements in Section 218.211(f). Testing to demonstrate compliance must be performed in compliance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surface limitation.)

		kg/l	lb/gal
3)	Topcoat	1.81	(15.1)

~~kg/l lb/gal~~

~~3) Topcoat~~ ~~1.81~~ ~~(15.1)~~

(Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation must be based on the daily-weighted average from an entire topcoat operation. Compliance must be demonstrated in compliance with the topcoat protocol in Section 218.105(b) and the recordkeeping and reporting requirements in Section 218.211(f). Testing to demonstrate compliance must be performed in compliance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the topcoat limitation.)

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		<u>kg/l</u>	<u>lb/gal</u>
	<u>4) Final repair coat</u>	<u>0.58</u>	<u>(4.8)</u>
<u>b)</u>	<u>Can Coating</u>	<u>kg/l</u>	<u>lb/gal</u>
	<u>1) Sheet basecoat and overvarnish</u>	<u>0.34</u>	<u>(2.8)</u>
	<u>2) Exterior basecoat and overvarnish</u>	<u>0.34</u>	<u>(2.8)</u>
	<u>3) Interior body spray coat</u>	<u>0.51</u>	<u>(4.2)</u>
	<u>4) Exterior end coat</u>	<u>0.51</u>	<u>(4.2)</u>
	<u>5) Side seam spray coat</u>	<u>0.66</u>	<u>(5.5)</u>
	<u>6) End sealing compound coat</u>	<u>0.44</u>	<u>(3.7)</u>
<u>c)</u>	<u>Paper Coating</u>	<u>kg/l</u>	<u>lb/gal</u>
		<u>0.35</u>	<u>(2.9)</u>

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	~~kg/l lb/gal~~		
	~~4) Final repair coat~~	~~0.58~~	~~(4.8)~~
~~b)~~	~~Can Coating~~	~~kg/l~~	~~lb/gal~~
	~~1) Sheet basecoat and overvarnish~~	~~0.34~~	~~(2.8)~~
	~~2) Exterior basecoat and overvarnish~~	~~0.34~~	~~(2.8)~~
	~~3) Interior body spray coat~~	~~0.51~~	~~(4.2)~~
	~~4) Exterior end coat~~	~~0.51~~	~~(4.2)~~
	~~5) Side seam spray coat~~	~~0.66~~	~~(5.5)~~
	~~6) End sealing compound coat~~	~~0.44~~	~~(3.7)~~
~~e)~~	~~Paper Coating~~	~~kg/l~~	~~lb/gal~~
		~~0.35~~	~~(2.9)~~

(Note: The paper coating limitation does not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 218.401. In addition, screen printing on paper is not regulated as paper coating but is regulated under Subpart TT.)

		~~kg/l~~	~~lb/gal~~
		<u>kg/l</u>	<u>lb/gal</u>
<u>d)</u>	<u>Coil Coating</u>	<u>0.31</u>	<u>(2.6)</u>

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e)	<u>Fabric Coating</u>	<u>0.35</u>	<u>(2.9)</u>
f)	<u>Vinyl Coating</u>	<u>0.45</u>	<u>(3.8)</u>
g)	<u>Metal Furniture Coating</u>		
1)	<u>Air Dried</u>	<u>0.36</u>	<u>(3.0)</u>
2)	<u>Baked</u>	<u>0.36</u>	<u>(3.0)</u>
h)	<u>Large Appliance Coating</u>		
1)	<u>Air Dried</u>	<u>0.34</u>	<u>(2.8)</u>
2)	<u>Baked</u>	<u>0.34</u>	<u>(2.8)</u>

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d)	~~Coil Coating~~	~~0.31~~	~~(2.6)~~
e)	~~Fabric Coating~~	~~0.35~~	~~(2.9)~~
f)	~~Vinyl Coating~~	~~0.45~~	~~(3.8)~~
g)	~~Metal Furniture Coating~~		
1)	~~Air Dried~~	~~0.36~~	~~(3.0)~~
2)	~~Baked~~	~~0.36~~	~~(3.0)~~
h)	~~Large Appliance Coating~~		
1)	~~Air Dried~~	~~0.34~~	~~(2.8)~~
2)	~~Baked~~	~~0.34~~	~~(2.8)~~

(Note: The limitation does not apply to using quick-drying lacquers to repair scratches and nicks that occur during assembly, if the volume of coating is 0.95 l (1 quart) or less in any one rolling eight-hour period.)

		<u>kg/l</u>	<u>lb/gal</u>
i)	<u>Magnet Wire Coating</u>	<u>0.20</u>	<u>(1.7)</u>
j)	<u>Miscellaneous Metal Parts and Products Coating</u>		
1)	<u>Clear coating</u>	<u>0.52</u>	<u>(4.3)</u>
2)	<u>Extreme performance coating</u>		
A)	<u>Air Dried</u>	<u>0.42</u>	<u>(3.5)</u>
B)	<u>Baked</u>	<u>0.42</u>	<u>(3.5)</u>
3)	<u>Steel pail and drum interior coating</u>	<u>0.52</u>	<u>(4.3)</u>
4)	<u>All other coatings</u>		
A)	<u>Air Dried</u>	<u>0.42</u>	<u>(3.5)</u>

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	<u>B)</u>	<u>Baked</u>	<u>0.36</u>	<u>(3.0)</u>
<u>k)</u>	<u>Heavy Off-Highway Vehicle Products Coating</u>		<u>kg/l</u>	<u>lb/gal</u>
	<u>1)</u>	<u>Extreme performance prime coat</u>	<u>0.42</u>	<u>(3.5)</u>
	<u>2)</u>	<u>Extreme performance topcoat (air dried)</u>	<u>0.42</u>	<u>(3.5)</u>
	<u>3)</u>	<u>Final repair coat (air dried)</u>	<u>0.42</u>	<u>(3.5)</u>
	<u>4)</u>	<u>All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j).</u>		
<u>l)</u>	<u>Wood Furniture Coating</u>		<u>kg/l</u>	<u>lb/gal</u>
	<u>1)</u>	<u>Clear topcoat</u>	<u>0.67</u>	<u>(5.6)</u>
	<u>2)</u>	<u>Opaque stain</u>	<u>0.56</u>	<u>(4.7)</u>
	<u>3)</u>	<u>Pigmented coat</u>	<u>0.60</u>	<u>(5.0)</u>
	<u>4)</u>	<u>Repair coat</u>	<u>0.67</u>	<u>(5.6)</u>
	<u>5)</u>	<u>Sealer</u>	<u>0.67</u>	<u>(5.6)</u>
	<u>6)</u>	<u>Semi-transparent stain</u>	<u>0.79</u>	<u>(6.6)</u>
	<u>7)</u>	<u>Wash coat</u>	<u>0.73</u>	<u>(6.1)</u>
		<u>kg/l</u>	<u>lb/gal</u>	
i)	Magnet Wire Coating		0.20	(1.7)
j)	Miscellaneous Metal Parts and Products Coating			
	1)	Clear coating	0.52	(4.3)
	2)	Extreme performance coating		
	A)	Air Dried	0.42	(3.5)
	B)	Baked	0.42	(3.5)
	3)	Steel pail and drum interior coating	0.52	(4.3)
	4)	All other coatings		
	A)	Air Dried	0.42	(3.5)
	B)	Baked	0.36	(3.0)
k)	Heavy Off Highway Vehicle Products Coating		kg/l	lb/gal
	1)	Extreme performance prime coat	0.42	(3.5)
	2)	Extreme performance topecoat (air dried)	0.42	(3.5)
	3)	Final repair coat (air dried)	0.42	(3.5)
	4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j).		

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15174	l)	~~Wood Furniture Coating~~	~~kg/l~~	~~lb/gal~~
15175	1)	~~Clear topcoat~~	~~0.67~~	~~(5.6)~~
15176	2)	~~Opaque stain~~	~~0.56~~	~~(4.7)~~
15177	3)	~~Pigmented coat~~	~~0.60~~	~~(5.0)~~
15178	4)	~~Repair coat~~	~~0.67~~	~~(5.6)~~
15179	5)	~~Sealer~~	~~0.67~~	~~(5.6)~~
15180	6)	~~Semi-transparent stain~~	~~0.79~~	~~(6.6)~~
15181	7)	~~Wash coat~~	~~0.73~~	~~(6.1)~~

(Note: An owner or operator of a wood furniture coating operation subject to this Section must apply all coatings using at least one the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system, or high volume low pressure (HVLP) application system. Touch-up and repair operations must not exceed 37.8 l (10 gal) of coating used per day.)

m)	<u>Existing Diesel-Electric Locomotive Coating Lines in Cook County</u>	<u>kg/l</u>	<u>lb/gal</u>
	1) <u>Extreme performance prime coat</u>	<u>0.42</u>	<u>(3.5)</u>
	2) <u>Extreme performance topcoat</u>	<u>0.42</u>	<u>(3.5)</u>
	3) <u>Final repair coat (air dried)</u>	<u>0.42</u>	<u>(3.5)</u>
	4) <u>High temperature aluminum coating</u>	<u>0.72</u>	<u>(6.0)</u>
	5) <u>All other coatings</u>	<u>0.36</u>	<u>(3.0)</u>

m) ~~Existing Diesel Electric Locomotive Coating Lines in Cook County~~

1) ~~Extreme performance prime coat~~ 0.42 (3.5)

n)	<u>Plastic Parts Coating: Automotive/Transportation</u>	<u>kg/l</u>	<u>lb/gal</u>
	1) <u>Interiors</u>		
	A) <u>Baked</u>		
	i) <u>Color coat</u>	<u>0.49</u>	<u>(4.1)</u>
	ii) <u>Primer</u>	<u>0.46</u>	<u>(3.8)</u>
	B) <u>Air Dried</u>		
	i) <u>Color coat</u>	<u>0.38</u>	<u>(3.2)</u>

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	<u>ii)</u>	<u>Primer</u>	<u>0.42</u>	<u>(3.5)</u>
<u>2)</u>	<u>Exteriors (flexible and non-flexible)</u>			
	<u>A)</u>	<u>Baked</u>		
	<u>i)</u>	<u>Primer</u>	<u>0.60</u>	<u>(5.0)</u>
	<u>ii)</u>	<u>Primer nonflexible</u>	<u>0.54</u>	<u>(4.5)</u>
	<u>iii)</u>	<u>Clear coat</u>	<u>0.52</u>	<u>(4.3)</u>
	<u>iv)</u>	<u>Color coat</u>	<u>0.55</u>	<u>(4.6)</u>
	<u>B)</u>	<u>Air Dried</u>		
	<u>i)</u>	<u>Primer</u>	<u>0.66</u>	<u>(5.5)</u>
	<u>ii)</u>	<u>Clear coat</u>	<u>0.54</u>	<u>(4.5)</u>
	<u>iii)</u>	<u>Color coat (red & black)</u>	<u>0.67</u>	<u>(5.6)</u>
	<u>iv)</u>	<u>Color coat (others)</u>	<u>0.61</u>	<u>(5.1)</u>
<u>3)</u>	<u>Specialty</u>			
	<u>A)</u>	<u>Vacuum metallizing basecoats, texture basecoats</u>	<u>0.66</u>	<u>(5.5)</u>
	<u>B)</u>	<u>Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings</u>	<u>0.71</u>	<u>(5.9)</u>
	<u>C)</u>	<u>Gloss reducers, vacuum metallizing topcoats, and texture topcoats</u>	<u>0.77</u>	<u>(6.4)</u>
	<u>D)</u>	<u>Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings</u>	<u>0.82</u>	<u>(6.8)</u>
	<u>E)</u>	<u>Head lamp lens coatings</u>	<u>0.89</u>	<u>(7.4)</u>
<u>o)</u>	<u>Plastic Parts Coating: Business Machine</u>			
	<u>1)</u>	<u>Primer</u>	<u>0.14</u>	<u>(1.2)</u>
	<u>2)</u>	<u>Color coat (non-texture coat)</u>	<u>0.28</u>	<u>(2.3)</u>
	<u>3)</u>	<u>Color (texture coat)</u>	<u>0.28</u>	<u>(2.3)</u>

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<u>4)</u>	<u>Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings</u>	<u>0.48</u>	<u>(4.0)</u>
<u>5)</u>	<u>Specialty coatings</u>		
<u>A)</u>	<u>Soft coat</u>	<u>0.52</u>	<u>(4.3)</u>
<u>B)</u>	<u>Plating resist</u>	<u>0.71</u>	<u>(5.9)</u>
<u>C)</u>	<u>Plating sensitizer</u>	<u>0.85</u>	<u>(7.1)*</u>

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- 2) ~~Extreme performance topcoat (air dried)~~ 0.42 (3.5)
- 3) ~~Final repair coat (air dried)~~ 0.42 (3.5)
- 4) ~~High temperature aluminum coating~~ 0.72 (6.0)
- 5) ~~All other coatings~~ 0.36 (3.0)
- n) ~~Plastic Parts Coating:-~~
- ~~Automotive/Transportation~~ kg/l lb/gal
- 1) ~~Interiors~~
- A) ~~Baked~~
- i) ~~Color Coat~~ 0.49 (4.1)
- ii) ~~Primer~~ 0.46 (3.8)
- B) ~~Air Dried~~
- i) ~~Color Coat~~ 0.38 (3.2)
- ii) ~~Primer~~ 0.42 (3.5)
- 2) ~~Exteriors (flexible and non-flexible)~~
- A) ~~Baked~~
- i) ~~Primer~~ 0.60 (5.0)
- ii) ~~Primer non-flexible~~ 0.54 (4.5)
- iii) ~~Clear Coat~~ 0.52 (4.3)
- iv) ~~Color Coat~~ 0.55 (4.6)
- B) ~~Air Dried~~
- i) ~~Primer~~ 0.66 (5.5)
- ii) ~~Clear coat~~ 0.54 (4.5)
- iii) ~~Color coat (red & black)~~ 0.67 (5.6)
- iv) ~~Color coat (others)~~ 0.61 (5.1)
- 3) ~~Specialty~~
- A) ~~Vacuum metallizing basecoats, texture basecoats~~ 0.66 (5.5)
- B) ~~Black coatings, reflective argent coatings, air bag cover coatings, and soft~~

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15227		coatings	0.71	(5.9)
15228	~~C)~~	~~Gloss reducers, vacuum metallizing-~~		
15229		~~topcoats, and texture-~~		
15230		topcoats	0.77	(6.4)
15231	~~D)~~	~~Stencil coatings, adhesion primers,~~		
15232		~~ink pad coatings, electrostatic prep-~~		
15233		~~coatings, and resist-~~		
15234		coatings	0.82	(6.8)
15235	~~E)~~	~~Head lamp lens coatings~~	0.89	(7.4)
15236	e)	Plastic Parts Coating- Business Machine	1g/l	1b/gal
15237	1)	Primer	0.14	(1.2)
15238	2)	Color coat (non texture coat)	0.28	(2.3)
15239	3)	Color coat (texture coat)	0.28	(2.3)
15240	4)	Electromagnetic interference/radio-		
15241		frequency interference (EMI/RFI)-		
15242		shielding coatings	0.48	(4.0)
15243	5)	Specialty Coatings		
15244	A)	Soft coat	0.52	(4.3)
15245	B)	Plating resist	0.71	(5.9)
15246	C)	Plating sensitizer	0.85	(7.1)*

(Source: Amended at 50 Ill. Reg. _____, effective
_____))

Weinert, Beate [BW92] May 4, 2026
03:49 PM

Remove line of space between C) and D)

Summary report: Litera Compare for Word 11.8.0.56 Document comparison done on 5/27/2026 11:08:07 AM	
Style name: Quotes	
Intelligent Table Comparison: Active	
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Modified filename: 35-218RG-P JCAR 5.6.26.docx	
Changes:	
Add	575
Delete	978
Move From	0
Move To	0
Table Insert	64
Table Delete	252
Table moves to	0
Table moves from	0
Embedded Graphics (Visio, ChemDraw, Images etc.)	33
Embedded Excel	0
Format changes	0
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TITLE 35: ENVIRONMENTAL PROTECTION

SUBTITLE B: AIR POLLUTION

CHAPTER I: POLLUTION CONTROL BOARD

SUBCHAPTER c: EMISSIONS STANDARDS AND
LIMITATIONS FOR STATIONARY SOURCES

PART 218

ORGANIC MATERIAL EMISSION STANDARDS AND
LIMITATIONS FOR THE CHICAGO AREA

SUBPART A: GENERAL PROVISIONS

Section

218.100	Introduction
218.101	Savings Clause
218.102	Abbreviations and Conversion Factors
218.103	Applicability
218.104	Definitions
218.105	Test Methods and Procedures
218.106	Compliance Dates
218.107	~~Operating~~ Operation of Afterburners
218.108	Exemptions, Variations, and Alternative Means of Control or Compliance Determinations
218.109	Vapor Pressure of Volatile Organic Liquids
218.110	Vapor Pressure of Organic Material or Solvent
218.111	Vapor Pressure of Volatile Organic Material
218.112	Incorporations by Reference
218.113	Monitoring for ~~Negligibly Reactive~~ Negligibly Reactive Compounds
218.114	Compliance with Permit Conditions

SUBPART B: ORGANIC EMISSIONS FROM STORAGE
AND LOADING OPERATIONS

Section

218.119	Applicability for VOL
218.120	Control Requirements for Storage Containers of VOL
218.121	Storage Containers of VPL
218.122	Loading Operations
218.123	Petroleum Liquid Storage Tanks
218.124	External Floating Roofs

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218.125	Compliance Dates
218.126	Compliance Plan (Repealed)
218.127	Testing VOL Operations
218.128	Monitoring VOL Operations
218.129	Recordkeeping and Reporting for VOL Operations

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

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218.141	Separation Operations
218.142	Pumps and Compressors
218.143	Vapor Blowdown
218.144	Safety Relief Valves

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218.181	Solvent Cleaning Degreasing Operations
218.182	Cold Cleaning
218.183	Open Top Vapor Degreasing
218.184	Conveyorized Degreasing
218.185	Compliance Schedule (Repealed)
218.186	Test Methods
218.187	Other Industrial Solvent Cleaning Operations

SUBPART F: COATING OPERATIONS

Section	
218.204	Emission Limitations
218.205	Daily-Weighted Average Limitations
218.206	Solids Basis Calculation
218.207	Alternative Emission Limitations
218.208	Exemptions from Emission Limitations
218.209	Exemption from General Rule on Use of Organic Material
218.210	Compliance Schedule
218.211	Recordkeeping and Reporting
218.212	Cross-Line Averaging to Establish Compliance for Coating Lines
218.213	Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines
218.214	Changing Compliance Methods

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- 218.215 Wood Furniture Coating Averaging Approach
- 218.216 Wood Furniture Coating Add-On Control Use
- 218.217 Wood Furniture Coating and Flat Wood Paneling Coating Work Practice Standards
- 218.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings
- 218.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings and Miscellaneous Metal and Plastic Parts Coatings

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SUBPART G: USE OF ORGANIC MATERIAL

- Section
- 218.301 Use of Organic Material
- 218.302 Alternative Standard
- 218.303 Fuel Combustion Emission Units
- 218.304 Operations with Compliance Program

SUBPART H: PRINTING AND PUBLISHING

- Section
- 218.401 Flexographic and Rotogravure Printing
- 218.402 Applicability
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- 218.404 Recordkeeping and Reporting
- 218.405 Lithographic Printing: Applicability
- 218.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996 (Repealed)
- 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines
- 218.408 Compliance Schedule for Lithographic Printing On and After March 15, 1996 (Repealed)
- 218.409 Testing for Lithographic Printing On and After March 15, 1996
- 218.410 Monitoring Requirements for Lithographic Printing
- 218.411 Recordkeeping and Reporting for Lithographic Printing
- 218.412 Letterpress Printing Lines: Applicability
- 218.413 Emission Limitations and Control Requirements for Letterpress Printing Lines
- 218.415 Testing for Letterpress Printing Lines
- 218.416 Monitoring Requirements for Letterpress Printing Lines
- 218.417 Recordkeeping and Reporting for Letterpress Printing Lines

Commented [SKA2]: Delete. The name of the section is **Section 218.409 Testing for Lithographic Printing**

SUBPART Q: SYNTHETIC ORGANIC CHEMICAL

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AND POLYMER MANUFACTURING PLANT

Commented [SKA3]: On file: SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

Section

218.421	General Requirements
218.422	Inspection Program Plan for Leaks
218.423	Inspection Program for Leaks
218.424	Repairing Leaks
218.425	Recordkeeping for Leaks
218.426	Report for Leaks
218.427	Alternative Program for Leaks
218.428	Open-Ended Valves
218.429	Standards for Control Devices
218.430	Compliance Date (Repealed)
218.431	Applicability
218.432	Control Requirements
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SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section

218.441	Petroleum Refinery Waste Gas Disposal
218.442	Vacuum Producing Systems
218.443	Wastewater (Oil/Water) Separator
218.444	Process Unit Turnarounds
218.445	Leaks: General Requirements
218.446	Monitoring Program Plan for Leaks
218.447	Monitoring Program for Leaks
218.448	Recordkeeping for Leaks
218.449	Reporting for Leaks
218.450	Alternative Program for Leaks
218.451	Sealing Device Requirements
218.452	Compliance Schedule for Leaks (<u>Repealed</u>)
218.453	Compliance Dates (Repealed)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

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Section

218.461	Manufacture of Pneumatic Rubber Tires
218.462	Green Tire Spraying Operations
218.463	Alternative Emission Reduction Systems
218.464	Emission Testing
218.465	Compliance Dates (Repealed)
218.466	Compliance Plan (Repealed)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section

218.480	Applicability
218.481	Control of Reactors, Distillation Units, Crystallizers, Centrifuges, and Vacuum Dryers
218.482	Control of Air Dryers, Production Equipment Exhaust Systems, and Filters
218.483	Material Storage and Transfer
218.484	In-Process Tanks
218.485	Leaks
218.486	Other Emission Units
218.487	Testing
218.488	Monitoring for Air Pollution Control Equipment
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SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

Section

218.500	Applicability for Batch Operations
218.501	Control Requirements for Batch Operations
218.502	~~Determining~~ ~~Determination of~~ Uncontrolled Total Annual Mass Emissions and Average Flow Rate Values for Batch Operations
218.503	Performance and Testing Requirements for Batch Operations
218.504	Monitoring Requirements for Batch Operations
218.505	Reporting and Recordkeeping for Batch Operations
218.506	Compliance Date
218.520	Emission Limitations for Air Oxidation Processes
218.521	Definitions (Repealed)
218.522	Savings Clause
218.523	Compliance
218.524	~~Determining~~ ~~Determination of~~ Applicability
218.525	Emission Limitations for Air Oxidation Processes

Commented [SKA4]: This section was renumbered. After "processes" add "(Renumbered)"

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218.526 Testing and Monitoring
218.527 Compliance Date (Repealed)

SUBPART W: AGRICULTURE

Section
218.541 Pesticide Exception

SUBPART X: CONSTRUCTION

Section
218.561 Architectural Coatings
218.562 Paving Operations
218.563 Cutback Asphalt

SUBPART Y: GASOLINE DISTRIBUTION

Section
218.581 Bulk Gasoline Plants
218.582 Bulk Gasoline Terminals
218.583 Gasoline Dispensing Operations – Storage Tank Filling Operations
218.584 Gasoline Delivery Vessels
218.585 Gasoline Volatility Standards
218.586 Gasoline Dispensing Operations – Motor Vehicle Fueling Operations

Commented [SKA5]: Add (Repealed) with track changes off.
This section was repealed 1/28/2013 at 37 Ill. Reg. 1699.

SUBPART Z: DRY CLEANERS

Section
218.601 Perchloroethylene Dry Cleaners (Repealed)
218.602 Applicability (Repealed)
218.603 Leaks (Repealed)
218.604 Compliance Dates (Repealed)
218.605 Compliance Plan (Repealed)
218.606 Exception to Compliance Plan (Repealed)
218.607 Standards for Petroleum Solvent Dry Cleaners
218.608 Operating Practices for Petroleum Solvent Dry Cleaners
218.609 Program for Inspection and Repair of Leaks
218.610 Testing and Monitoring
218.611 Applicability for Petroleum Solvent Dry Cleaners
218.612 Compliance Dates (Repealed)

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218.613 Compliance Plan (Repealed)

SUBPART AA: PAINT AND INK MANUFACTURING

Section

218.620 Applicability
218.621 Exemption for Waterbase Material and Heatset-Offset Ink
218.623 Permit Conditions (Repealed)
218.624 Open-Top Mills, Tanks, Vats, or Vessels
218.625 Grinding Mills
218.626 Storage Tanks
218.628 Leaks
218.630 ~~Cleanup~~Clean-Up
218.636 Compliance Schedule
218.637 Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section

218.640 Applicability
218.642 Emissions Limitation at Polystyrene Plants
218.644 Emissions Testing

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section

218.660 Applicability
218.666 Control Requirements
218.667 Compliance Schedule
218.668 Testing
218.670 Recordkeeping and Reporting for Exempt Emission Units
218.672 Recordkeeping and Reporting for Subject Emission Units

SUBPART DD: AEROSOL CAN FILLING

Section

218.680 Applicability
218.686 Control Requirements
218.688 Testing
218.690 Recordkeeping and Reporting for Exempt Emission Units

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218.692 Recordkeeping and Reporting for Subject Emission Units

SUBPART FF: BAKERY OVENS (REPEALED)

Section

218.720 Applicability (Repealed)
218.722 Control Requirements (Repealed)
218.726 Testing (Repealed)
218.727 Monitoring (Repealed)
218.728 Recordkeeping and Reporting (Repealed)
218.729 Compliance Date (Repealed)
218.730 Certification (Repealed)

SUBPART GG: MARINE TERMINALS

Section

218.760 Applicability
218.762 Control Requirements
218.764 Compliance Certification
218.766 Leaks
218.768 Testing and Monitoring
218.770 Recordkeeping and Reporting

SUBPART HH: MOTOR VEHICLE REFINISHING

Section

218.780 Emission Limitations
218.782 Alternative Control Requirements
218.784 Equipment Specifications
218.786 Surface Preparation Materials
218.787 Work Practices
218.788 Testing
218.789 Monitoring and Recordkeeping for Control Devices
218.790 General Recordkeeping and Reporting (Repealed)
218.791 Compliance Date
218.792 Registration (Repealed)
218.875 Applicability of Subpart BB (Renumbered)
218.877 Emissions Limitation at Polystyrene Plants (Renumbered)
218.879 Compliance Date (Repealed)
218.881 Compliance Plan (Repealed)

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- 218.883 Special Requirements for Compliance Plan (Repealed)
218.886 Emissions Testing (Renumbered)

SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

Section

- 218.890 Applicability
218.891 Emission Limitations and Control Requirements
218.892 Testing Requirements
218.894 Recordkeeping and Reporting Requirements

SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section

- 218.900 Applicability
218.901 Emission Limitations and Control Requirements
218.902 Testing Requirements
218.903 Monitoring Requirements
218.904 Recordkeeping and Reporting Requirements

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
MANUFACTURING PROCESSES

Section

- 218.920 Applicability
218.923 Permit Conditions (Repealed)
218.926 Control Requirements
218.927 Compliance Schedule
218.928 Testing
218.929 Cementable and Dress or Performance Shoe Leather

SUBPART QQ: MISCELLANEOUS FORMULATION
MANUFACTURING PROCESSES

Section

- 218.940 Applicability
218.943 Permit Conditions (Repealed)
218.946 Control Requirements
218.947 Compliance Schedule
218.948 Testing

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SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL
MANUFACTURING PROCESSES

Section	
218.960	Applicability
218.963	Permit Conditions (Repealed)
218.966	Control Requirements
218.967	Compliance Schedule
218.968	Testing

SUBPART TT: OTHER EMISSION UNITS

Section	
218.980	Applicability
218.983	Permit Conditions (Repealed)
218.986	Control Requirements
218.987	Compliance Schedule
218.988	Testing

SUBPART UU: RECORDKEEPING AND REPORTING

Section	
218.990	Exempt Emission Units
218.991	Subject Emission Units

218.APPENDIX A	List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing
218.APPENDIX B	VOM Measurement Techniques for Capture Efficiency (Repealed)
218.APPENDIX C	Reference Methods and Procedures
218.APPENDIX D	Coefficients for the Total Resource Effectiveness Index (TRE) Equation
218.APPENDIX E	List of Affected Marine Terminals
218.APPENDIX G	TRE Index Measurements for SOCMR Reactors and Distillation Units
218.APPENDIX H	Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5].

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill.

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Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007; amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill. Reg. 5330, effective March 23, 2010; amended in R10-8 at 34 Ill. Reg. 9096, effective June 25, 2010; amended in R10-20 at 34 Ill. Reg. 14174, effective September 14, 2010; amended in R10-8(A) at 35 Ill. Reg. 469, effective December 21, 2010; amended in R11-23 at 35 Ill. Reg. 13473, effective July 27, 2011; amended in R11-23(A) at 35 Ill. Reg. 18813, effective October 25, 2011; amended in R12-24 at 37 Ill. Reg. 1699, effective January 28, 2013; amended in R13-18 at 38 Ill. Reg. 1032, effective December 23, 2013; amended in R18-21 at 50 Ill. Reg. _____, effective _____.

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SUBPART A: GENERAL PROVISIONS

Section 218.100 Introduction

- a) This Part contains standards and limitations for emissions of organic material and volatile organic material from stationary sources located in the Chicago area, ~~which is~~ comprised of Cook, DuPage, Kane, Lake, McHenry, and Will Counties; ~~and~~ Aux Sable Township and Goose Lake Township in Grundy County; and Oswego Township in Kendall County.
- b) Sources subject to this Part may be subject to ~~the following~~:
 - 1) Permits required under 35 Ill. Adm. Code 201; and
 - 2) Air quality standards under 35 Ill. Adm. Code 243.
- c) This Part is divided into Subparts ~~which are~~ grouped as follows:
 - 1) Subpart A: General Provisions;

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- 2) Subparts B-F: Emissions from equipment and operations in common to more than one industry;
- 3) Subpart G: Emissions from use of organic material;
- 4) Subparts H-RR: Rules for various industry groups;
- 5) Subpart TT: Rules for emission units not otherwise addressed; and;
- 6) Subpart UU: Recordkeeping and reporting for equipment and operations addressed by Subparts PP, QQ, RR, and TT.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.101 Savings Clause

- a) Every owner or operator of an emission unit formerly subject to 35 Ill. Adm. Code 215 ~~must~~shall have complied with its standards and limitations by the dates and schedules applicable to the emission unit in ~~compliance~~accordance with 35 Ill. Adm. Code 215 or upon initial start-up. All compliance dates or schedules ~~under~~found in 35 Ill. Adm. Code 215 are not superseded by this Part and remain in full force and effect.
- b) Nothing in this Part ~~affects~~shall affect the responsibility of any owner or operator that is now or has been subject to the FIP to comply with its requirements ~~thereunder~~ by the dates specified in the FIP.
- c) ~~As Nothing in~~ this Part ~~as it is amended,~~ nothing relieves from time to time shall relieve the owner or operator of a source subject to ~~the requirements of~~ this Part from the obligation to comply with the applicable requirements and compliance dates ~~set forth in Section 218.106 of this Subpart~~ or any specific schedules ~~under~~contained within the applicable Subparts of this Part, even though those compliance dates may have been expressly superseded by subsequent amendments.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.102 Abbreviations and Conversion Factors

The abbreviations and conversion factors ~~at~~of 35 Ill. Adm. Code ~~211.102211~~ apply to this Part.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.103 Applicability

~~This~~The provisions of this Part ~~applies~~shall apply to all sources located in the Chicago area ~~comprised, which is composed~~ of Cook, DuPage, Kane, Lake, McHenry, and Will Counties, ~~and~~ Aux Sable Township and Goose Lake Township in Grundy County, and Oswego Township in Kendall County.

- a) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on July 1, 1991, with the following exceptions:
- 1) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on September 1, 1991, for each appellant, including the constituents represented by appellants who are associations, who has appealed the ~~federal implementation plan (FIP)~~ for the Chicago area (Illinois Regulatory Group v. USEPA, No. 90-2778 (and consolidated cases) (7th Cir.)).
 - 2) The effectiveness of any provision of this Part applicable to any individual source or category of sources which has appealed the FIP ~~is~~shall be stayed to the extent that ~~the~~such individual source or category of sources received a stay of the effectiveness of the FIP, pending reconsideration, from the USEPA or from the court in the FIP appeal cited in subsection ~~(a)(1)-218.103(a)(1)-above~~. When USEPA has published in the Federal Register final action to revise or affirm the provisions of the FIP specifically applicable to ~~the~~such individual source or category of sources or ~~the~~such stay is otherwise terminated, the Board ~~must~~shall take corresponding action, and the Agency ~~must~~shall submit ~~that~~such action to USEPA for approval. Until ~~such time as~~USEPA approves the corresponding amendment to this Part, the FIP rule ~~remains~~shall remain the applicable implementation plan for that source or category of sources under the Clean Air Act.
 - 3) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on November 15, 1992, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County or in Oswego Township in Kendall County.

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- b) ~~This~~~~The provisions of the Part does~~~~shall~~ not apply to Viskase Corporation; Allsteel, Incorporated; Stepan Company; or Ford Motor Company to the extent ~~that the~~~~such~~ source has obtained an adjusted standard from the Board or an exclusion from the General Assembly for any Subpart of this Part or ~~of~~ 35 Ill. Adm. Code 215.

(~~BOARD NOTE~~~~Board Note: Section~~~~Subsection~~ 218.103(b) ~~is of this Section shall be~~ effective at the federal level only ~~when~~~~upon approval by~~ USEPA ~~approves it.~~)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.104 Definitions

The definitions of 35 Ill. Adm. Code 211 apply to this Part.

(Source: Amended at 17 Ill. Reg. 16636, effective September 27, 1993)

Section 218.105 Test Methods and Procedures

- a) Coatings, Inks, and Fountain Solutions
The following test methods and procedures ~~must~~~~shall~~ be used to determine compliance of as applied coatings, inks, and fountain solutions with the limitations ~~set forth~~ in this Part.
- 1) Sampling: Samples collected for analyses ~~must~~~~shall~~ be one-liter taken into a one-liter container at a location and time ~~so~~~~such~~ that the sample will be representative of the coating as applied (i.e., the sample ~~must~~~~shall~~ include any dilution solvent or other VOM added during the manufacturing process). The container must be tightly sealed immediately after the sample is taken. Any solvent or other VOM added after the sample is taken must be measured and accounted for in the calculations in subsection (a)(3) ~~of this Section~~. For multiple package coatings, separate samples of each component ~~must~~~~shall~~ be obtained. A mixed sample ~~must~~~~shall~~ not be obtained as it will cure in the container. Sampling procedures ~~must~~~~shall~~ follow the guidelines ~~presented~~ in:
- A) ~~ASTM-D D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigment Coating, 3925-81 (1985) standard practice for sampling liquid paints and related pigment coating. — This practice is~~ incorporated by reference in Section 218.112 ~~of~~

Commented [JS9]: Remove this section, as no changes were made to it.

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~~this Part.~~

- B) ~~ASTM-E E300-03 (2022) Standard Practice for Sampling Industrial Chemicals, 300-86 standard practice for sampling industrial chemicals. This practice is~~ incorporated by reference in Section 218.112 ~~of this Part.~~

- 2) Analyses: The applicable analytical methods in this subsection (a)(2) must be specified below shall be used to determine the composition of coatings, inks, or fountain solutions as applied.

- A) Method 24 of 40 CFR 60, Appendix A-7, appendix A-7, incorporated by reference in Section 218.112 ~~of this Part,~~ must be used to determine the VOM content and density of coatings. If it is demonstrated to the satisfaction of the Agency and ~~the~~ USEPA that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. ~~If there is~~ In the event of any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.

Commented [SKA10]: "shall" is on file here. If the agency wants to change the word, it must use track changes.

- B) Method 24A of 40 CFR 60, Appendix A-7, appendix A-7, incorporated by reference in Section 218.112 ~~of this Part,~~ must be used to determine the VOM content and density of rotogravure printing inks and related coatings. If it is demonstrated to the satisfaction of the Agency and USEPA that the plant coating formulation data are equivalent to Method 24A results, formulation data may be used. ~~If there is~~ In the event of any inconsistency between a Method 24A test and formulation data, the Method 24A test will govern.

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- C) The following ASTM methods are the analytical procedures to determine ~~for determining~~ VOM:

- i) ~~ASTM-D D1475-13 (2020) Standard Test Method for Density of Paint Varnish, Lacquer, and Related Products, 1475-85: Standard test method for density of paint, varnish, lacquer and related products. This test method is~~ incorporated by reference in Section 218.112 ~~of this Part.~~
- ii) ~~ASTM-D D2369-24 Standard Test Method for Volatile~~

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- ~~Content of a Coating, 2369-87: Standard test method for volatile content of a coating. This test method is incorporated by reference in Section 218.112 of this Part.~~
- iii) ~~ASTM-D D3792-16 (2002) Standard Test Method for Water Content of Water Reducible Paints by Direct Injection Into a Gas Chromatograph, 3792-86: Standard test method for water content of water reducible paints by direct injection into a gas chromatograph. This test method is incorporated by reference in Section 218.112 of this Part.~~
- iv) ~~ASTM-D D4017-22 Standard Test Method for Waer in Paints and Paint Material by Karl Fischer Method, 4017-81 (1987): Standard test method for water content in paints and paint materials by the Karl Fischer method. This test method is incorporated by reference in Section 218.112 of this Part.~~
- v) ~~ASTM-D D4457-02 (2014) Standard Test Method for Determination of Dichloromethane and 1,1,1, Trichloroethane in Paints and Coatings by Direct Injection into a Gas Chromatograph, 4457-85: Standard test method for determination of dichloromethane and 1,1,1, trichloroethane in paints and coatings by direct injection into a gas chromatograph. (The procedure delineated above can be used to develop protocols for any compounds specifically exempted from the definition of VOM.) This test method is incorporated by reference in Section 218.112 of this Part. This method can be used to develop protocols for any compounds specifically exempted from the definition of VOM.~~
- vi) ~~ASTM-D D2697-22 Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings, 2697-86: Standard test method for volume non volatile matter in clear or pigmented coatings. This test method is incorporated by reference in Section 218.112 of this Part.~~
- vii) ~~ASTM-D 3980-87: Standard practice for interlaboratory testing of paint and related materials. This practice is~~

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~~incorporated by reference in Section 218.112 of this Part.~~

~~viiiviii)~~ ~~ASTM-E E180-03 Standard Practice for Determining the Precision Data of ASTM Methods for Analysis of and Testing of Industrial Chemicals, 180-85: Standard practice for determining the precision data of ASTM methods for analysis of and testing of industrial chemicals. This practice is incorporated by reference in Section 218.112 of this Part.~~

~~viiiix)~~ ~~ASTM-D D2372-85 (2022) Standard Practice for Separation of Vehicle from Solvent-Reducible Paints, :- Standard method of separation of vehicle from solvent-reducible paints. This method is incorporated by reference in Section 218.112 of this Part.~~

D) ~~An Use of~~ an adaptation to any of the analytical methods ~~specified in subsections (a)(2)(A), (B), and (C) of this Section~~ may not be used unless approved by the Agency and USEPA. An owner or operator must submit sufficient documentation for the Agency and USEPA to find that the analytical methods ~~specified in subsections (a)(2)(A), (B), and (C) of this Section~~ will yield inaccurate results and that the proposed adaptation is appropriate.

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3) Calculations: Calculations ~~to determine~~~~for determining~~ the VOM content, water content, ~~and the~~ content of any compounds ~~which are~~ specifically exempted from the definition of VOM of coatings, inks, and fountain solutions as applied ~~must~~~~shall~~ follow the guidance ~~provided in the~~ following documents:

A) "A ~~Guideline~~~~Guide~~ for Surface Coating Calculation", ~~July 1986,~~ EPA-340/1-86-016, incorporated by reference in Section 218.112-~~of this Part.~~

B) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink and Other Coatings" (revised June 1986), EPA-450/3-84-019, incorporated by reference in Section 218.112-~~of this Part.~~

C) "A Guide for Graphic Arts Calculations", August 1988, EPA-

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340/1-88-003, incorporated by reference in Section 218.112-~~of this Part.~~

b) Automobile or Light-Duty Truck Test Protocol

- 1) The protocol for testing, including determining the transfer efficiency of coating applicators, at primer surfacer operations and topcoat operations at an automobile or light-duty truck assembly source ~~must~~shall follow the procedures in the following:

A) ~~Before~~Prior to May 1, 2012: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations" ("topcoat protocol"), December 1988, EPA-450/3-88-018, incorporated by reference in Section 218.112-~~of this Part.~~

B) On and after May 1, 2012: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations" ("topcoat protocol"), September 2008, EPA-453/R-08-002, incorporated by reference in Section 218.112-~~of this Part.~~

- 2) ~~Before~~Prior to testing ~~under~~pursuant to the applicable topcoat protocol, the owner or operator of a coating operation subject to the topcoat or primer surfacer limit in Section ~~218.204(a)(2), (a)(3), or (a)(5)~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(E) ~~shall~~must submit a detailed testing proposal specifying the method by which testing will be conducted and how compliance will be demonstrated consistent with the applicable topcoat protocol. The proposal ~~must~~shall include: ~~at a minimum,~~

A) ~~A~~a comprehensive plan (including a rationale) ~~to determine for determining~~ the transfer efficiency at each booth through ~~the use of~~ in-plant or pilot testing;

B) ~~The~~the selection of coatings to be tested (~~to determine for the purpose of determining~~ transfer efficiency), including the rationale for coating groupings;

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- C) ~~The~~ the method ~~to determine~~for determining the analytic VOM content of as applied coatings and the formulation solvent content of as applied coatings; ~~and~~
- D) ~~A~~ a description of the records of coating VOM content as applied and coating's usage that will be kept to demonstrate compliance.
- 3) ~~When~~Upon approval of the proposal by the Agency and USEPA approve the proposal, the compliance demonstration for a coating line may proceed.
- c) Capture System Efficiency Test Protocols
- 1) Applicability. ~~Subsection~~The requirements of subsection (c)(2) mustof this Section shall apply to all VOM emitting process emission units employing capture equipment (e.g., hoods, ducts), except those ~~eases noted~~in this subsection (c)(1).
- A) If an emission unit is equipped with ~~(or uses)~~ a permanent total enclosure (PTE) that meets Agency and USEPA specifications, ~~and which~~ directs all VOM to a control device, then the emission unit is exempted from the requirements ~~described~~in subsection (c)(2) ~~of this Section~~. The Agency and USEPA specifications to determine whether a structure is considered a PTE are ~~given~~in Method 204 of ~~appendix M of 40 CFR 51~~. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~. In this instance, the capture efficiency is assumed to be 100%~~100 percent~~, and the emission unit is still required to measure control efficiency using appropriate test methods ~~as specified in subsection (d) of this Section~~.
- B) If an emission unit is equipped with ~~(or uses)~~ a control device designed to collect and recover VOM (e.g., carbon adsorber), an explicit measurement of capture efficiency is not necessary ~~if provided that~~ the conditions given below in this subsection (c)(1)(B) are met. The overall control of the system can be determined by directly comparing the input liquid VOM to the recovered liquid VOM. The general procedure for use in this situation is ~~given~~in 40 CFR 60.433, incorporated by reference in

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Section 218.112 ~~of this Part~~, with the following additional restrictions:

- i) Unless otherwise specified in subsection (c)(1)(B)(ii), the owner or operator ~~must~~shall obtain data each operating day for the solvent usage and solvent recovery to permit ~~determining the determination of~~ the solvent recovery efficiency of the system each operating day using a 7-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent ~~previous~~prior 6 operating days to the total solvent usage for the same 7-day period used for the recovered solvent, rather than a 30-day weighted average ~~under as given in~~ 40 CFR 60.433, incorporated by reference at Section 218.112 ~~of this Part~~. This ratio ~~must~~shall be expressed as a percentage. The ratio ~~must~~shall be computed within 72 hours ~~after following~~ each 7-day period. A source that believes that the 7-day rolling period is not appropriate may use an ~~alternative~~alternative multi-day rolling period ~~of up to not to exceed~~ 30 days, with the approval of the Agency and USEPA. In addition, ~~the source must meet~~ the criteria in subsection (c)(1)(B)(iii) or ~~subsection (c)(1)(B)(iv) must be met~~.
- ii) The owner or operator of the source engaged in printing located at 350 ~~East 22nd E. 22nd~~ Street, Chicago, ~~Illinois~~, ~~must~~shall obtain data each operating day for the solvent usage and solvent recovery to permit ~~determining the determination of~~ the solvent recovery efficiency of the system each operating day using a 14-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent ~~previous~~prior 13 operating days to the total solvent usage for the same 14-day period used for the recovered solvent, rather than a 30-day weighted average ~~under as given in~~ 40 CFR 60.433, incorporated by reference in Section 218.112 ~~of this Part~~. This ratio ~~must~~shall be expressed as a percentage. The ratio ~~must~~shall be computed within 17 days ~~after following~~ each 14-day

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period. In addition, the source must meet the criteria in subsection (c)(1)(B)(iii) or ~~subsection (c)(1)(B)(iv) must be met.~~

- iii) The solvent recovery system (i.e., capture and control system) must be dedicated to a single coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard, ~~or~~
- iv) If the solvent recovery system controls more than one coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard, the overall control (i.e., the total recovered VOM divided by the sum of liquid VOM input from all lines and other activities venting to the control system) must meet or exceed the most stringent standard applicable to any line or other discrete activity venting to the control system.

2) Capture Efficiency Protocols.

The capture efficiency of an emission unit ~~must~~shall be measured using one of the protocols ~~in this subsection (c)(2) given below.~~ Appropriate test methods to be ~~used~~utilized in each of the capture efficiency protocols are ~~described in appendix M of 40 CFR 51.~~Appendix M, incorporated by reference at Section 218.112 ~~of this Part.~~ Any error margin associated with a test method or protocol may not be incorporated into the results of a capture efficiency test. If these techniques are not suitable for a particular process, then an alternative capture efficiency protocol may be used under ~~pursuant to the provisions of~~ Section 218.108(b) ~~of this Part.~~

- A) Gas/gas method using temporary total enclosure (TTE). The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are ~~given in~~ Method 204 of ~~appendix M of 40 CFR 51.~~Appendix M, incorporated by reference in Section 218.112 ~~of this Part.~~ The capture efficiency equation to be used for this protocol is:

$$CE = \frac{G_w}{G_w + F_w}$$

where:

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- CE = Capture efficiency, decimal fraction;
G_w = Mass of VOM captured and delivered to control device using a TTE;
F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204B or 204C ~~contained in appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ is used to obtain G_w. Method 204D in ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ is used to obtain F_w.

- B) Liquid/gas method using TTE. The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are ~~given in Method 204 of appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part.~~ The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_w}{L}$$

where:

- CE = Capture efficiency, decimal fraction;
L = Mass of liquid VOM input to process emission unit;
F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204A or 204F ~~contained in appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ is used to obtain L. Method 204 D in ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ is used to obtain F_w.

- C) Gas/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ and in which "F_B" and "G" are measured while operating only the

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affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{G}{G + F_B}$$

where:

- CE = Capture efficiency, decimal fraction;
- G = Mass of VOM captured and delivered to control device;
- F_B = Mass of uncaptured VOM that escapes from building enclosure.

Method 204B or 204C ~~contained in appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112, ~~of this Part~~ is used to obtain G. Method 204E in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112, ~~of this Part~~ is used to obtain F_B.

- D) Liquid/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, and in which "F_B" and "L" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_B}{L}$$

where:

- CE = Capture efficiency, decimal fraction;
- L = Mass of liquid VOM input to process emission unit;
- F_B = Mass of uncaptured VOM that escapes from building enclosure.

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Method 204A or 204F ~~contained in appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part~~ is used to obtain L. Method 204E in ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part~~ is used to obtain F_B.

- E) Mass balance using Data Quality Objective (DQO) or Lower Confidence Limit (LCL) protocol. For a liquid/gas input where an owner or operator is using the DQO/LCL protocol and not using an enclosure as described in Method 204 of ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part~~, the VOM content of the liquid input (L) must be determined using Method 204A or 204F in ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part~~. The VOM content of the captured gas stream (G) to the control device must be determined using Method 204B or 204C in ~~appendix M of 40 CFR 51. Appendix M,~~ incorporated by reference in Section 218.112 ~~of this Part~~. The results of capture efficiency calculations (G/L) must satisfy the DQO or LCL statistical analysis protocol ~~as described in Section 3 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 218.112 of this Part.~~ Where capture efficiency testing is done to determine emission reductions for ~~the purpose of~~ establishing emission credits for offsets, shutdowns, and trading, the LCL protocol cannot be used for these applications. In enforcement cases, the LCL protocol cannot confirm non-compliance; capture efficiency must be determined using a protocol under subsection (c)(2)(A), (B), (C), or (D) ~~of this Section~~, the DQO protocol of this subsection (c)(2)(E), or an alternative protocol ~~underpursuant to~~ Section 218.108(b) ~~of this Part~~.

BOARD NOTE: Where LCL was used in testing emission units that are the subject of later requests for establishing emission credits for offsets, shutdowns, and trading, prior LCL results may not be relied upon to determine the appropriate amount of credits. Instead, to establish the appropriate amount of credits, additional testing may be required that would satisfy the protocol of Section 218.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section

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218.105(c)(2)(E), or an alternative protocol ~~underpursuant to~~
Section 218.108(b) ~~of this Part~~.

- 3) Simultaneous testing of multiple lines or emission units with a common control device. If an owner or operator has multiple lines sharing a common control device, the capture efficiency of the lines may be tested simultaneously, subject to the following provisions:
 - A) Multiple line testing must meet the criteria of Section 4 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 218.112 ~~of this Part~~;
 - B) The most stringent capture efficiency required for any individual line or unit must be met by the aggregate of lines or units; and
 - C) Testing of all the lines of emission units must be performed with the same capture efficiency test protocol.
- 4) Recordkeeping and Reporting
 - A) All owners or operators ~~to which affected by~~ this subsection applies must maintain on file a copy of the capture efficiency protocol submitted to the Agency and ~~the USEPA on file~~. All results of the appropriate test methods and capture efficiency protocols must be reported to the Agency within 60 days after the test date. A copy of the results must be kept on file with the source for ~~threeca period of 3~~ years.
 - B) If any changes are made to capture or control equipment, then the source ~~mustis required to~~ notify the Agency and ~~the~~ USEPA of these changes, and a new test may be required by the Agency or ~~the~~ USEPA.
 - C) The source must notify the Agency 30 days ~~beforeprior to~~ performing any capture efficiency or control test. At that time, the source must notify the Agency which capture efficiency protocol and control device test methods will be used. Notification of the actual date and expected time of testing must be submitted at least fivea minimum of 5 working days ~~beforeprior to~~ the actual date of the test. The Agency may at its discretion accept notification with

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shorter advance notice ~~if those provided that such~~ arrangements do not interfere with the Agency's ability to review the protocol or observe testing.

- D) Sources ~~using~~utilizing a PTE must demonstrate that this enclosure meets the requirements ~~of given in~~ Method 204 in ~~appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~, for a PTE during any testing of their control device.
- E) Sources ~~using~~utilizing a TTE must demonstrate that their TTE meets the requirements ~~of given in~~ Method 204 in ~~appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~, for a TTE during testing of their control device. The source must also provide documentation that the quality assurance criteria for a TTE have been achieved.
- F) Any source ~~using~~utilizing the DQO or LCL protocol must submit the following information to the Agency with each test report:
- i) A copy of all test methods, Quality Assurance/Quality Control procedures, and calibration procedures to be used from those ~~described in appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~;
 - ii) A table with information on each sample taken, including the sample identification and the VOM content of the sample;
 - iii) The quantity of material used for each test run;
 - iv) The quantity of captured VOM for each test run;
 - v) The capture efficiency calculations and results for each test run;
 - vi) The DQO ~~or and/or~~ LCL calculations ~~or both~~ and results; and

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- vii) The Quality Assurance/Quality Control results, including how often the instruments were calibrated, the calibration results, and the calibration gases used.
- d) Control Device Efficiency Testing and Monitoring
 - 1) The control device efficiency ~~must~~shall be determined by simultaneously measuring the inlet and outlet gas phase VOM concentrations and gas volumetric flow rates in ~~compliance~~accordance with the gas phase test methods ~~specified in subsection (f) of this Section.~~
 - 2) An owner or operator:
 - A) That uses an afterburner or carbon adsorber to comply with any ~~section~~Section of Part 218 ~~must~~shall use Agency and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use, except ~~under as provided in subsection (d)(3) of this Section.~~ The continuous monitoring equipment must monitor the following parameters:
 - i) For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.
 - ii) For each afterburner which has a catalyst bed, commonly known as a catalytic afterburner, the temperature rise across each catalytic afterburner bed or VOM concentration of exhaust.
 - iii) For each carbon adsorber, the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
 - B) Must install, calibrate, operate, and maintain, in compliance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder, or computer, ~~with having~~ an accuracy of $\pm 1\%$ ~~percent~~ of the temperature measured in degrees Celsius or $\pm 0.5^{\circ}\text{C}$ ~~0.5^{\circ}\text{C}~~, whichever is greater.

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- C) Of an automobile or light-duty truck primer surfacer operation or topcoat operation subject to subsection (d)(2)(A), ~~must~~shall keep a separate record of the following data for the control devices, unless alternative provisions are ~~set forth in a permit~~ underpursuant to Title V of the ~~CAA~~Clean Air Act:
- i) For thermal afterburners for which combustion chamber temperature is monitored, all 3-hour periods of operation in which the average combustion temperature was more than ~~28 ° C (50 ° F)~~28°C (50°F) below the average combustion temperature measured during the most recent performance test that demonstrated that the operation was in compliance.
 - ii) For catalytic afterburners for which temperature rise is monitored, all 3-hour periods of operation in which the average gas temperature before the catalyst bed is more than ~~28 ° C (50 ° F)~~28°C (50°F) below the average gas temperature immediately before the catalyst bed measured during the most recent performance test that demonstrated that the operation was in compliance.
 - iii) For catalytic afterburners and carbon adsorbers for which VOM concentration is monitored, all 3-hour periods of operation during which the average VOM concentration or the reading of organics in the exhaust gases is more than ~~20%20 percent~~ greater than the average exhaust gas concentration or reading measured by the organic monitoring device during the most recent determination of the recovery efficiency of a carbon adsorber or performance test for a catalytic afterburner ~~that, which determination or test~~ demonstrated that the operation was in compliance.
- 3) An owner or operator that uses a carbon adsorber to comply with Section 218.401 ~~of this Part~~ may operate the adsorber during periods of monitoring equipment malfunction ~~if, provided that~~:
- A) The owner or operator notifies the Agency in writing ~~the Agency~~ within 10 days after the conclusion of any ~~72-hour~~72 hour period

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during which the adsorber is operated and the associated monitoring equipment is not operational; of ~~the~~~~such~~ monitoring equipment failure and provides the duration of the malfunction, a description of the repairs made to the equipment, and the total to date of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational;

- B) During ~~the~~~~such~~ period of malfunction, the adsorber is operated using timed sequences as the basis for periodic regeneration of the adsorber;
- C) The period of ~~such~~ adsorber operation does not exceed 360 hours in any calendar year without the approval of the Agency and USEPA; and
- D) The total of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational ~~must~~~~shall~~ be reported, in writing, to the Agency and USEPA by January 31 of the ~~next~~~~following~~ calendar year.

e) Overall Efficiency

- 1) The overall efficiency of the emission control system ~~must~~~~shall~~ be determined as the product of the capture system efficiency and the control device efficiency or by the liquid/liquid test protocol ~~as specified in 40 CFR 60.433, incorporated by reference in Section 218.112 of this Part, (and revised by subsection (c)(1)(B) of this Section)~~ for each solvent recovery system. ~~When~~~~In those cases in which~~ the overall efficiency is being determined for an entire line, the capture efficiency used to calculate the product of the capture and control efficiency is the total capture efficiency over the entire line.
- 2) For coating lines which are both chosen by the owner or operator to comply with Section 218.207(c), (d), (e), (f), (g), (m), or (n) ~~of this Part~~ by the alternative in Section 218.207(b)(2) ~~of this Part~~ and meet the criteria allowing them to comply with Section 218.207 ~~of this Part~~ instead of Section 218.204 ~~of this Part~~, the overall efficiency of the capture system and control device, as determined by the test methods and procedures

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~~specified in subsections (c), (d), and (e)(1) must of this Section, shall be at least no less than~~ the equivalent overall efficiency ~~which shall be~~ calculated by the following equation:

$$E = \frac{VOM_a - VOM_l}{VOM_a} \times 100$$

where:

E = Equivalent overall efficiency of the capture system and control device as a percentage;

VOM_a = Actual VOM content of a coating, or the daily-weighted average VOM content of two or more coatings (if more than one coating is used), as applied to the subject coating line as determined by the applicable test methods and procedures ~~specified in subsection (a) of this Section~~ in units of kg ~~VOM/lVOM/l~~ (lb VOM/gal) of coating solids as applied;

VOM_l = The VOM emission limit ~~specified in Section 218.204 or 218.205 of this Part~~ in units of kg ~~VOM/lVOM/l~~ (lb VOM/gal) of coating solids as applied.

- f) ~~VOM~~~~Volatile Organic Material~~ Gas Phase Source Test Methods. The methods in 40 CFR ~~60~~~~Appendix 60, appendix~~ A, incorporated by reference in Section 218.112, ~~must of this Part delineated below shall~~ be used to determine control device efficiencies.

- 1) 40 CFR ~~60~~~~Appendix A-6, appendix A~~, Method 18 ~~and Appendix A-7, Method 25 or 25A~~, incorporated by reference in Section 218.112, ~~of this Part~~ as appropriate to the conditions at the site, ~~must shall~~ be used to determine VOM concentration. Method selection ~~must shall~~ be based on ~~consideringeconsideration of~~ the diversity of organic species present and their total concentration and ~~on consideration of~~ the potential presence of interfering gases. Except as indicated in subsections (f)(1)(A) and (B)-~~below~~, the test ~~must shall~~ consist of three separate runs, each lasting a minimum of 60 minutes, unless the Agency and the USEPA determine that process variables dictate shorter sampling times.

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- A) When the method is to be used to determine the efficiency of a carbon adsorption system with a common exhaust stack for all the individual adsorber vessels, the test ~~must~~shall consist of three separate runs, each coinciding with one or more complete sequences through the adsorption cycles of all the individual absorber vessels.
- B) When the method is to be used to determine the efficiency of a carbon adsorption system with individual exhaust stacks for each absorber vessel, each adsorber vessel ~~must~~shall be tested individually. The test for each absorber vessel ~~must~~shall consist of three separate runs. Each run ~~must~~shall coincide with one or more complete adsorption cycles.
- 2) 40 CFR 60.~~Appendix A-1, appendix A~~, Method 1 or 1A, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used for sample and velocity traverses.
- 3) 40 CFR 60.~~Appendix A-1, appendix A~~, Method 2, 2A, 2C₁ or 2D, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used for velocity and volumetric flow rates.
- 4) 40 CFR 60.~~Appendix A-2, appendix A~~, Method 3, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used for gas analysis.
- 5) 40 CFR 60.~~Appendix A-3, appendix A~~, Method 4, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used for stack gas moisture.
- 6) 40 CFR 60.~~Appendix A-1, appendix A~~, Methods 2, 2A, 2C, and 2D, Appendix A-2, Method 3, and Appendix A-3, Method 4, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be performed, as applicable, at least twice during each test run.
- 7) ~~An Use of an~~ adaptation to any of the test methods ~~specified~~ in subsections (f)(1), (2), (3), (4), (5), and (6) ~~of this Section~~ may not be used unless approved by the Agency and ~~the~~ USEPA on a case by case basis. An owner or operator must submit sufficient documentation for the Agency

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and ~~the~~ USEPA to find that the test methods ~~specified~~ in subsections (f)(1), (2), (3), (4), (5), and (6) of this Section will yield inaccurate results and that the proposed adaptation is appropriate.

- g) Leak Detection Methods for ~~VOM, Volatile Organic Material~~. Owners or operators required by this Part to carry out a leak detection monitoring program ~~must~~ comply with the following requirements:

1) Leak Detection Monitoring

- A) Monitoring ~~must~~ comply with 40 CFR 60, ~~Appendix A-7, appendix A~~, Method 21, incorporated by reference in Section 218.112 ~~of this Part~~.
- B) The detection instrument ~~must~~ meet the performance criteria of Method 21.
- C) The instrument ~~must~~ be calibrated before use on each day of its use by the methods ~~specified~~ in Method 21.
- D) Calibration gases ~~must~~ be:
- i) Zero air (less than 10 ppm of hydrocarbon in air); and
 - ii) A mixture of methane or n-hexane and air at a concentration of approximately, but ~~at least~~ ~~no less than~~, 10,000 ppm methane or n-hexane.
- E) The instrument probe ~~must~~ be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.

- 2) When equipment is tested for compliance with no detectable emissions as required, the test ~~must~~ comply with the following requirements:

- A) The requirements of subsections (g)(1)(A) through (g)(1)(E) ~~must of this Section shall~~ apply.
- B) The background level ~~must~~ be determined ~~under as set forth in~~ Method 21.

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- 3) Leak detection tests ~~must~~shall be performed consistent with:
- A) "APTI Course SI 417 ~~Controlling~~ Volatile Organic Compound Emissions from Leaking Process Equipment," EPA-450/2-82-015, incorporated by reference in Section 218.112 ~~of this Part~~.
 - B) "Portable Instrument User's Manual for Monitoring VOC Sources," EPA-340/1-86-015, incorporated by reference in Section 218.112 ~~of this Part~~.
 - C) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOC and VHAP," EPA-450/3-88-010, incorporated by reference in Section 218.112 ~~of this Part~~.
 - D) "Petroleum Refinery Enforcement Manual," EPA-340/1-80-008, incorporated by reference in Section 218.112 ~~of this Part~~.
- h) Bulk Gasoline Delivery System Test Protocol
- 1) The method ~~to determine~~for determining the emissions of gasoline from a vapor recovery system ~~is at~~are delineated in 40 CFR 60.50360, Subpart ~~XX, section 60.503~~, incorporated by reference in Section 218.112 ~~of this Part~~.
 - 2) Other tests ~~must~~shall be performed consistent with:
 - A) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D," EPA-340/1-80-012, incorporated by reference in Section 218.112 ~~of this Part~~.
 - B) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A," EPA-450/2-77-026, incorporated by reference in Section 218.112 ~~of this Part~~.
- i) ~~Despite~~Notwithstanding other requirements of this Part, upon request of the Agency where it is necessary to demonstrate compliance, an owner or operator of an emission unit ~~which is~~ subject to this Part ~~must~~shall, at ~~its~~his own expense, conduct tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specific~~ in this Part. Nothing in this Section ~~limits~~shall limit

Commented [SKA16]: "controlling" is on file. Please strike the word and then add capitalization

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~~USEPA's~~ the authority ~~of the USEPA under~~ pursuant to the ~~CAA Clean Air Act~~, as amended, to require testing.

j) Stage II Gasoline Vapor Recovery Test Methods. _

The methods ~~to determine~~ ~~for determining~~ the acceptable performance of Stage II Gasoline Vapor Recovery System are ~~delineated~~ in "Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities," ~~found at~~ EPA 450/3-91-022b and incorporated by reference in Section 218.112 ~~of this Part~~. ~~These~~ Specifically, the test methods are ~~as follows~~:

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- 1) Dynamic Backpressure Test, ~~is a test procedure~~ used to determine the pressure drop (flow resistance) through balance vapor collection and control systems (including nozzles, vapor hoses, swivels, dispenser piping, and underground piping) at prescribed flow rates.
- 2) Pressure Decay/Leak Test, ~~is a test procedure~~ used to quantify the vapor tightness of a vapor collection and control system installed at gasoline dispensing facilities.
- 3) Liquid Blockage Test, ~~is a test procedure~~ used to detect low points in any vapor collection and control system where condensate may accumulate.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.106 Compliance Dates

- a) Except as otherwise provided in this Section or ~~as otherwise provided in~~ a specific Subpart of this Part, compliance with ~~the requirements of~~ all rules is required by July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage, Kane, Lake, McHenry, or Will Counties, consistent with the appropriate provisions of Section 218.103 ~~of this Section~~.
- b) Except as otherwise provided in this Section or ~~as otherwise provided in~~ a specific Subpart of this Part, compliance with ~~the requirements of~~ this Part is required by November 15, 1993, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County, or in Oswego Township in Kendall County.
- c) All emission units which meet the applicability requirements of Sections

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~~218.402(a)~~~~218.402(a)(2)~~, 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b), 218.940(b), 218.960(b), or 218.980(b) ~~of this Part~~, including emission units at sources ~~which are~~ excluded from the applicability criteria of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) ~~of this Part~~ by virtue of permit conditions or other enforceable means, must comply with ~~the requirements of~~ Subparts H, Z, AA, CC, DD, PP, QQ, RR, or TT ~~of this Part~~, respectively, by March 15, 1995. Any owner or operator of an emission unit which has already met the applicability requirements of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), ~~or~~ 218.980(a) ~~of this Part on or~~ by the effective date of this subsection is required to comply with all compliance dates or schedules ~~found in~~ Section~~Sections~~ 218.106(a) or 218.106(b), as applicable.

- d) Any owner or operator of a source with an emission unit subject to ~~the requirements of~~ Section 218.204(m)(2) or (m)(3) ~~of this Part~~ must comply with those requirements by March 25, 1995.
- e) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(c)(1), 218.204(g)(1)~~218.204(e)(2), 218.204(g)(2), or 218.204(h)(1)~~ must~~218.204(h)(2) of this Part shall~~ comply with the applicable requirements in the applicable subsections ~~and, as well as~~ all applicable requirements in Sections 218.205 through 218.214 and 218.218, by May 1, 2012.
- f) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(p) ~~must of this Part shall~~ comply with the requirements in Section 218.204(p) ~~and, as well as~~ all applicable requirements in Sections 218.205 through 218.211, 218.214, and 218.217 by August 1, 2010.
- g) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(a)~~218.204(a)(2)~~ or 218.204(q) ~~must of this Part shall~~ comply with the applicable requirements in those Sections ~~and, as well as~~ all applicable requirements in Sections 218.205 through 218.214 and 218.219, by May 1, 2012.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.107 Operating~~Operation of~~ Afterburners

~~Operating~~The operation of any natural gas fired afterburner and capture system used to comply with this Part is not required ~~from during the period of~~ November 1 of any year to April 1 of the ~~next following~~ year, if operating the~~provided that the operation of such~~ devices is not required for

Commented [SKA18]: "shall" is on file here. If the agency wants to change the word, it must use track changes.

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~~purposes of~~ occupational safety or health, or ~~to for the~~ control ~~of~~ toxic substances, odor nuisances, or other regulated pollutants.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.108 Exemptions, Variations, and Alternative Means of Control or Compliance Determinations

~~Despite~~ Notwithstanding the provisions of any other Sections of this Part:

- a) Any exemptions, variations, or alternatives adopted by the Board ~~underpursuant to~~ Section 28, 28.1, or 35 of the Act to the control requirements, emission limitations, or test methods ~~set forth~~ in this Part ~~are~~ shall be effective only when approved by ~~the~~ USEPA as a SIP revision.
- b) Any equivalent alternative control plan, equivalent device, or other equivalent alternative practice authorized by the Agency where this Part provides for ~~the such~~ alternative or equivalent practice or equivalent variations or alterations to test methods approved by the Agency ~~is~~ shall be effective only when included in a federally enforceable permit or approved as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.109 Vapor Pressure of Volatile Organic Liquids

- a) If the VOL consists of only a single compound, the vapor pressure ~~must~~ shall be determined by ASTM Method ~~D2879-18, D2879-86~~ (incorporated by reference in Section 218.112 of this Part,) or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried, and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)(1984); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)(1986-87); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998)(1985), each incorporated by reference in Section 218.112.
- b) If the VOL is a mixture, the vapor pressure ~~must~~ shall be determined by ASTM Method ~~D2879-18, D2879-86~~ (incorporated by reference in Section 218.112,) or by the following equation:

n

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Commented [SKA20]: Looks like this should be part of the equation below.

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$$P_{vol} = \sum_{i=1} P_i X_i$$

where:

P_{vol} = Total vapor pressure of the mixture;
 n = Number of components in the mixture;
 i = Subscript denoting an individual component;
 P_i = Vapor pressure of a component determined in
compliance with subsection (a) of this Section;
 X_i = Mole fraction of the component in the total mixture.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.110 Vapor Pressure of Organic Material or Solvent

- a) If the organic material or solvent consists of only a single compound, the vapor pressure ~~must~~shall be determined by ASTM Method ~~D2879-18, D2879-86~~ (incorporated by reference in Section 218.112 of this Part.) or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Friedl and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)(1984); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)(1986-87); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998)(1985), each incorporated by reference in Section 218.112.
- b) If the organic material or solvent is in a mixture made up of both organic material compounds and compounds which are not organic material, the vapor pressure ~~must~~shall be determined by the following equation:

$$P_{om} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

Commented [BW21]: Remove extra space before each example in this section

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where:

P_{om} = Total vapor pressure of the portion of the mixture which is composed of organic material;

n = Number of organic material components in the mixture;

i = Subscript denoting an individual component;

P_i = Vapor pressure of an organic material component determined in compliance~~accordance~~ with subsection (a) ~~of this Section~~;

X_i = Mole fraction of the organic material component of the total organic mixture.

- c) If the organic material or solvent is in a mixture made up of only organic material compounds, the vapor pressure must~~shall~~ be determined by ASTM Method D2879-18~~D2879-86~~ (incorporated by reference in Section 218.112, ~~of this Part~~) or by the ~~above~~ equation in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.111 Vapor Pressure of Volatile Organic Material

- a) If the VOM consists of only a single compound, the vapor pressure must~~shall~~ be determined by ASTM Method D2879-18~~D2879-86~~ (incorporated by reference in Section 218.112, ~~of this Part~~) or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried, and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)~~(1984)~~; CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)~~(1986-87)~~; and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998)~~(1985)~~, each incorporated by reference in Section 218.112.
- b) If the VOM is in a mixture made up of both VOM compounds and compounds which are not VOM, the vapor pressure must~~shall~~ be determined by the following equation:

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$$P_{\text{vom}} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

where:

P_{vom} = Total vapor pressure of the portion of the mixture which is composed of VOM;

n = Number of VOM components in the mixture;

i = Subscript denoting an individual component;

P_i = Vapor pressure of a VOM component determined in compliance ~~accordance~~ with subsection (a) ~~of this Section;~~

X_i = Mole fraction of the VOM component of the total organic mixture.

- c) If the VOM is in a mixture made up of only VOM compounds, the vapor pressure ~~must~~shall be determined by ASTM Method D2879-18, ~~D2879-86~~ (incorporated by reference in Section 218.112 of this Part.) ~~or by the above equation~~ in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.112 Incorporations by Reference

The following materials are incorporated by reference and do not contain any subsequent additions or amendments.

- a) American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken PA 19428-2959 ~~19428-9555~~;

- 1) ASTM ~~D~~ D2879-18 Standard Test Method for Vapor Pressure – Temperature Relationships and Initial Decomposition Temperature of Liquids by Isoteniscope ~~2879-86~~

Commented [BW24]: See above comment

Commented [SKA25]: Some of these incorporations are missing a date. Please add a date

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- 2) ASTM-D D323-20a Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)~~323-08~~
- 3) ASTM-D D86-23a Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure~~86-82~~
- 4) ASTM-D D369-84 (2002) Standard Test Method for Specific Gravity of Creosote Fractions and Residue~~369-69 (1971)~~
- 5) ASTM-D D396-24 Standard Specification for Fuel Oils~~396-69~~
- 6) ASTM-D D2880-23 Standard Specification for Gas Turbine Fuel Oils~~2880-71~~
- 7) ASTM-D D975-24 Standard Specification for Diesel Fuel~~975-68~~
- 8) ASTM-D D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigmented Coatings~~3925-81 (1985)~~
- 9) ASTM-E E300-03 (2022) Standard Practice for Sampling Industrial Chemicals~~300-86~~
- 10) ASTM-D D1475-13 (2020) Standard Test Method for Density of Liquid Coatings, Inks, and Related Products~~1475-85~~
- 11) ASTM-D D2369-24 Standard Test Method for Volatile Content of Coatings~~2369-87~~
- 12) ASTM-D D3792-16 (2022) Standard Test Method for Water Content of Coatings by Direct Injection Into a Gas Chromatograph~~3792-86~~
- 13) ASTM-D D4017-22 Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method~~4017-81 (1987)~~
- 14) ASTM-D D4457-02 (2014) Standard Test Method for Determination of Dichloromethane and 1,1,1-Trichloroethane in Paints and Coatings by Direct Injection Into a Gas Chromatograph~~4457-85~~
- 15) ASTM-D D2697-22 Standard Test Method for Volume Nonvolatile Matter

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in Clear of Pigmented Coatings~~2697-86~~

~~16)~~ ~~ASTM-D 3980-87-~~

~~1647)~~ ~~ASTM-E E180-03 Standard Practice for Determining the Precision of~~
~~ASTM Methods for Analysis and Testing of Industrial and Specialty~~
~~Chemicals~~~~180-85~~

~~1748)~~ ~~ASTM-D D2372-85 (2022) Standard Practice for Separation of Vehicle~~
~~from Solvent-Reducible Paints~~

~~1849)~~ ~~ASTM-D D97-17b (2022) Standard Test Method for Pour Point of~~
~~Petroleum Products~~~~97-66~~

~~1920)~~ ~~ASTM-E E168-16 (2023) Standard Practices for General Techniques of~~
~~Infrared Quantitative Analysis~~~~168-67 (1977)~~

~~2024)~~ ~~ASTM-E E169-16 (2022) Standard Practices for General Techniques of~~
~~Ultraviolet-Visible Quantitative Analysis~~~~169-87~~

~~2122)~~ ~~ASTM-E E260-96 (2019) Standard Practice for Packed Column Gas~~
~~Chromatography~~~~260-94~~

~~23)~~ ~~ASTM-D 2504-83-~~

~~2224)~~ ~~ASTM-D D4809-18 Standard Test Method for Heat of Combustion of~~
~~Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method)~~~~2382-~~
~~83~~

~~2325)~~ ~~ASTM-D D2099-14 (2023) Standard Test Method for Dynamic Water~~
~~Resistance of Shoe Upper Leather by the Maeser Water Penetration~~
~~Tester~~~~2099-00~~

- b) Standard Industrial Classification Manual, published by Executive Office of the President, Office of Management and Budget, Washington, D.C., 1987.
- c) American Petroleum Institute Manual of Petroleum Measurement Standards
Chapter 19.2 Evaporative Loss from Floating-roof Tanks (August 2000)~~Bulletin-~~
~~2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980.~~

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d) 40 CFR 60 (July 1, ~~2024~~¹⁹⁹⁴), ~~including: and 40 CFR 60, appendix~~

1) Appendix A-1

A) Method 1 – Sample and Velocity Transverses for Stationary Sources

B) Method 1A – Sample and Velocity Transverses for Stationary Sources with Small Stacks or Ducts

C) Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)

D) Method 2A – Direct Measurement of Gas Volume Through Pipes and Small Ducts

E) Method 2C – Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)

F) Method 2D – Measurement of Gas Volume Flow Rates in Small Pipes and Ducts

2) Appendix A-2: Method 3 – Gas Analysis for the Determination of Dry Molecular Weights

3) Appendix A-3: Method 4 – Determination of Moisture Content in Stack Gases

4) Appendix A-6: Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

5) Appendix A-7A,

A) Method 21 – Determination of Volatile Organic Compound Leaks

B) Method 22 – Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares

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- [C\)](#) ~~Method 24 – Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings (57 FR 30654, July 10, 1992).~~
- [D\)](#) Method 24A – Determination of Volatile Matter Content and Density of Printing Inks and Related Coatings
- [E\)](#) Method 25 – Determination of Total Gaseous Nonmethane Organic Emissions as Carbon
- [F\)](#) Method 25A – Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
- [6\)](#) Appendix A-8: Method 27 – Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test

Commented [BW26]: Remove extra space here

- e) 40 CFR 61 (July 1, ~~2024~~1994).
- f) 40 CFR 50 (July 1, ~~2024~~1994).
- g) 40 CFR 51 (July 1, ~~2024~~1994) and 40 CFR ~~51~~.Appendix51, appendix M, Methods 204-204F (July 1, 1999).
- h) 40 CFR 52 (July 1, ~~2024~~1994).
- i) "A ~~Guideline~~Guide for Surface Coating Calculation", July 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016.
- j) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink and Other Coating" (revised June 1986), United States Environmental Protection Agency, Washington, D.C., EPA-450/3-84-019.
- k) "A ~~Guideline~~Guide for Graphic Arts Calculations", August 1988, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-88-003.
- l) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations", December 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-018.
- m) "Control of Volatile Organic Emissions from Manufacturing of Synthesized

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Pharmaceutical Products", December 1978, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-029.

- n) "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", December 1978, Appendix B, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-051.
- o) "Control of Volatile Organic Compound Emissions from Large Petroleum Dry Cleaners", September 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-82-009.
- p) "APTI Course SI417 Controlling Volatile Organic Compound Emissions from Leaking Process Equipment", 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-82-015.
- q) "Portable Instrument User's Manual for Monitoring VOC Sources", June 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-015.
- r) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOC and VHAP", October 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-010.
- s) "Petroleum Refinery Enforcement Manual", March 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-008.
- t) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D", 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-012.
- u) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A", December 1977, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-77-026.
- v) "Technical Guidance – Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities", November 1991, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-91-022b.
- w) California Air Resources Board, Compliance Division. Compliance Assistance Program: Gasoline Marketing and Distribution: Gasoline Facilities Phase I & II

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(October 1988, rev. November 1993) (CARB Manual).

- x) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 309-91, Determination of Static Volatile Emissions (February 1993).
- y) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 312-91, Determination of Percent Monomer in Polyester Resins (April 1996).
- z) "Guidelines for Determining Capture Efficiency", January 1995, Office of Air Quality Planning and Standards, United States Environmental Protection Agency, Research Triangle Park NC.
- aa) Memorandum "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions", February 1995, John S. Seitz, Director, Office of Air Quality Planning and Standards, United States Environmental Protection Agency.
- bb) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations", September 2008, United States Environmental Protection Agency, Washington, D.C., EPA-453/R-08-002.
- cc) 40 CFR 63, Subpart~~subpart~~ PPPP, Appendix~~appendix~~ A (July 1, 2024~~2008~~).
- dd) 46 CFR subchapter Q (October 1, 2024~~2007~~).
- ee) 46 CFR subchapter T (October 1, 2024~~2008~~).
- ff) Petroleum Equipment Institute, "Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP300-09 (2009).
- gg) Perry's Chemical Engineer's Handbook, 9th edition (2018), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.
- hh) CRC Handbook of Chemistry and Physics (2024), Chemical Rubber Publishing Company, Taylor & Francis, 2385 Executive Center Drive, Suite 320, Boca Raton, Florida 33431 (800) 634-7064.

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ii) Lange's Handbook of Chemistry, John A. Dean, ed. (1998), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.

Commented [BW27]: Remove extra space here

ji) The Vapor Pressure of Pure Substances; Boublik, T., V. Fried, and E. Hala (1973), Elsevier Scientific Publishing Company, 521 Fifth Avenue 7th Floor, New York, New York 10175 (212) 309-8100

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.113 Monitoring for Negligibly Reactive~~Negligibly Reactive~~ Compounds

The requirements of 35 Ill. Adm. Code 215.109, which allows the Agency to require testing and monitoring for negligibly reactive~~negligibly reactive~~ compound as a precondition to exempting them~~their exemption~~ from the definition of "volatile organic compound", applies~~shall apply~~ to owners and operators of sources subject to this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.114 Compliance with Permit Conditions

A~~No~~ person must not~~shall~~ violate any terms or conditions of a permit reflecting the requirements of this Part, operate any source except in compliance with its permit, or violate any other applicable requirements.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section 218.119 Applicability for VOL

a) The limitations of Section 218.120 applies~~of this Subpart shall apply~~ to all storage containers of volatile organic liquid (VOL) with a maximum true vapor pressure of 0.5 psia or greater in any stationary tank, reservoir, or other container of 151 cubic meters (40,000 gal) capacity or greater, except~~to vessels as provided below:~~

1) a) Vessels with a capacity greater than or equal to 40,000 gallons storing a liquid with a maximum true pressure of less than 0.5 psia;

2) b) Vessels of coke oven by-product plants;

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- ~~3)e)~~ Pressure vessels designed to operate in excess of 29.4 psia and without emissions to the atmosphere;
- ~~4)d)~~ Vessels permanently attached to mobile vehicles such as trucks, rail cars, barges, or ships;
- ~~5)e)~~ Vessels storing petroleum liquids; or
- ~~6)f)~~ Vessels used to store beverage alcohol.
- ~~b)e)~~ Vessels with storage capacity less than 40,000 gallons must comply with Section 218.129(f).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.120 Control Requirements for Storage Containers of VOL

- a) Every owner or operator storing VOL in a vessel of 40,000 gallons or greater with a maximum true vapor pressure equal to 0.75 psia but less than 11.1 psia must reduce VOM emissions from storage tanks, reservoirs, or other containers as follows:
 - 1) Each fixed roof tank must be equipped with an internal floating roof that meets the following specifications or that is equipped with a vapor control system that meets the specifications ~~contained in subsection (a)(4)-below:~~
 - A) The internal floating roof must rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof must be floating on the liquid surface at all times, except during initial fill and ~~during those intervals~~ when the storage vessel is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling must be continuous and must be accomplished as rapidly as possible.
 - B) Each internal floating roof must be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:

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- i) ~~A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).~~ A liquid-mounted seal ~~means,~~ which is a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank;
 - ii) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous; or
 - iii) A mechanical shoe seal, which is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- C) Each opening in a noncontact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.
- D) Each opening in the internal floating roof, except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains, ~~mustis to~~ be equipped with a cover or lid which ~~mustis to~~ be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid ~~mustshall~~ be equipped with a gasket. Covers on each access hatch and automatic gauge float well ~~mustshall~~ be bolted except when they are in use.
- E) Automatic bleeder vents ~~mustshall~~ be equipped with a gasket and ~~are to be~~ closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports.

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- F) Rim space vents ~~must~~shall be equipped with a gasket and ~~are to be~~ set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
 - G) Each penetration of the internal floating roof for ~~the purpose of~~ sampling ~~must~~shall be a sample well. The sample well ~~must~~shall have a slit fabric cover that covers at least ~~90%~~90 percent of the opening.
 - H) Each penetration of the internal floating roof that allows for passage of a ladder ~~must~~shall have a gasketed sliding cover.
- 2) During the next scheduled tank cleaning or before March 15, 2004, whichever comes first, each internal floating roof tank ~~must~~shall meet the specifications ~~set forth in~~ subsections (a)(1)(A) through (H) ~~above~~.
- 3) Each external floating roof tank ~~must~~shall meet the following specifications:
- A) Each external floating roof ~~must~~shall be equipped with a closure device between the wall of the storage vessel and the roof edge. The closure device ~~must~~is to consist of two seals, one above the other. The lower seal is referred to as the primary seal, and the upper seal is referred to as the secondary seal.
 - i) Except ~~under as provided in~~ Section 218.127(b)(4) ~~of this Subpart~~, the primary seal ~~must~~shall completely cover the annular space between the edge of the floating roof and tank wall and ~~must~~shall be either a liquid mounted seal or a shoe seal.
 - ii) The secondary seal ~~must~~shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except as allowed in Section 218.127(b)(4) ~~of this Subpart~~.
 - iii) The tank ~~must~~shall be equipped with the closure device after the next scheduled tank cleaning, but ~~by no later than~~ March 15, 2004.

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- B) Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof ~~must~~shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof ~~must~~is to be equipped with a gasketed cover, seal, or lid ~~that is to be maintained~~ in a closed position at all times (i.e., no visible gap), except when the device is in actual use. Automatic bleeder vents ~~must~~are to be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Rim vents ~~must~~are to be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents ~~must~~are to be gasketed. Each emergency roof drain ~~must~~is to be provided with a slotted membrane fabric cover that covers at least ~~90%~~90 percent of the area of the opening.
- C) The roof ~~must~~shall be floating on the liquid at all times (i.e., off the roof leg supports) except when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports ~~must~~shall be continuous and ~~must~~shall be accomplished as rapidly as possible.
- 4) A closed vent system and control device ~~must~~respectively shall meet the following specifications:
- A) The closed vent system ~~must~~shall be designed to collect all VOM vapors and gases discharged from the storage vessel and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined by the methods ~~specified~~ in 40 CFR 60.485(c), incorporated by reference at Section 218.112(d) ~~of this Part~~.
- B) The control device ~~must~~shall be designed and operated to reduce inlet VOM emissions by ~~95%~~95 percent or greater. If a flare is used as the control device, it ~~must~~shall meet the specifications ~~described~~ in the general control device requirements of 40 CFR 60.18, incorporated by reference at Section 218.112(d) ~~of this Part~~.
- 5) An alternative emission control plan equivalent to the requirements of subsection (a)(1), (a)(2), (a)(3), or (a)(4) ~~above~~ that has been approved by

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the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

- b) The owner or operator of each storage vessel with a design capacity of at least equal to or greater than 40,000 gallons which contains VOL that, as stored, has a maximum true vapor pressure greater than or equal to 11.1 psia must~~shall~~ equip each storage vessel with a closed vent system and control device as specified in subsection (a)(4)~~above~~.
- c) ~~Despite~~Notwithstanding subsection (b)~~of this Section~~, where an owner or operator can demonstrate that the control device installed on a storage vessel on or before December 31, 1992, was designed to reduce inlet VOM emissions by at least 90%~~greater than or equal to 90 percent~~ but less than ~~95%~~95 percent, the control device must~~shall~~ be operated to reduce inlet VOM ~~emission~~emission by at least 90%~~90 percent or greater~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.121 Storage Containers of VPL

~~A~~No person must not~~shall~~ cause or allow the storage of any volatile petroleum liquid (VPL) with a vapor pressure of 10.34 kPa (1.5 psia) or greater at 294.3 °K (70 °F)~~294.3°K (70°F)~~ or any gaseous organic material in any stationary tank, reservoir, or other container of more than 151 cubic meters (40,000 gal) capacity unless the~~such~~ tank, reservoir, or other container:

- a) Is a pressure tank capable of withstanding the vapor pressure of the~~such~~ liquid or the pressure of the gas, ~~so as~~ to prevent vapor or gas loss to the atmosphere at all times; or
- b) Is designed and equipped with one of the following vapor loss control devices:
 - 1) A floating roof which rests on the surface of the VPL and is equipped with a closure seal or seals between the roof edge and the tank wall. The~~Such~~ floating roof must~~shall~~ not be permitted if the VPL has a vapor pressure of 86.19 kPa (12.5 psia) or greater at 294.3 °K (70 °F)~~294.3°K (70°F)~~. ~~A~~No person must not~~shall~~ cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to the~~such~~ tanks, except during sampling or maintenance operations.
 - 2) A vapor recovery system consisting of:

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- A) A vapor gathering system capable of collecting 85% or more of the uncontrolled VOM that would be otherwise emitted to the atmosphere; and
- B) A vapor disposal system capable of processing ~~such~~ VOM ~~so as to~~ prevent its emission to the atmosphere. ~~A~~ No person ~~must not~~ shall cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to ~~a~~ such tank, reservoir, or other container except during sampling.
- 3) Other equipment or means of equal efficiency approved by the Agency ~~under~~ according to the provisions of 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.122 Loading Operations

- a) ~~A~~ No person ~~must not~~ shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere during the loading of any organic material from the aggregate loading pipes of any loading area ~~with a~~ having through-put ~~of~~ greater than 151 cubic meters per day (40,000 gal/day) into any railroad tank car, tank truck, or trailer, unless ~~the~~ such loading area is equipped with submerged loading pipes or a device that is equally effective in controlling emissions and is approved by the Agency ~~under~~ according to the provisions of 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108.
- b) ~~A~~ No person ~~must not~~ shall cause or allow the loading of any organic material into any stationary tank ~~with~~ having a storage capacity ~~of~~ greater than 946 ~~l~~ (250 gal), unless ~~the~~ such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Agency ~~under~~ according to the provisions of 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108 ~~of this Part~~, or unless ~~the~~ such tank is a pressure tank ~~under~~ as described in Section 218.121(a) ~~of this Part~~ or is fitted with a recovery system ~~under~~ as described in Section 218.121(b)(2) ~~of this Part~~.
- c) Exception: If no odor nuisance exists, ~~the limitations of this Section apply~~ shall only ~~apply to the loading of~~ VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at ~~294.3 °K (70 °F)~~ 294.3°K (70°F).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.123 Petroleum Liquid Storage Tanks

- a) ~~Subsection~~~~The requirements of subsection~~ (b) ~~does of this Section shall~~ not apply to any stationary storage tank:
- 1) Equipped before January 1, 1979, with one of the vapor loss control devices ~~specified in Section 218.121(b) of this Part~~, except Section 218.121(b)(1) ~~of this Part~~;
 - 2) With a capacity ~~of less than~~ 151.42 cubic meters (40,000 gal);
 - 3) With a capacity ~~of less than~~ 1,600 cubic meters (422,400 gal) and used to store produced crude oil and condensate ~~before prior to~~ custody transfer;
 - 4) With a capacity ~~of less than~~ 1,430 cubic meters (378,000 gal) and used to store produced oil or condensate in crude oil gathering;
 - 5) Subject to new source performance standards for storage vessels of petroleum liquid, 40 CFR 60, as regulations promulgated by ~~USEPA the U.S. Environmental Protection Agency~~ under Section 111 of the ~~CAA [42 U.S.C. 7411] Clean Air Act (42 USC 7411)~~, as amended. *The provisions of Section 111 of the federal Clean Air Act . . . are applicable in this State and are enforceable under the Environmental Protection Act [the Environmental Protection Act] (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1009.1(b))* [415 ILCS 5/9.1(b)];
 - 6) In which ~~VPL volatile petroleum liquid~~ is not stored; or
 - 7) Which is a pressure tank ~~under as described in~~ Section 218.121(a) ~~of this Part~~.
- b) Subject to subsection (a), ~~and of this Section no~~ owner or operator of a stationary storage tank ~~must not shall~~ cause or allow the storage of any ~~VPL volatile petroleum liquid~~ in the tank unless:
- 1) The tank is equipped with one of the vapor loss control devices ~~underspecified in~~ Section 218.121(b) ~~of this Part~~;

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- 2) There are no visible holes, tears, or other defects in the seal or any seal fabric or material of any floating roof;
- 3) All openings of any floating roof deck, except stub drains, are equipped with covers, lids, or seals ~~so such~~ that:
 - A) The cover, lid, or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank;
 - B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; and
 - C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting;
- 4) Routine inspections of floating roof seals are conducted through roof hatches once every six months;
- 5) A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than ~~transferring the transfer of~~ petroleum liquid during the normal operation of the tank, or whenever repairs are made ~~because as a result~~ of any semi-annual inspection or incidence of roof damage or defect; and
- 6) A record of the results of each inspection conducted under subsection (b)(4) or (b)(5) ~~of this Section~~ is maintained.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.124 External Floating Roofs

- a) In addition to meeting the requirements of Section 218.123(b) ~~of this Part, and~~ owner or operator of a stationary storage tank equipped with an external floating roof ~~must not shall~~ cause or allow the storage of any ~~VPL volatile petroleum liquid~~ in the tank unless:
 - 1) The tank has been fitted:

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- A) With a continuous secondary seal extending from the floating roof to the tank wall (rim mounted secondary seal); ~~or~~
 - B) With any other equipment or means of equal efficiency approved by the Agency ~~under~~according to the provisions of 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108-~~of this Part~~;
- 2) Each seal closure device meets the following requirements:
- A) The seal is intact and uniformly in place around the circumference of the floating roof between the floating roof and tank wall; and
 - B) The accumulated area of gaps exceeding 0.32 ~~centimeter~~ (1/8 ~~in. inch~~) in width between the secondary seal and the tank wall ~~does~~shall not exceed 21.2 square ~~centimeters~~ per meter of tank diameter (1.0 square ~~in. inches~~ per foot of tank diameter). Compliance with this requirement ~~must~~shall be determined by:
 - i) Physically measuring the length and width of all gaps around the entire circumference of the secondary seal in each place where a 0.32 cm (0.125 in.) uniform diameter probe passes freely (without forcing or binding against the seal) between the seal and the tank wall; and
 - ii) Summing the area of the individual gaps.
- 3) Emergency roof drains are provided with slotted membrane fabric covers or equivalent covers across at least ~~90%~~90 percent of the area of the opening;
- 4) Openings are equipped with projections into the tank which remain below the liquid surface at all times;
- 5) Inspections are conducted ~~before~~prior to May 1 of each year to ~~ensure~~insure compliance with subsection (a)~~of this Section~~;
- 6) The secondary seal gap is measured ~~before~~prior to May 1 of each year and within 30 days ~~after~~of a written request to demonstrate compliance with subsection (2)(B)~~of this Section~~;

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- 7) Records of the types of ~~VPL volatile petroleum liquid~~ stored, the maximum true vapor pressure of the liquid as stored, the results of the inspections, and the results of the secondary seal gap measurements are maintained and available to the Agency, upon verbal or written request, at any reasonable time for ~~at least a minimum of~~ two years after the date on which the record was made.
- b) Subsection (a) ~~above~~ does not apply to any stationary storage tank equipped with an external floating roof:
- 1) Exempted under Section 218.123(a)(2) through 218.123(a)(6) ~~of this Part~~;
 - 2) Of welded construction equipped with a metallic type shoe seal ~~and having~~ a secondary seal from the top of the shoe seal to the tank wall (shoe-mounted secondary seal);
 - 3) Of welded construction equipped with a metallic type shoe seal, a liquid-mounted foam seal, a liquid-mounted liquid-filled-type seal, or other closure device of equivalent control efficiency approved by the Agency in which a petroleum liquid with a true vapor pressure less than 27.6 kPa (4.0 psia) at ~~294.3 °K (70 °F)~~ ~~294.3 °K (70 °F)~~ is stored; or
 - 4) Used to store crude oil with a pour point of ~~50 °F~~ ~~50 °F~~ or higher as determined by ASTM Standard ~~D97-17b (2022)~~ ~~D97-66~~ incorporated by reference in Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.125 Compliance Dates

Every owner or operator of a VOL or VPL storage vessel subject to ~~the requirements of this Subpart must~~ ~~shall~~ comply with ~~the requirements of this Subpart by the deadline in accordance with the compliance schedule specified~~ in the applicable subsection ~~below~~:

- a) Every owner or operator of a VPL storage vessel ~~under of the type included in~~ Sections 218.121, 218.123, and 218.124 ~~must of this Subpart shall~~ have complied with ~~the requirements of~~ Sections 218.121, 218.123, and 218.124 by the date ~~set forth~~ in Section 218.106(a) or (b) ~~of this Part~~.

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- b) Every owner or operator of a VOL storage vessel ~~under of the type identified in Section 218.119 must of this Subpart shall~~ comply with ~~the requirements of Section 218.120 of this Subpart~~ as follows:
- 1) For fixed roof tanks (Section 218.120(a)(1) ~~of this Subpart~~), by March 15, 1996.
 - 2) For internal floating roof tanks (Section 218.120(a)(2) ~~of this Subpart~~), either during the next scheduled tank cleaning or by March 15, 2004, whichever comes first;
 - 3) For external floating roof tanks (Section 218.120(a)(3) ~~of this Subpart~~), either during the next scheduled tank cleaning or by March 15, 2004, whichever comes first; and
 - 4) For closed vent system and control device equipped tanks (Section 218.120(a)(4) ~~of this Subpart~~), by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.127 Testing VOL Operations

The owner or operator of each storage vessel specified in Section 218.119 ~~must of this Subpart shall~~ comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~below~~. The applicable subsection for a particular storage vessel depends on the control equipment installed to meet the requirements of this Subpart.

- a) After installing the control equipment necessary for the source to comply with ~~the requirements of~~ Section 218.120(a)(1) or (2) ~~of this Subpart~~ (permanently affixed roof and internal floating roof), each owner or operator ~~must shall~~:
- 1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) ~~before prior to~~ filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator ~~must shall~~ repair the items before filling the storage vessel.
 - 2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the

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secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, ~~or if there is liquid accumulated on the roof, or if the seal is detached, or if there are holes or tears in the seal fabric,~~ the owner or operator ~~must~~shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure ~~that is~~ detected during inspections required in this subsection cannot be repaired within 45 days, and if the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(a)(3) ~~of this Subpart. The~~Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the owner or operator will take to ensure that will assure that the control equipment will be repaired or the vessel will be emptied within 30 days.

- 3) For vessels equipped with both primary and secondary seals:
 - A) Visually inspect the vessel as specified in subsection (a)(4) ~~below~~ at least every ~~five~~5 years; or
 - B) Visually inspect the vessel as specified in subsection (a)(2) ~~above~~.
- 4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal, or if the seal fabric or the secondary seal has holes, tears, or other openings in the seal, or if the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or if the slotted membrane has more than ~~10%10 percent~~ open area, the owner or operator ~~must~~shall repair the items as necessary so that none of the conditions ~~specified in this subsection exists before refilling the storage vessel with VOL. InspectionsIn no event shall inspections~~ conducted in ~~complianceaccordance~~ with this ~~subsection must~~provision occur at least once everyat intervals greater than 10 years ~~forin the case of~~ vessels ~~undergoingconducting~~ the annual visual inspection ~~underas specified in~~ subsections (a)(2) and (a)(3)(B) ~~above~~ and at least once every fiveintervals ~~no greater than 5 years forin the case of~~ vessels ~~underspecified in~~ subsection (a)(3)(A) ~~above~~.

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- 5) Notify the Agency in writing at least 30 days ~~before prior to the~~ filling or refilling ~~of each~~ storage vessel for which an inspection is required by subsections (a)(1) and (a)(4) ~~above~~ to afford the Agency the opportunity to have an observer present. If the inspection required by subsection (a)(4) ~~above~~ is not planned and the owner or operator could not have known about the inspection 30 days ~~before in advance of~~ refilling the tank, the owner or operator ~~must shall~~ notify the Agency at least ~~seven 7~~ days ~~before prior to the~~ refilling ~~of the~~ storage vessel. Notification ~~must shall~~ be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that ~~the Agency receives it it is received by the Agency~~ at least ~~seven 7~~ days ~~before prior to the~~ refilling.

- b) The owner or operator of external floating roof tanks ~~must shall~~:

- 1) Determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel and between the secondary seal and the wall of the storage vessel.
- A) Measurements of gaps between the tank wall ~~and~~ the primary seal (seal gaps) ~~must shall~~ be performed during the hydrostatic testing of the vessel or within 60 days after the initial fill with VOL and ~~then~~ at least once every ~~five 5~~ years ~~thereafter~~.
- B) Measurements of gaps between the tank wall and the secondary seal ~~must shall~~ be performed within 60 days after the initial fill with VOL and ~~then~~ at least once per year ~~thereafter~~.
- C) If any source ceases to store VOL for ~~once a period of 1~~ year or more, subsequent introduction of VOL into the vessel ~~must shall~~ be considered an initial fill for ~~the purposes of~~ subsections (b)(1)(A) and (b)(1)(B) ~~above~~.
- 2) Determine gap widths and areas in the primary and secondary seals individually according to the following procedures:
- A) Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports;

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- B) Measure seal gaps around the entire circumference of the tank in each place where a 1/8 inch in diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel, and measure the circumferential distance of each ~~such~~ location; and
 - C) Determine the total surface area of each gap described in subsection (b)(2)(B) ~~above~~ by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each ~~such~~ width by its respective circumferential distance.
- 3) Add the gap surface area of each gap location for the primary seal and the secondary seal individually, ~~and~~ divide the sum for each by the nominal diameter of the tank, and compare each ratio to the ~~respective~~ standards in subsection (b)(4) ~~below~~.
- 4) Make necessary repairs or empty the storage vessel within 45 days after identification in any inspection for seals not meeting the requirements ~~listed~~ in subsections (b)(4)(A) and (B) ~~below~~:
- A) The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal ~~must~~shall not exceed 10 in. ~~(2)~~ per foot of tank diameter, and the width of any portion of any gap ~~must~~shall not exceed 1.5 in. There ~~must not~~are ~~to be~~ ~~no~~ holes, tears, or other openings in the shoe, seal fabric, or seal envelope.
 - B) The secondary seal ~~must~~is to meet the following requirements:
 - i) The secondary seal ~~must~~is to be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall, except ~~under~~as provided in subsection (b)(2)(C) ~~above~~.
 - ii) The accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal ~~must~~shall not exceed 1.0 in. ~~(2)~~ per foot of tank diameter, and the width of any

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portion of any gap ~~must~~shall not exceed 0.5 in. There ~~must~~not~~shall~~ be ~~no~~ gaps between the tank wall and the secondary seal when used ~~in combination~~ with a vapor mounted primary seal.

- iii) There ~~must not~~are to be ~~no~~ holes, tears, or other openings in the seal or seal fabric.

- C) If a failure ~~that is~~ detected during inspections required in Section 218.127(b)(1) ~~of this Subpart~~ cannot be repaired within 45 days and ~~if~~ the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(b)(4) ~~of this Subpart~~. ~~The~~Such extension request must include a demonstration of unavailability of alternate storage capacity and ~~a specification of a specific~~ schedule that will ~~ensure~~assure ~~that~~ the control equipment will be repaired or the vessel ~~will be~~ emptied as soon as possible.

- 5) Notify the Agency 30 days ~~before~~in advance of any gap measurements required by subsection (b)(1) ~~above~~ to afford the Agency the opportunity to have an observer present.

- 6) Visually inspect the external floating roof, ~~the~~ primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.

- A) If the external floating roof has defects, ~~if~~ the primary seal has holes, tears, or other openings in the seal or the seal fabric, or ~~if~~ the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator ~~must~~shall repair the items as necessary so that none of the conditions ~~specified in~~ this subsection exist before filling or refilling the storage vessel with VOL.

- B) For all the inspections required by subsection (b)(6) ~~above~~, the owner or operator ~~must~~shall notify the Agency in writing at least 30 days ~~before~~prior to filling or refilling ~~of~~ each storage vessel to afford the Agency the opportunity to inspect the storage vessel ~~before~~prior to the refilling of the storage vessel. Notification ~~must~~shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation

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may be sent by express mail so that ~~the Agency receives it is received by the Agency~~ at least ~~seven~~⁷ days ~~before~~^{prior to} the refilling.

- c) The owner or operator of each source ~~that is~~ equipped with a closed vent system and a flare to meet the requirements of Section 218.120(a)(4) ~~must of this Subpart shall meet the requirements specified in~~ the general control device requirements of 40 CFR 60.18(e) and (f), incorporated by reference at Section 218.112(d) ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.128 Monitoring VOL Operations

- a) Except ~~underas provided in~~ subsection (d), the owner or operator of each storage vessel with a design capacity ~~of at least~~^{greater than or equal to} 40,000 gallons storing a liquid with a maximum true vapor pressure that is normally less than 0.75 psia ~~must~~^{shall} notify the Agency within 30 days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.
- b) Available data on the storage temperature may be used to determine the maximum true vapor pressure.
- 1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based ~~on~~^{upon} the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based ~~on~~^{upon} the maximum local monthly average ambient temperature as reported by the National Weather Service.
- 2) For other liquids, the vapor pressure must be:
- A) Determined by ASTM Method D-879-83, incorporated by reference at Section 218.112(a) ~~of this Part~~;
- B) Measured by an appropriate method approved by the Agency and USEPA; or
- C) Calculated by an appropriate method approved by the Agency and USEPA.

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- c) The owner or operator of each vessel storing a mixture of indeterminate or variable composition ~~are~~shall be subject to the following:
- 1) ~~Before~~Prior to the initial filling of the vessel, the maximum true vapor pressure for the range of anticipated liquid compositions to be stored ~~must will~~ be determined using the methods ~~described in~~ subsection (b).
 - 2) For vessels in which the vapor pressure of the anticipated liquid composition is at least 0.5 psia ~~or greater~~ but less than 0.75 psia, an initial physical test of the vapor pressure is required; ~~then~~ a physical test is required at least once every ~~six~~6 months ~~using one of~~hereafter is required as determined by the following methods:
 - A) ASTM Method D-~~2879-18~~2879-83, incorporated by reference at Section 218.112(a) ~~of this Part~~;
 - B) ASTM Method D-~~323-20~~323-08, incorporated by reference at Section 218.112(a) ~~of this Part~~; or
 - C) ~~An~~As measured by an appropriate method approved by the Agency.
- d) The owner or operator of each vessel equipped with a closed vent system and control device meeting the specifications of Section 218.120 ~~of this Subpart~~ is exempt from the requirements of subsections (a) and (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.129 Recordkeeping and Reporting for VOL Operations

The owner or operator of each storage vessel specified in Section 218.120(a) ~~must of this Subpart shall~~ maintain records and furnish reports as required by subsection (a), (b), or (c) ~~below~~ as appropriate for the control equipment installed to meet the requirements of Section 218.120. The owner or operator ~~must shall~~ keep copies of all reports and records required by this Section, except for the records required by subsection (c)(1) ~~below~~, for at least ~~three~~3 years. The records required by subsection (c)(1) ~~must below shall~~ be kept for the life of the control equipment.

- a) After installing control equipment in ~~compliance~~accordance with Section 218.120(a)(1) or (2) ~~of this Subpart~~ (fixed roof and internal floating roof), the owner or operator ~~must shall~~:

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- 1) Furnish the Agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of Section 218.120(a)(1) and 218.127(a)(1) ~~of this Subpart~~;
 - 2) Keep a record of each inspection performed as required by Section 218.127(a)(1), (a)(2), (a)(3), and (a)(4) ~~of this Subpart~~. Each record ~~must~~ shall identify the storage vessel on which the inspection was performed and ~~must~~ shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings);
 - 3) If any of the conditions ~~described in~~ Section 218.127(a)(2) ~~of this Subpart~~ are detected during the annual visual inspection required by Section 218.127(a)(2), report to the Agency within 30 days after the inspection the identity of the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made; and
 - 4) After each inspection required by Section 218.127(a)(3) ~~of this Subpart~~ where holes or tears in the seal or seal fabric, ~~or~~ defects in the internal floating roof, or other control equipment defects ~~listed in~~ Section 218.127(a)(3)(B) ~~of this Subpart~~ are discovered, report to the Agency within 30 days after the inspection the identity of the storage vessel and the reason it did not meet the specifications of Section 218.120(a)(1) or (2) or Section 218.127(a) ~~of this Subpart~~, and list each repair made.
- b) After installing control equipment in ~~compliance~~ accordance with Section 218.120(a)(3) ~~of this Subpart~~ (external floating roof), the owner or operator ~~must~~ shall:
- 1) Furnish the Agency with a report that describes the control equipment, and certify that the control equipment meets the specifications of Sections 218.120(a)(3) and 218.127(b)(2), (b)(3), and (b)(4) ~~of this Subpart~~;
 - 2) Within 60 days after performing the seal gap measurements required by Section 218.127(b)(1) ~~of this Subpart~~, furnish the Agency with a report that contains:
 - A) The date of measurement;

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- B) The raw data obtained in the measurement; and
 - C) The calculations ~~of this Subpart~~ described in Section 218.127(b)(2) and (b)(3) ~~of this Subpart~~;
- 3) Maintain records of each gap measurement performed as required by Section 218.127(b) ~~of this Subpart~~. ~~The~~ Such records ~~must~~shall identify the storage vessel in which the measurement was performed and must~~shall~~ contain:
- A) The date of measurement;
 - B) The raw data obtained in the measurement; and
 - C) The calculations described in Section 218.127(b)(2) and (b)(3) ~~of this Subpart~~;
- 4) After each seal gap measurement that detects gaps exceeding the limitations ~~underspecified by~~ Section 218.127(b)(4) ~~of this Subpart~~, submit a report to the Agency within 30 days after the inspection identifying the vessel and containing the information ~~specified in~~ subsection (b)(2) ~~above~~ and the date the vessel was emptied or the repairs were made and the date of repair.
- c) After installing control equipment in ~~compliance~~accordance with Section 218.127(a)(4) or (b)(1) ~~of this Subpart~~ (closed vent system and control device other than a flare), the owner or operator must~~shall~~ ~~maintain the following records:~~
- 1) A copy of the operating plan; and
 - 2) The measured values of the parameters monitored in complianceaccordance with Section 218.127(c)(2) ~~of this Subpart~~.
- d) After installing a closed vent system and flare to comply with Section 218.127 ~~of this Subpart~~, the owner or operator must~~shall~~:
- 1) Provide the Agency with a report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6), incorporated by reference

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at Section 218.112(d) ~~of this Part~~, within ~~six~~6 months after the initial start-up date;

- 2) Maintain records of all periods of operation during which the flare pilot flame is absent; and
- 3) Report semiannually all periods recorded under 40 CFR 60.115b(d)(2), incorporated by reference at Section 218.112(d) ~~of this Part~~, in which the pilot flame was absent.
- e) The owner or operator ~~must~~shall maintain all records required by this Section, except for the records required by subsection (f) ~~below~~, for at least ~~three~~3 years. The records required by subsection (f) ~~must~~~~below~~ shall be kept for the life of the source.
- f) The owner or operator of each storage vessel specified in Section 218.119 ~~must~~~~of this Subpart~~ shall maintain readily accessible records of the dimension of the storage vessel and an analysis of the capacity of the storage vessel. Each storage vessel with a design capacity less than 40,000 gallons is ~~not~~ subject to ~~no~~ ~~provisions of this Part~~, other than ~~the requirement to maintain those required by maintaining~~ readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel.
- g) Except ~~under as provided in~~ Section 218.128(c) and (d) ~~of this Subpart~~, the owner or operator of each storage vessel subject to ~~the requirements in~~ Section 218.120 with a design capacity ~~of at least~~greater than or equal to 40,000 gallons storing a liquid with a maximum true vapor pressure ~~at least~~greater than or equal to 0.5 psia but less than 0.75 psia ~~must~~shall maintain a record of the VOL storage, the period of storage, and the maximum true vapor pressure of the VOL during the ~~respective~~ storage period.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section 218.141 Separation Operations

- a) ~~A~~No person ~~must not~~shall use any single or multiple compartment effluent water separator which receives effluent water containing 757 ~~l/day~~1/day (200 gal/day) or more of organic material from any equipment processing, refining, treating, storing, or handling organic material, unless ~~the~~such effluent water separator is

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equipped with air pollution control equipment capable of reducing by at least 85%~~85 percent or more~~ the uncontrolled organic material emitted to the atmosphere. ~~However, if~~Exception: If no odor nuisance exists, the limitations of this subsection ~~do~~shall not apply if the vapor pressure of the organic material is below 17.24 kPa (2.5 psia) at 294.3 °K (70 °F)~~294.3°K (70°F)~~.

- b) Subsection (a) ~~does of this Section shall~~ not apply to water and crude oil separation in the production of Illinois crude oil, if the vapor pressure of ~~the~~such crude oil is less than 34.5 kPa (5 psia).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.142 Pumps and Compressors

~~A~~No person ~~must not~~shall cause or allow the discharge of more than 32.8 ml (2 cu in.) of VOL with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F)~~294.3°K (70°F)~~ into the atmosphere from any pump or compressor in any 15-minute~~15 minute~~ period at standard conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.143 Vapor Blowdown

~~A~~No person ~~must not~~shall cause or allow the emission of organic material into the atmosphere from any vapor blowdown system or any safety relief valve, except ~~such~~ safety relief valves not capable of causing an excessive release, unless ~~the~~such emission is controlled:

- a) To 10 ppm equivalent methane (molecular weight 16.0) or less; ~~or,~~
- b) By combustion in a smokeless flare; ~~or,~~
- c) By other air pollution control equipment approved by the Agency ~~under~~according ~~to the provisions of~~ 35 Ill. Adm. Code 201; and ~~further processed~~ under~~consistent~~ ~~with~~ Section 218.108 ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.144 Safety Relief Valves

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Section 218.143 ~~does of this Part shall~~ not apply to any set of unregulated safety relief valves capable of causing excessive releases ~~if provided~~ the owner or operator ~~thereof~~, by October 1, 1972, supplied the Agency with ~~the following~~:

- a) A historical record of each ~~such~~-set (or, if ~~the~~~~such~~ records were unavailable, of similar sets which, by virtue of operation under similar circumstances, may reasonably have been presumed to have the same or greater frequency of excessive releases) for a three-year period immediately preceding October 1, 1972, indicating:
 - 1) Dates on which excessive releases occurred from each ~~such~~-set; ~~and~~
 - 2) Duration in minutes of each ~~such~~-excessive release; and
 - 3) Quantities ~~(in pounds)~~ of mercaptans ~~or~~~~and/or~~ hydrogen sulfide ~~or both~~ emitted into the atmosphere during each ~~such~~-excessive release;
- b) Proof, using ~~the~~ ~~such~~-three-year historical records, that no excessive release is likely to occur from any ~~such~~-set either alone or in combination with ~~such~~-excessive releases from other sets owned or operated by the same person and located within a ~~10-mile~~~~ten-mile~~ radius from the center point of any ~~such~~-set, more frequently than ~~three~~~~3~~ times in any ~~12-month~~~~12-month~~ period;
- c) Accurate maintenance records ~~underpursuant to the requirements of~~ subsection (a) ~~of this Section~~; and
- d) Proof, at three-year intervals, using ~~the~~ ~~such~~-three-year historical records, that ~~the~~~~such~~ set conforms to ~~the requirements of~~ subsection (c) ~~of this Section~~.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART E: SOLVENT CLEANING

Section 218.181 Solvent Cleaning Degreasing Operations

~~The requirements of~~ Sections 218.182, 218.183, 218.184, and 218.186 ~~of this Subpart shall~~ apply to all cold cleaning, open top vapor degreasing, and conveyorized degreasing operations which use ~~VOM~~~~volatile organic materials~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.182 Cold Cleaning

- a) Operating Procedures: ~~A~~No person ~~must not~~shall operate a cold cleaning degreaser unless:
- 1) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to ~~in such a manner that more than~~ 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 2) The cover of the degreaser is closed when parts are not being handled; and
 - 3) Parts are drained until dripping ceases.
- b) Equipment Requirements: ~~A~~No person ~~must not~~shall operate a cold cleaning degreaser unless:
- 1) The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover ~~must~~shall be designed to be easily operated with one hand or with the mechanical assistance of springs, counter-weights, or a powered system if:
 - A) The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38 °C (100 °F)~~38 °C (100 °F)~~;
 - B) The solvent is agitated; or
 - C) The solvent is heated above ambient room temperature.
 - 2) The degreaser is equipped with a device for draining cleaned parts. The drainage device ~~must~~shall be constructed so that parts are enclosed under the cover while draining, unless:
 - A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38 °C (100 °F)~~38 °C (100 °F)~~; or
 - B) An internal drainage device cannot be fitted into the cleaning system, in which case the drainage device may be external.
 - 3) The degreaser is equipped with one of the following control devices if the vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi)

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measured at ~~38 °C (100 °F)~~^{38°C (100°F)} or if the solvent is heated above ~~50 °C (120 °F)~~^{50°C (120°F)} or its boiling point:

- A) A freeboard height of 7/10 of the inside width of the tank or 91 cm (36 in.), whichever is less; or
 - B) Any other equipment or system of equivalent emission control ~~as~~ approved by the Agency and ~~further processed~~ ^{under}~~consistent~~ ^{with} Section 218.108 ~~of this Part.~~ ^{The}Such a system may include a water cover, refrigerated chiller, or carbon adsorber.
- 4) A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser; and
- 5) If a solvent spray is used, the degreaser is equipped with a solid fluid stream spray, rather than a fine, atomized, or shower spray.

c) Material and Control Requirements:

- 1) On and after March 15, 1999, ~~any~~ person ~~must not~~^{shall}:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at ~~20 °C (68 °F)~~^{20°C (68°F)} in units greater than five gallons; for use in cold cleaning degreasing operations ~~located in the area described in~~^{covered by} Section 218.103 ~~of this Part.~~
 - B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at ~~20 °C (68 °F)~~^{20°C (68°F)}.
- 2) On and after March 15, 2001, ~~any~~ person ~~must not~~^{shall}:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at ~~20 °C (68 °F)~~^{20°C (68°F)} in units greater than five gallons; for use in cold cleaning degreasing operations ~~located in the area described in~~^{covered by} Section 218.103 ~~of this Part.~~

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- B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F)~~20° C (68° F)~~.
- 3) On and after May 30, 2007, ~~any~~ person must not~~shall~~:
- A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F)~~20° C (68° F)~~ in units greater than five gallons, for use in cold cleaning degreasing operations ~~located in the area described in~~covered by Section 218.103 ~~of this Part~~, unless the purchaser provides a copy of a valid State or federal construction or operating permit or a copy of the Federal Register demonstrating that the purchaser is in compliance with ~~the control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.~~
- B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F)~~20° C (68° F)~~, unless the person is in compliance with ~~the control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.~~
- 4) Control Requirements:
- A) A person may operate a cold cleaning degreaser using solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) but less than 56 mmHg (1.064 psi) measured at 20 °C (68 °F) ~~if 20° C (68° F)~~ if provided add-on control devices demonstrating at least 95%~~95 percent~~ overall capture and control of emissions are used. The add-on controls may include, ~~but are not limited to~~, carbon adsorbers or afterburners.
- B) An equivalent alternative control plan may be used to meet the control requirements of this Section ~~underpursuant to~~ Section 218.108 ~~of this Part~~. Under~~Pursuant to~~ the material requirements of subsection (c)(3)(B) ~~of this Section~~, a solvent with a vapor pressure of 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) ~~must 20° C (68° F) shall~~ be the basis for assessment of equivalent emissions from any equivalent alternative control plan. If used as an equivalent alternative control plan, an add-on control must

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demonstrate at least a ~~95%~~95 percent overall capture and control efficiency. A control plan approved by the Agency ~~is shall be~~ effective only when included in a federally enforceable permit or approved by ~~the~~USEPA as a SIP revision ~~underpursuant to~~ Section 218.108 ~~of this Part.~~

- C) Add-on controls operating at a source ~~beforeprior to~~ May 30, 2007, ~~mustshall~~ be tested by August 31, 2007. Add-on controls constructed on or after May 30, 2007, ~~mustshall~~ be tested within 90 days after initial startup. Testing procedures and recordkeeping for add-on controls and equivalent alternative controls subject to subsections (c)(4)(A) and (B) ~~mustof this Section are to be~~ performed ~~underpursuant to~~ Section 218.105 (c), (d), (e), and (f) ~~of this Part.~~

- d) Recordkeeping and Reporting Requirements. On and after March 15, 1999:

- 1) All persons subject to ~~the requirements of~~ subsections (c)(1)(A), (c)(2)(A), and (c)(3)(A) ~~of this Section~~ must maintain records which include for each sale:
 - A) The name and address of the solvent purchaser;
 - B) The date of sale;
 - C) The type of solvent;
 - D) The unit volume of solvent;
 - E) The total volume of solvent; and
 - F) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F)~~20° C (68° F).~~
- 2) All persons subject to ~~the requirements of~~ subsections (c)(1)(B), (c)(2)(B), and (c)(3)(B) ~~of this Section~~ must maintain records which include for each purchase:
 - A) The name and address of the solvent supplier;

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- B) The date of purchase;
 - C) The type of solvent;
 - D) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~; and
 - E) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~.
- 3) All persons subject to ~~the requirements of~~ subsection (c)(4) ~~must of this Section shall~~ maintain records, which include for each purchase:
- A) The name and address of the solvent supplier;
 - B) The date of purchase;
 - C) The type of solvent;
 - D) The unit volume of solvent;
 - E) The total volume of solvent;
 - F) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~; and
 - G) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~.
- 4) All persons subject to ~~the requirements of~~ subsection (c)(4) ~~must of this Section shall~~ maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cold cleaning degreasers and add-on control equipment. At a minimum, these records ~~must shall~~ include:
- A) Records for periodic inspection of the cold cleaning degreasers and add-on control equipment with date of inspection, individual performing the inspection, and nature of inspection;

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- B) Records for ~~repairing~~repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM that escaped into the atmosphere ~~because~~as a result of the incident;
 - C) Control device monitoring and recording data; and
 - D) A daily log of operating time for the control device, monitoring equipment, and all associated degreasers.
- 5) All persons subject to ~~the requirements of~~ subsection (c) ~~of this Section~~ shall ~~must~~ notify the Agency at least 30 days before changing the method of compliance between subsection (c)(3) and (c)(4) ~~of this Section~~. ~~The~~Such notification ~~must~~shall include a demonstration of compliance with the newly applicable subsection.
- 6) All persons subject to ~~the requirements of~~ subsection (b) or (c) ~~must of this Section~~ shall notify the Agency of any violation of subsection (b) or (c) ~~of this Section~~ by sending a description of the violation and copies of records documenting ~~the~~such violations to the Agency within 30 days ~~after following the violation occurs~~occurrence of the violation.
- e) All records required by subsection (d) ~~must of this Section~~ shall be retained for three years and ~~must~~shall be made available to the Agency upon request.
 - f) The cleaning of electronic components as defined in 35 Ill. Adm. Code ~~Section~~ 211.1885 is exempt from the requirements of subsection(c) ~~of this Section~~.
 - g) Any cold cleaning taking place in a Detrex cold batch degreaser Model #2D-CC-SPL Size 24-4-10, or substantial equivalent, including automated loading of parts ~~and~~, totally enclosed operation (excluding loading or unloading) and permitted by the Agency, is exempt from the requirements of subsection (c) ~~of this Section~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.183 Open Top Vapor Degreasing

- a) Operating Requirements: ~~A~~No person ~~must not~~shall operate an open top vapor degreaser unless:

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- 1) The cover of the degreaser is closed when workloads are not being processed through the degreaser;
- 2) Solvent carry out emissions are minimized by:
 - A) Racking parts to allow complete drainage;
 - B) Moving parts in and out of the degreaser at less than 3.3 m/min (11 ft/min);
 - C) Holding the parts in the vapor zone until condensation ceases;
 - D) Tipping out any pools of solvent on the cleaned parts before removal from the vapor zone; and
 - E) Allowing parts to dry within the degreaser until visually dry;
- 3) Porous or absorbent materials, such as cloth, leather, wood, or rope, are not degreased;
- 4) Less than half of the degreaser's open top area is occupied with a workload;
- 5) The degreaser is ~~not~~ loaded ~~so that to the point where~~ the vapor level will not drop more than 10 cm (4 in.) when the workload is removed from the vapor zone;
- 6) Spraying is done below the vapor level only;
- 7) Solvent leaks are repaired immediately;
- 8) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
- 9) Water is not visually detectable in solvent exiting from the water separator; and
- 10) Exhaust ventilation ~~does not exceed~~ exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser

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open area ~~is not used~~, unless necessary to meet the requirements of the Occupational Safety and Health Act (OSHA) [(29 U.S.C. ~~Section 651 et seq.~~)].

- b) Equipment Requirements: ~~A~~No person ~~must not shall~~ operate an open top vapor degreaser unless:
- 1) The degreaser is equipped with a cover designed to open and close easily without disturbing the vapor zone;
 - 2) The degreaser is equipped with the following switches:
 - A) One which shuts off the sump heat if the amount of condenser coolant is not sufficient to maintain the designed vapor level; ~~and~~
 - B) One which shuts off the spray pump if the vapor level drops more than 10 cm (4 in.) below the bottom condenser coil; and
 - C) One which shuts off the sump heat source when the vapor level exceeds the design level;
 - 3) A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser;
 - 4) The degreaser is equipped with one of the following devices:
 - A) A freeboard height of 3/4 of the inside width of the degreaser tank or 91 cm (36 in.), whichever is less; and if the degreaser opening is greater than 1 square meter (10.8 square feet), a powered or mechanically assisted cover; or
 - B) Any other equipment or system of equivalent emission control ~~as~~ approved by the Agency and ~~further processed~~ ~~undereonsistent-~~ ~~with~~ Section 218.108 ~~of this Part.~~ ~~The~~Such equipment or system may include a refrigerated chiller, an enclosed design, or a carbon adsorption system.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.184 Conveyorized Degreasing

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- a) Operating Requirements: ~~A~~No person ~~must not~~shall operate a conveyORIZED degreaser unless:
- 1) Exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of area of loading and unloading opening is not used, unless necessary to meet the requirements of ~~OSHA the Occupational Safety and Health Act~~ [(29 U.S.C. ~~Section~~ 651 et seq.)];
 - 2) Solvent carryout emissions are minimized by:
 - A) Racking parts for best drainage; and
 - B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11 ft/min);
 - 3) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to ~~in such a manner that more than~~ 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 4) Solvent leaks are repaired immediately;
 - 5) Water is not visually detectable in solvent exiting from the water separator; and
 - 6) Downtime covers are placed over entrances and exits of conveyORIZED degreasers immediately after the conveyors and exhausts are shut down and not removed until just before start-up.
- b) Equipment Requirements: ~~A~~No person ~~must not~~shall operate a conveyORIZED degreaser unless:
- 1) The degreaser is equipped with a drying tunnel, rotating (tumbling) basket, or other equipment sufficient to prevent cleaned parts from carrying out solvent liquid or vapor;
 - 2) The degreaser is equipped with the following switches:

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- A) One which shuts off the sump heat source if the amount of condenser coolant is not sufficient to maintain the designed vapor level;
 - B) One which shuts off the spray pump or the conveyor if the vapor level drops more than 10 cm (4 in.) below the bottom condenser coil; and
 - C) One which shuts off the sump heat source when the vapor level exceeds the design level.
- 3) The degreaser is equipped with openings for entrances and exits that silhouette workloads so that the average clearance between the parts and the edge of the degreaser opening is less than 10 cm (4 in.) or less than ~~10%~~~~10 percent~~ of the width of the opening;
- 4) The degreaser is equipped with downtime covers for closing off entrances and exits when the degreaser is shut down; and
- 5) The degreaser is equipped with one of the following control devices, if the air/vapor interface is larger than 2.0 square meters (21.6 square feet):
- A) A carbon adsorption system with ventilation ~~of at least~~~~greater than or equal to~~ 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when downtime covers are open, and exhausting less than 25 ppm of solvent by volume averaged over a complete adsorption cycle; or
 - B) Any other equipment or system of equivalent emission control ~~as~~ approved by the Agency, and ~~further processed~~ ~~under~~~~consistent with~~ Section 218.108 ~~of this Part~~. ~~The~~~~Such~~ equipment or system may include a refrigerated chiller.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.186 Test Methods

The following test methods ~~must~~~~shall~~ be used to demonstrate compliance with this Subpart:

- a) Vapor pressures ~~must~~~~shall~~ be determined ~~by~~ using the procedure ~~specified in~~ Section 218.110 ~~of this Part~~.

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- b) Exhaust ventilation rates ~~must~~shall be determined ~~by~~using the procedures ~~specified in Section 218.105(f)(3) of this Part.~~
- c) The performance of control devices ~~must~~shall be determined ~~by~~using the procedures ~~specified in Section 218.105(f) of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.187 Other Industrial Solvent Cleaning Operations

- a) Applicability. On and after January 1, 2012:
 - 1) Except ~~under as provided in~~ subsection (a)(2) ~~of this Section,~~ the requirements of this Section ~~shall~~apply to all cleaning operations that use organic materials at sources that emit a total of 226.8 kg per calendar month (500 lbs per calendar month) or more of VOM, ~~without in the absence of~~ air pollution control equipment, from cleaning operations at the source other than cleaning operations identified in subsection (a)(2) ~~of this Section.~~ For ~~purposes of~~ this Section, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including ~~but not limited to~~ spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning; at sources with emission units;
 - 2) ~~Despite~~~~Notwithstanding~~ subsection (a)(1) ~~of this Section:~~
 - A) The following cleaning operations ~~are~~shall be exempt from ~~the requirements of~~ subsections (b), (c), (d), (e), (f), and (g) ~~of this Section:~~
 - i) Cleaning operations subject to ~~the limitations in~~ Sections 218.182, 218.183, or 218.184;
 - ii) Janitorial cleaning;
 - iii) Stripping of cured coatings, inks, or adhesives; ~~and~~

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- iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning.
- B) Cleaning operations for emission units within the following categories ~~are shall be~~ exempt from ~~the requirements of~~ subsections (b), (c), (d), (e), (f), and (g) ~~of this Section~~:
 - i) Flexible package printing;
 - ii) Lithographic printing;
 - iii) Letterpress printing;
 - iv) Flat wood paneling coating;
 - v) Large appliance coating;
 - vi) Metal furniture coating;
 - vii) Paper, film, and foil coating;
 - viii) Wood furniture coating;
 - ix) Plastic parts coating;
 - x) Miscellaneous metal parts coating;
 - xi) Fiberglass boat manufacturing;
 - xii) Miscellaneous industrial adhesives; and
 - xiii) Auto and light-duty truck assembly coating.
- C) The following cleaning operations ~~are shall be~~ exempt from ~~the requirements of~~ subsections (b), (c), (f), and (g) ~~of this Section~~:
 - i) Cleaning of solar cells, laser hardware, scientific instruments, and high-precision optics;

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- ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;
- iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal ~~using by means of~~ an adhesive;
- iv) Cleaning of cotton swabs to remove cottonseed oil before cleaning of high-precision optics;
- v) Cleaning of medical device and pharmaceutical manufacturing operations if the facility uses no more than 5.7 ~~liters~~ (1.5 ~~gal~~ gallons) per day of solvents for ~~that such~~ cleaning;
- vi) Cleaning of adhesive application equipment used for thin metal laminating;
- vii) Cleaning of electronic or electrical cables;
- viii) Touch-up cleaning performed on printed circuit boards where surface mounted devices have already been attached;
- ix) Cleaning of coating and adhesive application processes ~~used~~utilized to manufacture transdermal drug delivery products using no more than 3 ~~gal~~three gallons per day of ethyl acetate;
- x) Cleaning of application equipment used to apply coatings on satellites and radiation effect coatings;
- xi) Cleaning of application equipment used to apply solvent-borne fluoropolymer coatings;
- xii) Cleaning of ultraviolet or electron beam adhesive application;

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- xiii) Cleaning of sterilization indicating ink application equipment if the facility uses no more than 5.7 ~~liters~~ (1.5 ~~gallons~~) per day of solvents for ~~that~~ cleaning;
 - xiv) Cleaning of metering rollers, dampening rollers, and printing plates;
 - xv) Cleaning of numismatic dies;
 - xvi) Cleaning operations associated with digital printing;
 - xvii) Cleaning with aerosol products if the facility uses only up to no more than 4.7 liters (1.25 ~~gallons~~) per day of ~~those~~ products;
 - xviii) Cleaning of plastic-based or vinyl-based substrates for use in the screen printing process when using UV curable ink and coating systems;
 - xix) Cleaning conducted as part of performance tests on coatings, adhesives, or inks that are in research and development and that are not yet commercially used for the applications for which they are being tested. This exemption is limited to ~~using the use of~~ up to a total of 90.9 ~~liters~~ (24 ~~gallons~~) of cleaning solvent per calendar month and 416.3 ~~liters~~ (110 ~~gallons~~) per calendar year for such cleaning.
- b) Material and Control Requirements. ~~An~~No owner or operator of a source subject to this Section, other than manufacturers of coatings, inks, adhesives, or resins, ~~must not~~shall perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in subsection (b)(1), (b)(2), or (b)(3). ~~An~~No owner or operator of a source that manufactures coatings, inks, adhesives, or resins ~~must not~~shall perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in at least one of the following subsections: (b)(1), (b)(2), (b)(3), (b)(4), or (b)(5).
- 1) The VOM content of the as-used cleaning solutions does not exceed the following emissions limitations:

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- A) Product cleaning during manufacturing process or surface preparation for coating, adhesive, or ink application:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing	0.80	6.7

- B) Repair and maintenance cleaning:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing: tools, equipment, and machinery	0.80	6.7
iii)	Medical device and pharmaceutical manufacturing: general work surfaces	0.60	5.0

- C) Cleaning of ink application equipment:

		kg/l	lb/gal
i)	Rotogravure printing that does not print flexible packaging	0.10	0.83
ii)	Screen printing, including screen reclamation activities	0.50	4.2
iii)	Ultraviolet ink and electron beam ink application equipment, except screen printing	0.65	5.4

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- iv) Flexographic printing that does not 0.10 0.83
print flexible packaging

- D) Cleaning of equipment used in the kg/l lb/gal
manufacture of coatings, inks, 0.20 ~~1.67~~ 1.67
adhesives, or resins

- E) All other cleaning operations not kg/l ~~kg/l~~ lb/gal
subject to a specific limitation in 0.050 0.42
subsections (b)(1)(A) through
(b)(1)(D) ~~of this Section~~

- 2) The VOM composite vapor pressure of each as-used cleaning solution used does not exceed 8.0 mmHg measured at ~~20 °C (68 °F)~~ 20 °C (68 °F);
- 3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least ~~85%~~ 85 percent overall, or for sources that manufacture coatings, inks, adhesives, or resins, an afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least ~~80%~~ 80 percent overall and has a ~~90%~~ 90 percent efficiency. The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if ~~the such~~ device reduces VOM emissions from the subject cleaning operation in ~~compliance~~ with the applicable capture and control requirements of this subsection (b)(3), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for ~~the such~~ control device, and ~~the such~~ plan is approved by the Agency and USEPA within federally enforceable permit conditions;
- 4) For sources that manufacture coatings, inks, adhesives, or resins, the owner or operator complies with the following work practices:
- A) Equipment being cleaned is maintained leak-free;
- B) VOM-containing cleaning materials are drained from the cleaned equipment upon ~~completing~~ completion of cleaning;

Commented [SKA34]: "accordance" is on file.

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- C) VOM-containing cleaning materials, including waste solvent, are ~~not~~ stored or disposed of ~~so that they will not in such a manner that will~~ cause or allow evaporation into the atmosphere; and
- D) VOM-containing cleaning materials are stored in closed containers;
- 5) Sources that manufacture coatings, inks, adhesives, or resins may ~~use~~ solvents that do not comply with subsection (b)(1) or (b)(2) ~~if~~ ~~this Section provided that~~ all of the following requirements are met:
 - A) ~~Only up to~~ ~~No more than~~ 228 l (60 gal) of fresh solvent is used per calendar month. Solvent that is reused or recycled, either onsite or offsite, for further use in equipment cleaning or in the manufacture of coatings, inks, adhesives, or resins, ~~must~~ ~~shall~~ not be included in this limit;
 - B) Solvents, including cleanup solvents, are collected and stored in closed containers; and
 - C) Records are maintained in ~~compliance~~ ~~accordance~~ with subsection (c)(6).
- c) The owner or operator of a subject source ~~must~~ ~~shall~~ demonstrate compliance with this Section by using the applicable test methods and procedures ~~specified in~~ subsection (g) ~~of this Section~~ and by complying with the recordkeeping and reporting requirements ~~specified in~~ subsection (e) ~~of this Section~~.
- d) Operating Requirements. The owner or operator of a source subject to ~~the~~ ~~requirements of~~ this Section ~~must~~ ~~shall~~ comply with the following for each subject cleaning operation. ~~These~~ ~~Such~~ requirements are in addition to work practices ~~set forth in~~ subsections (b)(4) and (b)(5) ~~of this Section~~, as applicable:
 - 1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;
 - 2) Minimize air circulation around the cleaning operation;
 - 3) Dispose of all used cleaning solutions, cleaning towels, and applicators used to apply cleaning solvents in closed containers;

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- 4) ~~Use~~Utilize equipment practices that minimize emissions;
- 5) When using cleaning solvent for wipe cleaning, sources that manufacture coatings, inks, adhesives, or resins ~~must~~shall:
 - A) Cover open containers used ~~to store for the storage of~~ spent or fresh organic compounds used for cleanup or coating, ink, adhesive, or resin removal; and
 - B) Cover open containers used ~~to store or dispose for the storage or disposal of~~ cloth or paper impregnated with organic compounds that are used for cleanup or coating, ink, adhesive, or resin removal.
- e) Recordkeeping and Reporting Requirements
 - 1) The owner or operator of a source exempt from ~~the limitations of this Section because of the criteria in subsection (a)(1) must of this Section~~ shall comply with the following:
 - A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - i) A declaration that the source is exempt from ~~the requirements of this Section because of the criteria in subsection (a)(1); and~~
 - ii) Calculations that demonstrate that combined emissions of VOM from cleaning operations at the source, other than cleaning operations ~~identified in subsection (a)(2) of this Section~~, never equal or exceed 226.8 kg/month (500 lbs/month); ~~without in the absence of~~ air pollution control equipment. An emission adjustment factor of 0.50 ~~must~~shall be used ~~to calculate in calculating~~ emissions from used shop towels if the VOM composite vapor pressure of each associated cleaning solution is demonstrated to be less than 10 mmHg at ~~20 °C (68 °F)~~20°C (68°F) and the used shop towels are kept in closed containers. For cleaning

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solutions with VOM composite vapor pressures of at least equal to or greater than 10 mmHG measured at 20 °C (68 °F) ~~20°C (68°F)~~ and for shop towels that are not kept in closed containers, ~~an~~ no emission adjustment factor must ~~not~~ shall be used.

- B) On and after January 1, 2012, collect and record the following information each month for each cleaning operation, other than cleaning operations ~~identified in subsection (a)(2) of this Section:~~
- i) The name and identification of each VOM-containing cleaning solution as applied in each cleaning operation;
 - ii) The VOM content of each cleaning solution as applied in each cleaning operation;
 - iii) The weight of VOM per volume and the volume of each as-used cleaning solution; and
 - iv) The total monthly VOM emissions from cleaning operations at the source.
- C) Notify the Agency of any record that shows ~~when that~~ the combined emissions of VOM from cleaning operations at the source, other than cleaning operations ~~identified in subsection (a)(2) of this Section, ever~~ equal or exceed 226.8 kg/month (500 lbs/month); ~~without in the absence of~~ air pollution control equipment; within 30 days after the event occurs.
- 2) All sources subject to ~~the requirements of~~ this Section must ~~shall~~:
- A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
- i) A declaration that all subject cleaning operations are in compliance with the requirements of this Section;

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- ii) Identification of each subject cleaning operation and each VOM-containing cleaning solution used as of the date of certification in ~~the~~such operation;
 - iii) If complying with the emissions control system requirement, what type of emissions control system will be used;
 - iv) Initial documentation that each subject cleaning operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - v) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - vi) A description of the practices and procedures that the source will follow to ensure compliance with ~~the limitations in~~ subsection (d); and, if applicable, subsection (b)(4); and
 - vii) A description of each cleaning operation exempt ~~underpursuant to~~ subsection (a)(2), if any, and a listing of the emission units on which the exempt cleaning operation is performed.
- B) At least 30 calendar days before changing the method of compliance between subsections (b)(1), (b)(2), (b)(4), or (b)(5) and subsection (b)(3) ~~of this Section~~, notify the Agency in writing of ~~the~~such change. The notification ~~must~~shall include a demonstration of compliance with the newly applicable subsection;
- 3) All sources complying with this Section ~~underpursuant to the requirements of subsection (b)(1) must of this Section shall~~ collect and record the following information for each cleaning solution used:
 - A) For each cleaning solution that is prepared at the source with automatic equipment:

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- i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks.
- B) For each batch of cleaning solution that is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date, time of preparation, and each subsequent modification of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if ~~the~~ such manufacturer's specifications are based on

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results of tests of the VOM content conducted in
~~compliance~~ ~~accordance~~ with methods ~~specified~~ in Section
218.105(a) ~~of this Part;~~

- 4) All sources complying with this Section ~~underpursuant to the requirements~~
~~of subsection (b)(2) must of this Section shall~~ collect and record the
following information for each cleaning solution used:
 - A) The name and identification of each cleaning solution;
 - B) Date, time of preparation, and each subsequent modification of the
batch;
 - C) The molecular weight, density, and VOM composite partial vapor
pressure of each cleaning solvent, as determined in
~~compliance~~ ~~accordance~~ with the applicable methods and procedures
~~specified~~ in Section 218.110 ~~of this Part;~~
 - D) The total amount of each cleaning solvent used to prepare the as-
used cleaning solution; and
 - E) The VOM composite partial vapor pressure of each as-used
cleaning solution, as determined in ~~compliance~~ ~~accordance~~ with the
applicable methods and procedures ~~specified~~ in Section 218.110 ~~of this Part;~~
- 5) All sources complying with this Section ~~underpursuant to the requirements~~
~~of subsection (b)(3) must of this Section shall~~ comply with the following:
 - A) By January 1, 2012, or upon initial start-up of the source,
whichever is later, and upon initial start-up of a new emissions
control system, include in the certification required by subsection
(e)(3) ~~of this Section~~ a declaration that the monitoring equipment
required under subsection (f) ~~of this Section~~ has been properly
installed and calibrated according to manufacturer's specifications ~~;~~
 - B) If testing of an emissions control system is conducted
~~underpursuant to~~ subsection (g) ~~of this Section~~, the owner or
operator ~~must~~ ~~shall~~, within 90 days after conducting ~~the such~~
testing, submit a copy of all test results to the Agency and

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~~must~~shall submit a certification to the Agency that includes ~~the following:~~

- i) A declaration that all tests and calculations necessary to demonstrate compliance with subsection (b)(3) ~~of this Section~~ have been properly performed;
- ii) A statement whether the subject cleaning operation is or is not in compliance with subsection (b)(3) ~~of this Section~~; and
- iii) The operating parameters of the emissions control system during testing, as monitored in ~~compliance~~accordance with subsection (f) ~~of this Section~~;

C) Collect and record daily the following information for each cleaning operation subject to ~~the requirements of~~ subsection (b)(3) ~~of this Section~~:

- i) Emissions control system monitoring data in ~~compliance~~accordance with subsection (f) ~~of this Section~~, as applicable;
- ii) A log of operating time for the emissions control system, monitoring equipment, and the associated cleaning equipment; and
- iii) A maintenance log for the emissions control system and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.;

D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records ~~must~~shall include:

- i) Records for periodic inspection of the cleaning equipment and emissions control system equipment with date of

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- inspection, individual performing the inspection, and nature of inspection; and
- ii) Records for repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM released into the atmosphere ~~because as a result~~ of the incident;
- 6) All sources complying with this Section ~~underpursuant to the requirements of subsection (b)(5) must of this Section shall~~ collect and record monthly the following information for each cleaning operation subject to ~~the requirements of subsection (b)(5) of this Section~~:
- A) The name, identification, and volume of each VOM-containing cleaning solution as applied in each cleaning operation;
- B) The volume of each fresh cleaning solvent used for cleaning coating, ink, adhesive, or resin manufacturing equipment; and
- C) The volume of cleaning solvent recovered for either offsite or onsite reuse or recycling for further use in the cleaning of coating, ink, adhesive, or resin manufacturing equipment. ~~;~~
- 7) The owner or operator of a source with cleaning operations that fall under one or more of the exclusions ~~set forth~~ in subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii), including sources exempt from ~~the limitations of this Section under because of the criteria in~~ subsection (a)(1), ~~must~~shall:
- A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes a declaration that the source has cleaning operations that fall under at least one ~~or more of the exclusions set forth~~ in subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii), and a statement identifying each ~~such~~ cleaning operation and the exclusion applicable to each cleaning operation;
- B) Collect and record the name, identification, and volume of each cleaning solvent as applied each day in each cleaning operation

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that falls under at least one or more of the exclusions set forth in subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii); and

- C) Notify the Agency in writing if the amount of cleaning solvent used in the cleaning of medical device and pharmaceutical manufacturing operations or of sterilization indicating ink application equipment at the source ever exceeds 5.7 liters (1.5 gallons) per day, or if the amount of aerosol cleaning products used at the source ever exceeds 4.7 liters (1.25 gallons) per day, within 30 days after the exceedance occurs.
- 8) The owner or operator of a source with cleaning operations that fall under at least one or more of the exclusions set forth in subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix), including sources exempt from ~~the limitations of this Section~~ under because of the criteria in subsection (a)(1), ~~must~~ shall:
 - A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes a declaration that the source has cleaning operations that fall under at least one or more of the exclusions set forth in subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix), and a statement identifying each ~~such~~ cleaning operation and the exclusion applicable to each cleaning operation;
 - B) Collect and record the name, identification, volume, and VOM content of each cleaning solvent as applied each month in each cleaning operation that falls under at least one or more of the exclusions set forth in subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix);
 - C) For cleaning operations that fall under the exclusion set forth in subsection (a)(2)(C)(xviii), collect and record each month information demonstrating that the exempt cleaning solvent is being used only to clean ~~exclusively for the cleaning of~~ plastic-based or vinyl-based substrates used for use in the screen printing process when using UV curable ink and coating systems; and
 - D) For cleaning operations that fall under the exclusion set forth in subsection (a)(2)(C)(xix), collect and record each month information demonstrating that the exempt cleaning solvent is

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being used ~~only~~exclusively for production line performance testing of coatings that are in research and development and are not yet commercially used for the applications for which they are being tested.

- 9) All sources subject to ~~the requirements of~~ subsections (b) and (d) ~~must of this Section shall~~ notify the Agency of any violation of subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the violation occurs, occurrence of the violation;~~
- 10) All records required by this subsection (e) ~~must shall~~ be retained by the source for at least three years and ~~must shall~~ be made available to the Agency upon request.

f) Monitoring Requirements

- 1) If an afterburner is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must of this Section shall~~:
- A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of ~~3 °C~~3°C or ~~5 °F~~5°F on the emissions control system in ~~compliance accordance~~ with Section 218.105(d)(2) ~~of this Part and in compliance accordance~~ with the manufacturer's specifications. Monitoring ~~must shall~~ be performed at all times when the emissions control system is operating; and
- B) Install, calibrate, operate, and maintain, in ~~compliance accordance~~ with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- 2) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must shall~~ use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment ~~must shall~~ monitor the VOM concentration of each carbon adsorption bed or the exhaust of the bed next in sequence to be desorbed.

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- 3) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must of this Section shall~~ install, maintain, calibrate, and operate ~~thesuch~~ monitoring equipment ~~underas set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~underpursuant to~~ subsection (b)(3).

g) Testing Requirements

- 1) Testing to demonstrate compliance with ~~the requirements of~~ this Section ~~mustshall~~ be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. ~~TheSuch~~ testing ~~mustshall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~mustshall~~ notify the Agency in writing 30 days ~~beforein advance of~~ conducting the testing to allow the Agency to be present during the testing;
- 2) Testing to demonstrate compliance with the VOM content limitations in subsection (b)(1) ~~of this Section,~~ and to determine the VOM content of cleaning solvents and cleaning solutions ~~must, shall~~ be conducted as follows:
- A) The applicable test methods and procedures ~~specified in~~ Section 218.105(a) ~~must of this Part shall~~ be used, ~~provided;~~ however, Method 24, incorporated by reference in Section 218.112 ~~of this Part, mustshall~~ be used to demonstrate compliance; or
- B) The manufacturer's specifications for VOM content for cleaning solvents may be used if ~~thesuch~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~complianceaccordance~~ with methods ~~specified in~~ Section 218.105(a) of this Part; ~~provided,~~ however, Method 24 ~~mustshall~~ be used to determine compliance. ~~If there isIn the event of~~ any inconsistency between a Method 24 test and the manufacturer's specifications, the Method 24 test ~~mustshall~~ govern;
- 3) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions ~~mustshall~~ be conducted in ~~complianceaccordance~~ with the

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applicable methods and procedures ~~specified in Section 218.110 of this Part;~~

- 4) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) ~~must~~shall be used for testing to demonstrate compliance with ~~the requirements of subsection (b)(3) of this Section,~~ as follows:
- A) To select the sampling sites, Method 1 or 1A, as appropriate, at 40 CFR 60. Appendix A-160, appendix A, incorporated by reference in Section 218.112 ~~of this Part;~~
 - B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, at 40 CFR 60. Appendix A-160, appendix A, incorporated by reference in Section 218.112 ~~of this Part;~~
 - C) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, at 40 CFR 60. Appendix A-760, appendix A, incorporated by reference in Section 218.112 ~~of this Part.~~ For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - i) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;
 - ii) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; or and
 - iii) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated

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compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25.

- D) During testing, the cleaning equipment ~~must~~shall be operated at representative operating conditions and flow rates;
- 5) An owner or operator using an emissions control system other than an afterburner or carbon adsorber ~~must~~shall conduct testing to demonstrate compliance with ~~the requirements of subsection (b)(3) under of this Section as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions ~~under pursuant to~~ subsection (b)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART F: COATING OPERATIONS

Section 218.204 Emission Limitations

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Except ~~under as provided in~~ Sections 218.205, 218.207, 218.208, 218.212, 218.215, and 218.216 ~~of this Subpart, an~~ owner or operator of a coating line ~~must not~~shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in subsections (a), (c), (g), (h), ~~(j)~~, (l), ~~(n)~~, (p), and (q) ~~of this Section~~, compliance with the emission limitations ~~marked with an asterisk~~ in this Section is required on and after March 15, 1996, ~~and compliance with emission limitations not marked with an asterisk is required until March 15, 1996~~. The following emission limitations are expressed in units of VOM per volume of coating ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water ~~to calculate for the purpose of calculating~~ the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures ~~specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(c) of this Subpart~~ except

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where noted. (Note: The equation ~~presented~~ in Section 218.206 ~~must of this Part shall~~ be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades, and cross-line averaging.) ~~The emission limitations are as follows:~~

a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal
1)	Prior to May 1, 2012:		
A)	Prime coat	0.14 0.14*	(1.2) (1.2)*
B)	Primer surface coat	1.81 1.81*	(15.1) (15.1)*

BOARD NOTE: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topecoat protocol referenced in Section 218.105(b)(1)(A) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topecoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.

C)	Topecoat	kg/l	lb/gal
		1.81 1.81*	(15.1) (15.1)*

BOARD NOTE: The topecoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily weighted average from an entire topecoat operation. Compliance shall be demonstrated in accordance with the topecoat protocol referenced in Section 218.105(b)(1)(A) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topecoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topecoat limitation.

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~~D)~~	~~Final repair coat~~	kg/l	lb/gal
		0.58	(4.8)
		0.58*	(4.8)*

~~2) On and after May 1, 2012, subject automobile and light duty truck coating lines shall comply with the following limitations. These limitations must~~ shall not apply to materials supplied in containers with a net volume of 0.47 ~~liters~~ (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less:

~~1A)~~ Electrodeposition primer (EDP) operations. For ~~purposes of this subsection (a)(1)(a)(2)(A),~~ "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.

		kg VOM/l coating solids applied	lb VOM/gal coating solids applied
~~Ai)~~	When solids turnover ratio (R _T) is ~~at least greater than or equal to~~ 0.160	0.084	(0.7)
~~Bi)~~	When R _T is ~~at least greater than or equal to~~ 0.040 and less than 0.160	0.084 x 350 ^{0.160-R_T}	(0.084 x 350 ^{0.160-R_T} x 8.34)

~~2B)~~ Primer surfacer operations

	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited

~~Ai)~~	VOM content limitation	1.44	(12.0)

~~Bi)~~ Compliance with the limitation ~~set forth~~ in subsection ~~(a)(2)(A) must (a)(2)(B)(i) shall~~ be based on the daily-weighted average from an entire primer surfacer operation.

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Compliance ~~must~~shall be demonstrated in ~~compliance~~accordance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~must~~shall be performed in ~~compliance~~accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.

~~3E)~~	Topcoat operations	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited

~~Ai)~~	VOM content limitation	1.44	(12.0)

~~Bii)~~ Compliance with the limitation ~~set forth~~ in subsection ~~(a)(3)(A) must~~(a)(2)(C)(i) shall be based on the daily-weighted average from an entire topcoat operation. Compliance ~~must~~shall be demonstrated in ~~compliance~~accordance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~must~~shall be performed in ~~compliance~~accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the topcoat limitation.

~~4D)~~	Combined primer surfacer and topcoat operations	kg VOM/l coating solids deposited	lb VOM/gal coating solids deposited

~~Ai)~~	VOM content limitation	1.44	(12.0)

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B#) Compliance with the limitation ~~set forth~~ in subsection ~~(a)(4)(A) must(a)(2)(D)(i) shall~~ be based on the daily-weighted average from the combined primer surfacer and topcoat operations. Compliance ~~mustshall~~ be demonstrated in ~~complianceaccordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~mustshall~~ be performed in ~~complianceaccordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the combined primer surfacer and topcoat limitation.

<u>5E)</u> Final repair coat operations	kg/l coatings	lb/gal coatings

<u>A#)</u> VOM content limitation	0.58	(4.8)

B#) Compliance with the ~~final repair operations~~ limitation ~~set forth~~ in subsection ~~(a)(5)(A) must(a)(2)(E)(i) shall~~ be on an occurrence-weighted average basis, calculated in ~~complianceaccordance~~ with the equation below, in which clear coatings ~~mustshall~~ have a weighting factor of 2 and all other coatings ~~mustshall~~ have a weighting factor of 1. For ~~purposes of~~ this subsection ~~(a)(5)(B)(a)(2)(E)(ii)~~, an "occurrence" is the application of the combination of coatings that constitute a final repair coat for a single automobile or light-duty truck. Section 218.205 does not apply to the final repair coat limitation.

$$VOM_{tot} = \frac{2VOM_{cc} + \sum_{i=1}^n VOM_i}{n + 2}$$

where:

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- VOM_{tot} = Total VOM content of all coatings, as applied, on an occurrence weighted average basis, and used to determine compliance with this subsection ~~(a)(5)(a)(2)(E)~~.
- i = Subscript denoting a specific coating applied.
- n = Total number of coatings applied in the final repair operation, other than clear coatings.
- VOM_{cc} = The VOM content, as applied, of the clear coat used in the final repair operation.
- VOM_i = The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

~~(F)~~ Miscellaneous Materials. For reactive adhesives subject to this subsection ~~(a)(6)(a)(2)(F)~~, compliance ~~must~~shall be demonstrated in ~~compliance~~accordance with the methods and procedures ~~set forth in appendix A to Subpart PPPP of 40 CFR 63, Subpart PPPP, Appendix A,~~ incorporated by reference in Section 218.112 ~~of this Part.~~

		kg/l	lb/gal
~~A)~~	Glass bonding primer	0.90	(7.51)
~~B)~~	Adhesive	0.25	(2.09)
~~C)~~	Cavity wax	0.65	(5.42)
~~D)~~	Trunk sealer	0.65	(5.42)
~~E)~~	Deadener	0.65	(5.42)
~~F)~~	Gasket/gasket sealing material	0.20	(1.67)
~~G)~~	Underbody coating	0.65	(5.42)
~~H)~~	Trunk interior coating	0.65	(5.42)

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	~~Iix~~	Bedliner	0.20	(1.67)
	~~Jx~~	Weatherstrip adhesive	0.75	(6.26)
	~~Kxi~~	Lubricating wax/compound	0.70	(5.84)
b)	Can Coating		kg/l	lb/gal
1)	Sheet basecoat and overvarnish			
A)	Sheet basecoat		~~0.34~~ 0.26 [±]	~~(2.8)~~ (2.2) [±]
B)	Overvarnish		~~0.34~~ 0.34	~~(2.8)~~ (2.8) [±]
2)	Exterior basecoat and overvarnish			
			~~0.34~~ 0.25 [±]	~~(2.8)~~ (2.1) [±]
3)	Interior body spray coat			
A)	Two piece		~~0.51~~ 0.44 [±]	~~(4.2)~~ (3.7) [±]
B)	Three piece		~~0.51~~ 0.51 [±]	~~(4.2)~~ (4.2) [±]
4)	Exterior end coat			
			~~0.51~~ 0.51 [±]	~~(4.2)~~ (4.2) [±]
5)	Side seam spray coat			
			~~0.66~~ 0.66 [±]	~~(5.5)~~ (5.5) [±]
6)	End sealing compound coat			
			~~0.44~~ 0.44 [±]	~~(3.7)~~ (3.7) [±]
c)	Paper Coating			
1)	~~Prior to May 1, 2011:~~		~~kg/l~~	~~lb/gal~~

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		~~0.28~~	~~(2.3)~~
2)	~~On and after May 1, 2011~~ <u>The owner or operator must comply with either the limit in weight of VOM per weight of solids applied or weight of VOM per weights of coatings applied:</u>	kg VOM/kg (lb VOM/lb) solids applied	kg VOM/kg (lb VOM/lb) coatings applied
A)	Pressure sensitive tape and label surface coatings	0.20 ~~(0.20)~~	(0.067) ~~(0.067)~~
B)	All other paper coatings	0.40 ~~(0.40)~~	(0.08) ~~(0.08)~~
23)	The paper coating limitation ~~set forth~~ in this subsection (c) ~~does~~ <u>shall</u> not apply to any owner or operator of any paper coating line on which flexographic, rotogravure, lithographic, or letterpress printing is performed if the paper coating line complies with the applicable emissions limitations in Subpart H ~~of this Part~~ . In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT ~~of this Part~~ . ~~The~~ <u>On and after May 1, 2011, the</u> paper coating limitation ~~shall~~ <u>also does</u> not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.		
d)	Coil Coating	kg/l ~~0.31~~ 0.20 [*]	lb/gal ~~(2.6)~~ (1.7) [*]
e)	Fabric Coating	~~0.35~~ 0.28 [*]	~~(2.9)~~ (2.3) [*]
f)	Vinyl Coating	~~0.45~~ 0.28 [*]	~~(3.8)~~ (2.3) [*]
g)	Metal Furniture Coating		
4)	~~Prior to May 1, 2011:~~		

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	~~A) Air dried~~	~~kg/l 0.34~~	~~lb/gal (2.8)~~
	~~B) Baked~~	~~0.28~~	~~(2.3)~~
<u>12)</u>	<u>On and after May 1, 2011 The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied:</u>	<u>kg/l (lb/gal) (coatings applied)</u>	<u>kg/l (lb/gal) solids applied</u>
	A) General, One-Component	0.275 (2.3)	0.40 (3.3)
	B) General, Multi-Component		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.275 (2.3)	0.40 (3.3)
	C) Extreme High Gloss		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
	D) Extreme Performance		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)

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E)	Heat Resistant		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
F)	Metallic	0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)

23) ~~The~~ On and after May 1, 2011, the limitations set forth in this subsection (g) ~~do not~~ shall not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications ~~using~~ utilizing hand-held aerosol cans.

h) Large Appliance Coating

<u>4)</u>	~~Prior to May 1, 2011:~~	kg/l	lb/gal
	A) ~~Air dried~~	0.34	(2.8)
	B) ~~Baked~~	0.28	(2.3)
<u>12)</u>	<u>On and after May 1, 2011The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied:</u>	kg/l (lb/gal) (coatings applied)	kg/l (lb/gal) solids applied

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A)	General, One Component	0.275 (2.3)	0.40 (3.3)
B)	General, Multi-Component		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.275 (2.3)	0.40 (3.3)
C)	Extreme High Gloss		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
D)	Extreme Performance		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
E)	Heat Resistant		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
F)	Metallic	0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		

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i)	Air dried	0.420 (3.5)	0.80 (6.7)
ii)	Baked	0.360 (3.0)	0.61 (5.1)

~~23)~~ The limitations ~~set forth~~ in this subsection (h) ~~do shall~~ not apply to the use of quick-drying lacquers ~~to repair for repair of~~ scratches and nicks that occur during assembly, ~~if provided that~~ the volume of coating does not exceed 0.95 ~~l+ (1 quart)~~ in any one rolling eight-hour period. ~~These~~ ~~On and after May 1, 2011, these~~ limitations ~~shall~~ also ~~do not~~ apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications ~~using~~ ~~utilizing~~ hand-held aerosol cans.

i)	Magnet Wire Coating	kg/l ~~0.20~~ 0.20*	lb/gal ~~(1.7)~~ (1.7)*
j)	~~Prior to May 1, 2012:~~ Miscellaneous Metal Parts and Products Coating		
1)	~~Clear coating~~	~~0.52~~ ~~0.52*~~	~~(4.3)~~ ~~(4.3)*~~
2)	~~Extreme performance coating~~		
A)	~~Air dried~~	~~0.42~~ ~~0.42*~~	~~(3.5)~~ ~~(3.5)*~~
B)	~~Baked~~	~~0.42~~ ~~0.40*~~	~~(3.5)~~ ~~(3.3)*~~
3)	~~Steel pail and drum interior coating~~	~~0.52~~ ~~0.52*~~	~~(4.3)~~ ~~(4.3)*~~
4)	~~All other coatings~~		
A)	~~Air dried~~	~~0.42~~ ~~0.40*~~	~~(3.5)~~ ~~(3.3)*~~

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B)	Baked	0.36 0.34*	(3.0) (2.8)*
- 5) Marine engine coating
- | | | | |
|----|----------------------------------|---------------|-----------------|
| A) | Air-dried | 0.42
0.42* | (3.5)
(3.5)* |
| B) | Baked | | |
| | i) Primer/Topecoat | 0.42
0.42* | (3.5)
(3.5)* |
| | ii) Corrosion resistant basecoat | 0.42
0.28* | (3.5)
(2.3)* |
| C) | Clear Coating | 0.52
0.52* | (4.3)
(4.3)* |
- 6) Metallic Coating
- | | | | |
|----|-----------|---------------|-----------------|
| A) | Air-dried | 0.42
0.42* | (3.5)
(3.5)* |
| B) | Baked | 0.36
0.36 | (3.0)
(3.0)* |
- 7) ~~Definitions-~~
- A) ~~For purposes of subsection (j)(5) of this Section, the following terms are defined:-~~
- i) ~~"Corrosion resistant basecoat" means, for purposes of subsection (j)(5)(B)(ii) of this Section, a water borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance.-~~
- ii) ~~"Electrodeposition process" means, for purposes of subsection (j)(5) of this Section, a water borne dip coating process in which opposite electrical charges are applied to-~~

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~~the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.~~

~~iii) "Marine engine coating" means, for purposes of subsection (j)(5) of this Section, any extreme performance protective, decorative or functional coating applied to an engine that is used to propel watercraft.~~

~~B) For purposes of subsection (j)(6) of this Section, "metallic coating" means a coating which contains more than 1/4 lb/gal of metal particles, as applied.~~

~~BOARD NOTE:~~ On and after May 1, 2012, the limitations in Section 218.204(q) ~~shall~~ apply to this category of coating.

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
2)	Extreme performance topcoat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
3)	Final repair coat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection ~~(q)(i)~~ .		

l) Wood Furniture Coating

~~1)~~	~~Limitations before March 15, 1998:~~	~~kg/l~~	~~lb/gal~~
~~A)~~	~~Clear topcoat~~	~~0.67~~	~~(5.6)~~
~~B)~~	~~Opaque stain~~	~~0.56~~	~~(4.7)~~
~~C)~~	~~Pigmented coat~~	~~0.60~~	~~(5.0)~~

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~~D)~~	~~Repair coat~~	~~0.67~~	~~(5.6)~~
~~E)~~	~~Sealer~~	~~0.67~~	~~(5.6)~~
~~F)~~	~~Semi-transparent stain~~	~~0.79~~	~~(6.6)~~
~~G)~~	~~Wash coat~~	~~0.73~~	~~(6.1)~~

~~BOARD NOTE: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all coatings, with the exception of no more than 37.8 l (10 gal) of coating per day used for touch up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.~~

- ~~1)2)~~ WoodOn and after March 15, 1998, wood furniture sealers and topcoats must comply with one of the limitations ~~specified~~ in subsections ~~(1)(1)(A)(1)(2)(A)~~ through (E):

		kg VOM/ kg solids	lb VOM/ lb solids
A)	Topcoat	0.8	(0.8)
B)	Sealers and topcoats with the following limits:		
i)	Sealer other than acid-cured alkyd amino vinyl sealer	1.9	(1.9)
ii)	Topcoat other than acid-cured alkyd amino conversion varnish topcoat	1.8	(1.8)

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iii)	Acid-cured alkyd amino vinyl sealer	2.3	(2.3)
iv)	Acid-cured alkyd amino conversion varnish topcoat	2.0	(2.0)

- C) Meet the provisions of Section 218.215 ~~to use of this Subpart for use of~~ an averaging approach;
- D) Achieve a reduction in emissions equivalent to the requirements of subsection ~~(1)(1)(A)(4)(2)(A)~~ or (B) ~~of this Section~~, as calculated using Section 218.216 ~~of this Subpart~~; or
- E) Use a combination of the methods ~~specified in subsections (1)(1)(A)(4)(2)(A) through (D) of this Section~~.

23) Other wood furniture coating limitations ~~on and after March 15, 1998~~:

		kg/l	lb/gal
A)	Opaque stain	0.56	(4.7)
B)	Non-topcoat pigmented coat	0.60	(5.0)
C)	Repair coat	0.67	(5.6)
D)	Semi-transparent stain	0.79	(6.6)
E)	Wash coat	0.73	(6.1)

34) Other wood furniture coating requirements ~~on and after March 15, 1998~~:

- A) ~~A~~ ~~No~~ source subject to the limitations of subsection ~~(1)(1) or (1)(2) or (3) of this Section~~ and ~~using~~ ~~utilizing at least one or more~~ wood furniture coating spray ~~booth~~ ~~booths must not~~ ~~shall~~ use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.

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- B) Any source subject to the limitations of subsection ~~(1)(1) or (1)(2) or (3)~~ must of this Section shall comply with ~~the requirements of Section 218.217 of this Subpart.~~
- C) Any source subject to the limitations of subsection ~~(1)(1)(A)(1)(2)(A) or (B) of this Section~~ and usingutilizing one or more continuous coaters mustshall, for each continuous coater, use an initial coating which complies with the limitations of subsection ~~(1)(1)(A)(1)(2)(A) or (B) of this Section.~~ The viscosity of the coating in each reservoir mustshall always be at least greater than ~~or equal to~~ the viscosity of the initial coating in the reservoir. The owner or operator mustshall:
- i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;
 - ii) Collect and record the reservoir viscosity and the amount and weight of VOM per weight of solids of coating and solvent each time coating or solvent is added; and
 - iii) Maintain these records at the source for a period of ~~three~~ years.

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	~~0.42~~ 0.42 [*]	~~(3.5)~~ (3.5) [*]
2)	Extreme performance top-coat (air dried)	~~0.42~~ 0.42 [*]	~~(3.5)~~ (3.5) [*]
3)	Final repair coat (air dried)	~~0.42~~ 0.42 [*]	~~(3.5)~~ (3.5) [*]
4)	High-temperature aluminum coating	~~0.72~~ 0.72 [*]	~~(6.0)~~ (6.0) [*]

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5)	All other coatings	~~0.36~~ 0.36*	~~(3.0)~~ (3.0)*
n)	~~Prior to May 1, 2012:~~ Plastic Parts Coating: Automotive/Transportation	~~kg/l~~	~~lb/gal~~
1)	~~Interiors~~		
	~~A) Baked~~		
	~~i) Color-coat~~	~~0.49*~~	~~(4.1)*~~
	~~ii) Primer~~	~~0.46*~~	~~(3.8)*~~
	~~B) Air-dried~~		
	~~i) Color-coat~~	~~0.38*~~	~~(3.2)*~~
	~~ii) Primer~~	~~0.42*~~	~~(3.5)*~~
2)	~~Exteriors (flexible and non-flexible)~~		
	~~A) Baked~~		
	~~i) Primer~~	~~0.60*~~	~~(5.0)*~~
	~~ii) Primer non-flexible~~	~~0.54*~~	~~(4.5)*~~
	~~iii) Clear-coat~~	~~0.52*~~	~~(4.3)*~~
	~~iv) Color-coat~~	~~0.55*~~	~~(4.6)*~~
	~~B) Air-dried~~		
	~~i) Primer~~	~~0.66*~~	~~(5.5)*~~
	~~ii) Clear-coat~~	~~0.54*~~	~~(4.5)*~~
	~~iii) Color-coat (red & black)~~	~~0.67*~~	~~(5.6)*~~

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	iv)	~~Color coat (others)~~	0.61*	(5.1)*
3)		~~Specialty~~		
	A)	~~Vacuum metallizing basecoats, texture base coats~~	0.66*	(5.5)*
	B)	~~Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings~~	0.71*	(5.9)*
	C)	~~Gloss reducers, vacuum metallizing topecoats, and texture topecoats~~	0.77*	(6.4)*
	D)	~~Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings~~	0.82*	(6.8)*
	E)	~~Headlamp lens coatings~~	0.89*	(7.4)*
	~~BOARD NOTE: On and after May 1, 2012, the limitations in Section 218.204(q) 218.240(q) shall apply to this category of coating.~~			
o)		~~Prior to May 1, 2012: Plastic Parts Coating: Business Machine~~	kg/l	lb/gal
	1)	~~Primer~~	0.14*	(1.2)*
	2)	~~Color coat (non texture coat)~~	0.28*	(2.3)*
	3)	~~Color coat (texture coat)~~	0.28*	(2.3)*
	4)	~~Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings~~	0.48*	(4.0)*
	5)	~~Specialty coatings~~		
	A)	~~Soft coat~~	0.52*	(4.3)*

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B)	Plating-resist	0.71*	(5.9)*
C)	Plating-sensitizer	0.85*	(7.1)*

~~BOARD NOTE:~~ On and after May 1, 2012, the limitations in Section 218.204(q) ~~shall~~ apply to this category of coating.

- p) Flat Wood Paneling Coatings. ~~Flat~~ On and after August 1, 2010, ~~flat~~ wood paneling coatings ~~must~~shall comply with one of the following limitations:
- 1) 0.25 kg ~~VOM/l~~VOM/4 of coatings (2.1 lb VOM/gal coatings); or
 - 2) 0.35 kg ~~VOM/l~~VOM/4 solids (2.9 lb VOM/gal solids).
- q) Miscellaneous Metal Parts and Products Coatings and Plastic Parts and Products Coatings ~~On and after May 1, 2012. The~~ On and after May 1, 2012, the owner or operator of a miscellaneous metal or plastic parts coating line ~~must~~shall comply with the limitations in this subsection ~~(q)~~. The limitations in this subsection ~~(q)~~ ~~do~~shall not apply to ~~aerosol coating products, powder coatings, or primer sealants~~ and ejection cartridge sealants used in ammunition manufacturing, aerosol coating products, or powder coatings. Primer sealants and ejection cartridge sealants ~~are~~shall instead be regulated under Subpart TT ~~of this Part~~.
- 1) Metal Parts and Products. For ~~purposes of~~ this subsection (q)(1), "corrosion resistant basecoat" means a water-borne epoxy coating applied via an electrodeposition process to a metal surface ~~before~~prior to spray coating, ~~to enhance for the purpose of enhancing~~ corrosion resistance. The limitations in this subsection (q)(1) ~~do~~shall not apply to stencil coats, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating. The limitations in Section 218.219, ~~however, shall~~ apply to these coatings unless specifically excluded in Section 218.219. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

kg/l	kg/l
(lb/gal)	(lb/gal)

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		coatings	solids
A)	General one component coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
B)	General multi-component coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
C)	Camouflage coating	0.42 (3.5)	0.80 (6.67)
D)	Electric-insulating varnish	0.42 (3.5)	0.80 (6.67)
E)	Etching filler	0.42 (3.5)	0.80 (6.67)
F)	Extreme high-gloss coating		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36 (3.0)	0.61 (5.06)
G)	Extreme performance coating		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36	0.61

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		(3.0)	(5.06)
H)	Heat-resistant coating		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36 (3.0)	0.61 (5.06)
I)	High performance architectural coating	0.42 (3.5)	0.80 (6.67)
J)	High temperature coating	0.42 (3.5)	0.80 (6.67)
K)	Metallic coating		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36 (3.0)	0.61 (5.06)
L)	Military specification coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
M)	Mold-seal coating	0.42 (3.5)	0.80 (6.67)
N)	Pan backing coating	0.42 (3.5)	0.80 (6.67)
O)	Prefabricated architectural coating: multi-component		

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	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.28 (2.3)	0.40 (3.35)
P)	Prefabricated architectural coating: one-component			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.28 (2.3)	0.40 (3.35)
Q)	Pretreatment coating		0.42 (3.5)	0.80 (6.67)
R)	Repair coats and touch-up coatings			
	i)	Air dried	0.42 (3.5)	
	ii)	Baked	0.36 (3.01)	
S)	Silicone release coating		0.42 (3.5)	0.80 (6.67)
T)	Solar-absorbent coating			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
U)	Vacuum-metalizing coating		0.42 (3.5)	0.80 (6.67)

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V)	Drum coating, new, exterior	0.34 (2.8)	0.54 (4.52)
W)	Drum coating, new, interior	0.42 (3.5)	0.80 (6.67)
X)	Drum coating, reconditioned, exterior	0.42 (3.5)	0.80 (6.67)
Y)	Drum coating, reconditioned, interior	0.50 (4.2)	1.17 (9.78)
Z)	Ammunition Sealants		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36 (5.06)	(3.0) 0.61
AA)	Electrical switchgear compartment coatings		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.36 (5.06)	(3.0) 0.61
~~BB)~~	~~All other coatings~~		
	~~i) Air dried~~	~~0.40 (3.3)~~	~~0.73 (5.98)~~
	~~ii) Baked~~	~~0.34 (4.52)~~	~~(2.8) 0.54~~

Commented [SKA37]: "0.61" is on file. If the agency wants to change these numbers track changes must be used.

Commented [SKA38]: "(3.0) (5.06)" are on file. If the agency wants to change these numbers track changes must be used.

Commented [SKA39]: "0.61" is on file. If the agency wants to change these numbers track changes must be used.

Commented [SKA40]: "(3.0) (5.06)" are on file. If the agency wants to change these numbers track changes must be used.

- 2) Plastic Parts and Products: Miscellaneous. For purposes of this subsection (q)(2), miscellaneous plastic parts and products are plastic parts and products that are not subject to subsection (q)(3), (q)(4), (q)(5), or

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(q)(6)~~of this Section~~. The limitations in subsection (q)(2) ~~do shall~~ not apply to touch-up and repair coatings; stencil coats applied on clear or transparent substrates; clear or translucent coatings; coatings applied at a paint manufacturing facility while conducting performance tests on the coatings; any individual coating category used in volumes less than 189.2 ~~liters~~ (50 ~~gal~~gallons) in any one calendar year, if the total usage of all ~~such~~ coatings does not exceed 756.9 ~~liters~~ (200 ~~gal~~gallons) per calendar year per source and substitute compliant coatings are not available; reflective coatings applied to highway cones; mask coatings that are less than 0.5 mm thick (dried) if the area coated is less than 25 square inches; electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings; and heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices if the total usage of all ~~such~~ coatings does not exceed 378.4 ~~liters~~ (100 ~~gal~~gallons) per calendar year per source. The limitations in Section 218.219, ~~however, shall~~ apply to ~~these such~~ coatings unless specifically excluded in Section 218.219. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	General one component coating	0.28 (2.3)	0.40 (3.35)
B)	General multi-component	0.42 (3.5)	0.80 (6.67)
C)	Electric dissipating coatings and shock-free coatings	0.80 (6.7)	8.96 (74.7)
D)	Extreme performance (2-pack coatings)	0.42 (3.5)	0.80 (6.67)
E)	Metallic coating	0.42 (3.5)	0.80 (6.67)
F)	Military specification coating		

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i)	1-pack coatings	0.28 (2.3)	0.54 (4.52)
ii)	2-pack coatings	0.42 (3.5)	0.80 (6.67)
G)	Mold-seal coating	0.76 (6.3)	5.24 (43.7)
H)	Multi-colored coating	0.68 (5.7)	3.04 (25.3)
I)	Optical coating	0.80 (6.7)	8.96 (74.7)
J)	Vacuum-metalizing coating	0.80 (6.7)	8.96 (74.7)

- 3) Plastic Parts and Products: Automotive/Transportation. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	High bake coatings – interior and exterior parts		
i)	Flexible primer	0.54 (4.5)	1.39 (11.58)
ii)	Non-flexible primer	0.42 (3.5)	0.80 (6.67)
iii)	Basecoats	0.52 (4.3)	1.24 (10.34)
iv)	Clear coat	0.48	1.05

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		(4.0)	(8.76)
	v) Non-basecoat/clear coat	0.52 (4.3)	1.24 (10.34)
B)	Low bake/air dried coatings – exterior parts		
	i) Primers	0.58 (4.8)	1.66 (13.80)
	ii) Basecoat	0.60 (5.0)	1.87 (15.59)
	iii) Clear coats	0.54 (4.5)	1.39 (11.58)
	iv) Non-basecoat/clear coat	0.60 (5.0)	1.87 (15.59)
C)	Low bake/air dried coatings – interior parts		
	i) Color coat	0.38 (3.2)	0.67 (5.66)
	ii) Primer	0.42 (3.5)	0.80 (6.67)
D)	Touchup and repair coatings	0.62 (5.2)	2.13 (17.72)
E)	Specialty		
	i) Vacuum metallizing basecoats	0.66 (5.5)	2.62 (21.8)
	ii) Vacuum metallizing topcoats	0.77	6.06

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(6.4) (49.1)

F) Red, yellow, and black coatings: Subject coating lines ~~must~~shall comply with a limit determined by multiplying the appropriate limit in subsections (q)(3)(A) through (q)(3)(C) ~~of this Section~~ by 1.15.

- 4) Plastic Parts and Products: Business Machine. The limitations of this subsection (q)(4) ~~do~~shall not apply to vacuum metallizing coatings, gloss reducers, texture topcoats, adhesion primers, electrostatic preparation coatings, stencil coats, and resist coats other than plating resist coats. The limitations in Section 218.219, ~~however, shall~~ apply to ~~these~~such coatings unless specifically excluded ~~in Section 218.219~~. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	Primers	0.35 (2.9)	0.57 (4.80)
B)	Topcoat	0.35 (2.9)	0.57 (4.80)
C)	Color coat (texture coat)	0.28 (2.3)	0.40 (4.80)
D)	Color coat (non-texture coat)	0.28 (2.3)	0.40 (4.80)
E)	Texture coats other than color texture coats	0.35 (2.9)	0.57 (4.80)
F)	EMI/RFI shielding coatings	0.48 (4.0)	1.05 (8.76)
G)	Fog coat	0.26 (2.2)	0.38 (3.14)

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H) Touchup and repair 0.35 0.57

- 5) Pleasure Craft Surface Coatings: The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	Extreme high gloss coating – topcoat	0.60 (5.0)	1.88 (15.6)
B)	High gloss coating – topcoat	0.42 (3.5)	0.80 (6.7)
C)	Pretreatment wash primer	0.78 (6.5)	6.67 (55.6)
D)	Finish primer/surfacer	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	<u>Prior to January 1, 2014</u>	<u>0.60</u> <u>(5.0)</u>	<u>1.88</u> <u>(15.6)</u>
	<u>On and after January 1, 2014</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
E)	High build primer/surfacer	0.34 (2.8)	0.55 (4.6)
F)	Aluminum substrate antifoulant coating	0.56 (4.7)	1.53 (12.8)
G)	Other substrate antifoulant coating	0.40 (3.3)	0.73 (5.8)
H)	Antifouling Sealer/Tie Coat	0.42	0.80

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		(3.5)	(6.7)
I)	All other pleasure craft surface coatings for metal or plastic	0.42 (3.5)	0.80 (6.7)
6)	Motor Vehicle Materials		
		kg/l (lb/gal) coatings	
A)	Cavity wax	0.65 (5.42)	
B)	Sealer	0.65 (5.42)	
C)	Deadener	0.65 (5.42)	
D)	Gasket/gasket sealing material	0.20 (1.67)	
E)	Underbody coating	0.65 (5.42)	
F)	Trunk interior coating	0.65 (5.42)	
G)	Bedliner	0.20 (1.67)	
H)	Lubricating wax/compound	0.70 (5.84)	

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.205 Daily-Weighted Average Limitations

~~An~~ owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this~~
~~Support~~ and complying by means of this Section ~~must not~~~~shall~~ operate the subject coating line

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unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), (h), ~~or (i), (j), or (k) of this Section~~ (depending upon the category of coating) through the applicable coating analysis test methods and procedures ~~specified in Section 218.105(a) of this Part~~ and the recordkeeping and reporting requirements ~~specified in Section 218.211(d) of this Subpart~~:

- a) ~~An~~No owner or operator of a coating line subject to only one of the limitations from among Section ~~218.204(a)(1), (a)(5), (a)(6)~~218.204(a)(1)(A), (a)(1)(D), (a)(2)(A), (a)(2)(E), (a)(2)(F), (e)(1), (d), (e), (f), (i), or (p) ~~must note of this Subpart shall~~ apply coatings during any day on any ~~such~~ coating line, ~~during any day~~, whose daily-weighted average VOM content exceeds the emission limitation to which the coatings are subject.

- b) ~~Prior to May 1, 2012, no owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 218.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~

1) ~~For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(j) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or~~

2) ~~For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(j) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.~~

- e) ~~An~~No owner or operator of a can coating line subject to the limitations of Section 218.204(b) ~~must note of this Subpart shall~~ operate the subject coating line using a coating with a VOM content ~~exceeding in excess of~~ the limitations ~~specified in Section 218.204(b) of this Subpart~~ unless all ~~of~~ the following requirements are met:

Commented [JS41]: Excess strikes starting here, remove all.

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- 1) An alternative daily emission limitation ~~shall be determined~~ for the can coating operation, i.e., for all of the can coating lines at the source, must be determined according to subsection ~~(b)(2)(e)(2) of this Section~~. Actual daily emissions ~~must~~ never exceed the alternative daily emission limitation and ~~must~~ be calculated ~~using by use of~~ the following equation.

$$E_d = \sum_{i=1}^n V_i C_i$$

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied in the can coating operation, i.e., all can coating lines at the source;

V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM);

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) ~~must~~ be determined for the can coating operation, i.e., for all ~~of~~ the can coating lines at the source, on a daily basis as follows:

$$A_d = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

where:

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- A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of surface coatings applied in the can coating operation;
- C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);
- D_i = The density of VOM in each coating applied. ~~To calculate~~~~For the purposes of calculating~~ A_d , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);
- L_i = The VOM emission limitation for each surface coating applied as specified in Section 218.204(b) ~~of this Subpart~~ in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

~~(c)~~ ~~An~~ ~~No~~ owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) ~~must not~~~~of this Subpart shall~~ apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection ~~(c)(1)(d)(1)~~ or ~~(c)(2)(d)(2)~~ ~~of this Section~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(k) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must~~~~shall~~ not exceed the coating VOM content limit corresponding to the category of coating used: or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(k) ~~of this Subpart~~,

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during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~de)~~ ~~An~~No owner or operator of a wood furniture coating line subject to the limitations of Section ~~218.204(l)(2) must not~~218.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection ~~(d)(1)(e)(1) or subsection (d)(2)(e)(2) of this Section, in addition to the requirements specified in the note to Section 218.204(l)(1) of this Subpart,~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section ~~218.204(l)(2)~~218.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content ~~must~~shall not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section ~~218.204(l)(2)~~218.204(l)(1) or (l)(3) of this Subpart, during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~ef)~~ ~~An~~No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) ~~must not~~of this Subpart shall apply coatings to diesel-electric locomotives on the subject coating line unless the requirements of subsection ~~(e)(1)(f)(1) or (e)(2)(f)(2) of this Section~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(m) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must~~shall not exceed the coating VOM content limit

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corresponding to the category of coating used; or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m) ~~of this Subpart~~, during the same day, the owner or operator ~~must~~ shall have a ~~site-specific~~ site-specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~g) Prior to May 1, 2012, no owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:~~

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- ~~1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or~~

- ~~2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(n) or (o) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.~~

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~~fh) An~~ No owner or operator of a metal furniture coating line, subject to the limitations of Section 218.204(g) ~~must not~~ of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection ~~(f)(1)(h)(1) or (f)(2)(h)(2) of this Section~~ are met:

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(g) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content ~~must~~ shall not exceed the coating VOM content limit

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corresponding to the category of coating used; or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(g) ~~of this Subpart~~, during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~g)~~ gi) ~~An~~No owner or operator of a large appliance coating line, subject to the limitations of Section 218.204(h) ~~must not~~of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection ~~(g)(1)(i)(1) or (g)(1)(i)(2) of this Section~~ are met:

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content ~~must~~shall not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h) ~~of this Subpart~~, during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~h)~~ hj) On and after May 1, 2011, ~~an~~no owner or operator of a paper coating line subject to the limitations of Section 218.204(c) ~~must not~~of this Subpart shall apply coatings on the subject coating line unless the requirements in subsection ~~(h)(1)(j)(1) or (h)(2)(j)(2) of this Section~~ are met:

- 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(c) during the same day (e.g., all coatings used on the line are subject to 0.40 kg/kg solids (0.08 kg/kg coatings)), the daily-weighted

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average VOM content ~~must~~shall not exceed the coating VOM content limit corresponding to the category of coating used; or

- 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(c) during the same day, the owner or operator ~~must~~shall have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~(k)~~ On and after May 1, 2012, ~~any~~ owner or operator of a miscellaneous metal parts and products coating line, plastic parts or products coating line, pleasure craft surface coating line, or motor vehicle materials coating line subject to the limitations of Section 218.204(q) ~~must not of this Subpart shall~~ apply coatings on the subject coating line unless the requirements of subsection ~~(i)(1)(k)(1)~~ or ~~(i)(2)(k)(2) of this Section~~ are met:

- 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(q) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must~~shall not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(q) ~~of this Subpart~~, during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.206 Solids Basis Calculation

Limitations in terms of kg (lbs) of VOM emissions per ~~14~~1 (gal) of solids as applied at each coating applicator ~~must~~shall be determined by the following equation:

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$$S = \frac{C}{1-(C/D)}$$

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where:

S = The limitation on VOM emissions in terms of kg ~~VOM/lVOM/l~~ (lbs VOM/gal) of solids;

C = The limitation on VOM emissions in terms of ~~kg/lkg/l~~ (lbs/gal) of coating (excluding minus water and any compounds which are specifically excluded from the definition of VOM) ~~specified in Section 218.204 of this Part;~~

D = The density of VOM in the coating. ~~To calculate~~For the purposes of calculating S, the density is 0.882 kg ~~VOM/lVOM/l~~ VOM (7.36 lbs VOM/gal VOM)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.207 Alternative Emission Limitations

- a) Any owner or operator of a coating line subject to Section 218.204 ~~of this Subpart~~, except coating lines subject to Section 218.204(q)(6), may comply with this Section; rather than with Section 218.204 ~~of this Subpart~~, if the requirements in subsections (a)(1) through (a)(3) are met. A capture system and control device which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), or (j) may be used as an alternative to compliance with Section 218.204 only if the alternative is approved by the Agency and approved by USEPA as a SIP revision.
- 1) ~~A~~ capture system and control device are operated at all times the coating line is in operation; ~~and the~~
- 2) ~~The~~ owner or operator demonstrates compliance with subsections (c), (d), (e), (f), (g), (h), (i), or (j), ~~(k), (l), (m), or (n) of this Section~~ (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures ~~specified in Section 218.105 of this Part and the recordkeeping and reporting requirements specified in Section 218.211(e) of this Subpart;~~ and
- 3) ~~The~~ control device is equipped with the applicable monitoring

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equipment ~~specified in Section 218.105(d), of this Part~~ and the monitoring equipment is installed, calibrated, operated, and maintained according to vendor specifications at all times the control device is in use. ~~A capture system and control device, which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), or (j), (k), (l), (m), or (n) of this Section may be used as an alternative to compliance with Section 218.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.~~

b) Alternative Add-On Control Methodologies

- 1) The coating line is equipped with a capture system and control device that provides ~~81%81 percent~~ reduction in the overall emissions of VOM from the coating line, and the control device has a ~~90%90 percent~~ efficiency; or
- 2) The system used to control VOM from the coating line is demonstrated to have an overall efficiency sufficient to limit VOM emissions to no more than what is allowed under Section 218.204 ~~of this Subpart~~. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption scrubber system can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. Baseline transfer efficiencies and transfer efficiency test methods must be approved by the Agency and ~~the~~ USEPA. ~~The~~Such overall efficiency is to be determined as follows:
 - A) Obtain the emission limitation from the appropriate subsection in Section 218.204 ~~of this Subpart~~;
 - B) Unless complying with an emission limitation in Section 218.204 that is already expressed in terms of weight of VOM per volume of solids, calculate "S" according to the equation in Section 218.206 ~~of this Subpart~~. For coating lines subject to an emission limitation in Section 218.204 that is already expressed in terms of weight of VOM per volume of solids, "S" is equal to ~~the~~such emission limitation; and
 - C) Calculate the overall efficiency required according to Section 218.105(e) ~~of this Part~~. ~~To calculate~~For the purposes of calculating this value, according to the equation in Section 218.105(e)(2) ~~of~~

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~~this Part~~, VOM₁ is equal to the value of "S" as determined in subsection (b)(2)(B) ~~of this Section~~. If the coating line is subject to an emission limitation in Section 218.204 ~~of this Subpart~~ that is already expressed in terms of weight of VOM per volume of solids, VOM₁ is equal to that emission limitation.

- c) ~~An~~~~No~~ owner or operator of a coating line subject to only one of the emission limitations from among Section ~~218.204(a)(1), (a)(5), (a)(6)~~~~218.204(a)(1)(A), (a)(1)(D), (a)(2)(A), (a)(2)(E), (a)(2)(F), (e)(1), (d), (e), (f), or (i) of this Subpart~~ and equipped with a capture system and control device must not~~shall~~ operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met. ~~An~~~~No~~ owner or operator of a coating line subject to Section ~~218.204(a)(2), (a)(3), or (a)(4)~~~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ and equipped with a capture system and control device must not~~shall~~ operate the coating line unless the owner or operator demonstrates compliance with ~~the such~~ limitation in compliance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(A) or (b)(1)(B), as applicable.
- d) ~~No owner or operator of a miscellaneous metal parts and products coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(j) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~
- e) ~~An~~~~No~~ owner or operator of a heavy off-highway vehicle products coating line that applies at least one ~~coating or more coatings~~ during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(k) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.42 ~~kg/l~~~~kg/l~~ (3.5 lbs/gal)), and that is equipped with a capture system and control device must not~~shall~~ operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met.
- ef) ~~An~~~~No~~ owner or operator of an existing diesel-electric locomotive coating line in Cook County that applies at least one ~~coating or more coatings~~ during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(m) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.42 ~~kg/l~~~~kg/l~~ (3.5 lbs/gal)), and that is equipped with a capture system and control device must not~~shall~~ operate the subject coating line unless the

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requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met.

fg) ~~An~~ ~~No~~ owner or operator of a wood furniture coating line that applies at least one coating or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(l) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), and that is equipped with a capture system and control device must not~~shall~~ operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met. ~~If compliance is achieved by meeting the requirements in subsection (b)(2) of this Section, then the provisions in the note to Section 218.204(l) of this Subpart must also be met.~~

gh) ~~An~~ ~~No~~ owner or operator of a can coating line ~~that is~~ equipped with a capture system and control device must not~~shall~~ operate the subject coating line unless the requirements in subsection ~~(g)(1)(h)(1) or (g)(2)(h)(2) of this Section~~ are met.

- 1) An alternative daily emission limitation ~~shall be determined~~ for the can coating operation, i.e., for all ~~of~~ the can coating lines at the source, must be determined according to Section ~~218.205(b)(2) 218.205(e)(2) of this Subpart~~. Actual daily emissions must not~~shall never~~ exceed the alternative daily emission limitation and must~~shall~~ be calculated using~~by use of~~ the following equation:

$$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$$

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);

i = Subscript denoting the specific coating applied;

n = Total number of surface coatings as applied in the can coating operation;

V_i = Volume of each coating as applied for the day in units of l/day (gal/day) of coating ~~(excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM);

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- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and
- F_i = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

- 2) The coating line is equipped with a capture system and control device that provide ~~75%~~~~75 percent~~ reduction in the overall emissions of VOM from the coating line, and the control device has a ~~90%~~~~90 percent~~ efficiency.

- i) ~~No owner or operator of a plastic parts coating line, that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~
- j) ~~Prior to May 1, 2011, no owner or operator of a metal furniture coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(g) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~
- k) ~~Prior to May 1, 2011, no owner or operator of a large appliance coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~
- h) ~~An~~On and after May 1, 2011, no owner or operator of a paper coating line, metal furniture coating line, or large appliance coating line that is equipped with a

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capture system and control device ~~must not~~shall operate the subject coating line unless either:

- 1) The capture system and control device provide at least ~~90%~~90 percent reduction in the overall emissions of VOM from the coating line; or
- 2) The owner or operator complies with the applicable limitation ~~set forth in~~ Section 218.204 ~~of this Subpart~~ by ~~using~~utilizing a combination of low-VOM coatings and a capture system and control device.

~~im~~) ~~An~~No owner or operator of a flat wood paneling coating line that is equipped with a capture system and control device ~~must not~~shall operate the subject coating line unless either:

- 1) The capture system and control device provide at least ~~90%~~90 percent reduction in the overall emissions of VOM from the coating line; or
- 2) The owner or operator of the flat wood paneling coating line complies with all requirements ~~set forth in~~ subsection (b)(2) ~~of this Section~~.

~~ja~~) ~~An~~On and after May 1, 2012, no owner or operator of a miscellaneous metal parts and products coating line, plastic parts and products coating line, or pleasure craft surface coating line that is equipped with a capture system and control device ~~must not~~shall operate the subject coating line unless:

- 1) The capture system and control device provide at least ~~90%~~90 percent reduction in the overall emissions of VOM from the coating line; or
- 2) The owner or operator of the coating line complies with all requirements ~~set forth in~~ subsection (b)(2) ~~of this Section~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.208 Exemptions from Emission Limitations

a) Exemptions for all coating categories except wood furniture coating-

- 1) The limitations of this Subpart ~~do~~shall not apply to coating lines within a source; that otherwise would be subject to the same subsection of Section 218.204 (because they belong to the same coating category, e.g., can coating), ~~if provided that~~ combined actual emissions of VOM from all lines

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at the source subject to that subsection never exceed 6.8 kg/day (15 lbs/day) before ~~applying the application of~~ capture systems and control devices. (For example, can coating lines within a source would not be subject to the limitations of Section 218.204(b) ~~of this Subpart~~ if the combined actual emissions of VOM from the can coating lines never exceed 6.8 kg/day (15 lbs/day) before ~~applying the application of~~ capture systems and control devices.) ~~Prior to May 1, 2012, volatile organic material emissions from heavy off-highway vehicle products coating lines must be combined with VOM emissions from miscellaneous metal parts and products coating lines to determine applicability. On and after May 1, 2012,~~

- 2) VOM emissions from heavy off-highway vehicle products coating lines ~~must~~shall be combined with VOM emissions from miscellaneous metal parts and products coating lines and plastic parts and products coating lines to determine applicability.
- 3) Any owner or operator of a coating source ~~must~~shall comply with the applicable coating analysis test methods and procedures ~~specified in~~ Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified in~~ Section 218.211(a) ~~of this Subpart~~ if total VOM emissions from the subject coating lines are always ~~less than or equal to~~ 6.8 kg/day (15 lbs/day) ~~or less~~ before ~~applying the application of~~ capture systems and control devices and, ~~therefore~~, are not subject to the limitations of Section 218.204 ~~of this Subpart~~.
- 4) Once a category of coating lines at a source is subject to the limitations in Section 218.204 ~~of this Subpart~~ the coating lines are always subject to the limitations in Section 218.204 ~~of this Subpart~~.

b) Applicability for wood furniture coating

- 1) The limitations of this Subpart ~~shall~~ apply to a source's wood furniture coating lines if the source contains process emission units; not regulated by Subparts B, E, F (excluding Section 218.204(l) ~~of this Subpart~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, or BB ~~of this Part~~, which as a group both:

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- A) Have ~~a~~ maximum theoretical emissions of at least 91 Mg (100 tons) ~~or more~~ per calendar year of VOM if no air pollution control equipment were used; and
 - B) Are not limited to less than 91 Mg (100 tons) of VOM per calendar year if no air pollution control equipment were used, through production or capacity limitations ~~contained~~ in a federally enforceable permit or SIP revision.
- 2) The limitations of this Subpart ~~shall~~ apply to a source's wood furniture coating lines; on and after March 15, 1996, if the source contains process emission units; which, as a group, have a potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per calendar year and have not limited emissions to less than 22.7 Mg (25 tons) of VOM per calendar year through production or capacity limitations ~~contained~~ in a federally enforceable operating permit or SIP revision, and that:
- A) Are not regulated by Subparts B, E, F (excluding Section 218.204(l) ~~of this Subpart~~), H, Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z or BB ~~of this Part~~; and
 - B) Are not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.
- 3) If a source ceases to fulfill the criteria of subsection (b)(1) or (b)(2) ~~of this Section~~, the limitations of Section 218.204(l) ~~of this Subpart shall~~ continue to apply to any wood furniture coating line which was ever subject to the limitations of Section 218.204(l) ~~of this Subpart~~.
- 4) For ~~this the purposes of~~ subsection (b) ~~of this Section~~, an emission unit ~~is shall be~~ considered ~~to be~~ regulated by a Subpart if it is subject to the limitations of that Subpart. An emission unit is not considered regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart, or the applicability criteria of the Subpart are not met.

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- 5) Any owner or operator of a wood furniture coating line to which the limitations of this Subpart are not applicable due to the criteria in this subsection (b) ~~must of this Section shall~~, upon request by the Agency or ~~the~~ USEPA, submit records to the Agency and ~~the~~ USEPA within 30 calendar days ~~after from~~ the date of the request that document that the coating line is exempt from the limitations of this Subpart.
- c) On and after March 15, 1996, the limitations of this Subpart ~~do shall~~ not apply to touch-up and repair coatings used by a coating source described by Section 218.204(b), (d), (f), (g), (i), and (q)(5) ~~if of this Subpart; provided /yr that~~ the source-wide volume of ~~these such~~ coatings used ~~is does not exceed~~ 0.95 ~~l4~~ (1 quart) ~~or less~~ per eight-hour period or ~~exceed~~ 209 ~~l4/yr~~ (55 gal/yr) ~~or less~~ for any rolling ~~12-month+2 month~~ period. Recordkeeping and reporting for touch-up and repair coatings ~~must shall~~ be consistent with subsection ~~(d)(e) of this Section~~.
- ~~d) Prior to May 1, 2012, the limitations of this Subpart shall not apply to touch up and repair coatings used by a coating source described by Section 218.204(j), (n), and (o) of this Subpart, provided that the source wide volume of the coatings used does not exceed 0.95 l (1 quart) per eight hour period or exceed 209 l/yr (55 gal/yr) for any rolling 12 month period. Recordkeeping and reporting for touch up and repair coatings shall be consistent with subsection (e) of this Section.~~
- ~~e) On and after March 15, 1996, the owner or operator of a coating line or a group of coating lines using touch-up and repair coatings that are exempted from the limitations of Section 218.204(b), (d), (f), (g), (i), (j), (n), (o), and (q)(5) by subsection of this Subpart because of the provisions of subsection 218.208 (c) or (d) must of this Section shall:~~
- 1) Collect and record the name, identification number, and volume used of each touch-up and repair coating, as applied on each coating line, per eight-hour period and per month;
 - 2) Perform calculations on a daily basis, and maintain at the source records of ~~the such~~ calculations, of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;
 - 3) Perform calculations on a monthly basis, and maintain at the source records of ~~the such~~ calculations, of the combined volume of touch-up and repair coatings used source-wide for the month and the rolling ~~12-month+2 month~~ period;

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- 4) Prepare and maintain at the source an annual summary of the information required to be compiled ~~underpursuant to~~ subsections ~~(d)(1)(e)(1) and (d)(2) by(e)(2) of this Section on or before~~ January 31 of the following year;
- 5) Maintain at the source for ~~at least a minimum period of~~ three years all records required to be kept under this subsection ~~(d)(e)~~, and make ~~thesuch~~ records available to the Agency upon request; ~~and~~
- 6) Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.95 l (1 quart) per eight-hour period or ~~exceeds~~ 209 l/yr (55 gal/yr) for any rolling ~~12-month+2-month~~ period within 30 days after ~~theany such~~ exceedance. ~~TheSuch~~ notification ~~mustshall~~ include a copy of any records of ~~thesuch~~ exceedance; ~~and~~
- 7) ~~—~~ "Touch-up and repair coatings" means, for ~~Section purposes of 35 Ill. Adm. Code~~ 218.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.209 Exemption From General Rule on Use of Organic Material

~~An~~ owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Part~~ is ~~not~~ required to meet the limitations of ~~Subpart G (Section 218.301 or 218.302) of this Part~~, after the date by which the coating line is required to meet Section 218.204 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.210 Compliance Schedule

Every owner or operator of a coating line (of a type included within Section 218.204 ~~of this Subpart~~) ~~mustshall~~ comply with the requirements of Section 218.204, 218.205, 218.207, or 218.208 and Section 218.211 or Sections 218.212 and 218.213 ~~of this Subpart~~ in compliance with the appropriate compliance schedule ~~as specified~~ in subsection (a), (b), (c), (d), (e), (f), (g), or (h) ~~of this Section~~.

- a) ~~An~~ owner or operator of a coating line that is exempt from the limitations of Section 218.204 ~~of this Subpart~~ because of the criteria in Section 218.208(a) or

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- (b) ~~must not of this Subpart shall~~ operate ~~thesaid~~ coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.211(b) ~~of this Subpart~~.
- b) ~~An~~No owner or operator of a coating line complying ~~underby means of~~ Section 218.204 ~~must not of this Subpart shall~~ operate ~~thesaid~~ coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Sections 218.204 and 218.211(c) ~~of this Subpart~~.
- c) ~~An~~No owner or operator of a coating line complying ~~underby means of~~ Section 218.205 ~~must not of this Subpart shall~~ operate ~~thesaid~~ coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Sections 218.205 and 218.211(d) ~~of this Subpart~~.
- d) ~~An~~No owner or operator of a coating line complying ~~underby means of~~ Section 218.207 ~~must not of this Subpart shall~~ operate ~~thesaid~~ coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Sections 218.207 and 218.211(e) ~~of this Subpart~~.
- e) ~~An~~No owner or operator of a coating line subject to ~~at least one or more~~ of the emission limitations ~~contained~~ in Section 218.204 ~~of this Subpart~~ on or after March 15, 1996, ~~and~~ choosing to comply ~~underby means of~~ Section 218.204, 218.205, or 218.207 ~~must not of this Subpart, shall~~ operate ~~thesaid~~ coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with, ~~respectively~~, the applicable requirements in Section 218.204, or the alternative control options in Section 218.205 or 218.207, and the requirements of Section 218.211.
- f) ~~An~~No owner or operator of a coating line subject to ~~at least one or more~~ of the emission limitations ~~contained~~ in Section 218.204 ~~of this Subpart~~ on or after March 15, 1996, ~~and~~ choosing to comply ~~underby means of~~ Section 218.212 ~~must not of this Subpart, shall~~ operate ~~thesaid~~ coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the requirements of Sections 218.212 and 218.213 ~~of this Subpart~~.
- g) ~~An~~No owner or operator of a coating line subject to the emission limitations in Section ~~218.204(c)(1), (g)(1), or (h)(1) must not 218.204(e)(2), (g)(2), or (h)(2) of~~

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~~this Subpart shall~~ operate that coating line on or after a date consistent with Section 218.106(e) ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.204(c)(1), (g)(1), or (h)(1) ~~218.204(e)(2), (g)(2), or (h)(2)~~, as applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.218 ~~of this Subpart~~.

Commented [SKA57]: "f" is on file.

- h) ~~An~~ owner or operator of a coating line subject to the emission limitations ~~contained in Section 218.204(p) must not of this Subpart shall~~ operate that coating line on or after a date consistent with Section 218.106(e) ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.204(p) or the alternative control options in Section 218.205 or 218.207, and ~~all applicable~~ the requirements ~~in of~~ Sections 218.211 and 218.217 ~~of this Subpart~~, ~~as applicable~~.

Commented [BW58]: The entire paragraph of i) is missing (Source: Amended at 34 Ill. Reg. 14174, effective September 14, 2010)

Commented [SKA59R58]: agree

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.211 Recordkeeping and Reporting

- a) The VOM content of each coating and the efficiency of each capture system and control device ~~must shall~~ be determined by the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~ to establish the records required under this Section.
- b) Any owner or operator of a coating line that is exempted from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) or (b) ~~must of this Subpart shall~~ comply with the following:
 - 1) For sources exempt under Section 218.208(a) ~~of this Subpart~~, by a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) ~~must of this Section shall~~ certify to the Agency that the coating line or group of coating lines is exempt under ~~the provisions of~~ Section 218.208(a) ~~of this Subpart~~. ~~The~~ Such certification ~~must shall~~ include:
 - A) A declaration that the coating line or group of coating lines is exempt from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) ~~of this Subpart~~; and
 - B) Calculations that demonstrate that the combined VOM emissions

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from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before ~~applying the application of~~ capture systems and control devices. The following equation ~~must~~shall be used to calculate total VOM emissions:

$$T_e = \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

where:

- T_e = Total VOM emissions from coating lines each day before ~~applying the application of~~ capture systems and control devices in units of kg/day (lbs/day);
- m = Number of coating lines at the source that otherwise would be subject to the same subsection of Section 218.104 ~~of this Part~~ (because they belong to the same category, e.g., can coating);
- j = Subscript denoting an individual coating line;
- n = Number of different coatings as applied each day on each coating line;
- i = Subscript denoting an individual coating;
- A_i = Weight of VOM per volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); and
- B_i = Volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day ~~must~~shall be described in the certification to the Agency.

- 2) For sources exempt under Section 218.208(b) ~~of this Subpart~~, by March

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15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) ~~must of this Section- shall~~ certify to the Agency that the source is exempt under ~~the provisions- of~~ Section 218.208(b) ~~of this Subpart~~. ~~The Such~~ certification ~~must shall~~ include:

- A) A declaration that the source is exempt from the limitations of Section 218.204(l) ~~of this Subpart~~ because of Section 218.208(b) ~~of this Subpart~~; and
 - B) Calculations that demonstrate that the source meets the criteria for exemption because of Section 218.208(b) ~~of this Subpart~~.
- 3) For sources exempt under Section 218.208(a) ~~of this Subpart~~, on and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or group of coating lines referenced in this subsection ~~must shall~~ collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line; and
 - B) The weight of VOM per volume and the volume of each coating ~~(excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.
- 4) For sources exempt under Section 218.208(b) ~~of this Subpart~~, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) ~~must shall~~ collect and record all of the following information for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line; and
 - B) The weight of VOM per volume and the volume of each coating ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating

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line on a monthly basis.

- 5) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) ~~must of this Subpart shall~~ notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before ~~applying the application of~~ capture systems and control devices by sending a copy of ~~the such~~ record to the Agency within 30 days after the exceedance occurs.
- 6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(l) ~~of this Subpart~~ because of Section 218.208(b) ~~must of this Subpart shall~~ notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing ~~the such an~~ exceedance within 30 days after the change occurs.
- c) Any owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Subpart~~ other than Section 218.204(a)(2), (a)(3), or (a)(4) ~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ and complying ~~under by means of~~ Section 218.204 ~~must of this Subpart shall~~ comply with the following:
 - 1) By a date consistent with Section 218.106 ~~of this Part~~, ~~or~~ upon initial start-up of a new coating line, or upon changing the method of compliance ~~for from~~ an existing subject coating line from Section 218.205, ~~Section~~ 218.207, ~~Section~~ 218.215, or ~~Section~~ 218.216 ~~of this Subpart~~ to Section 218.204, ~~of this Subpart~~; the owner or operator of a subject coating line ~~must shall~~ certify to the Agency that the coating line will be in compliance with Section 218.204 ~~of this Subpart~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date. The certification ~~must shall~~ include:
 - A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;

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- C) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(l)(1)(A)218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line;
- D) For coating lines subject to the limitations of Section ~~218.204(c)(1)218.204(c)(2) of this Subpart~~, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line;
- E) For coating lines subject to the limitations of Section ~~218.204(g)(1)218.204(g)(2) or (h)(1)(h)(2) of this Subpart~~, the application methods used to apply coatings on the subject coating line and the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line;
- F) For coating lines subject to the limitations of Section 218.204(p) ~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;
- G) For coating lines subject to the limitations of Section ~~218.204(a)(1)218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line, and the solids turnover ratio of the EDP operation, with supporting calculations;
- H) For coating lines subject to the limitations of Section ~~218.204(a)(5)218.204(a)(2)(E)~~, the weight of VOM per volume and volume of each coating used in the final repair coat operation, and the weight of VOM per volume of the final repair coat as applied, calculated on an occurrence weighted average basis;
- I) For coating lines subject to the limitations of Section 218.204(q) ~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.

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- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line ~~must~~shall collect and record all of the following information each day, unless otherwise specified, for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume of each coating (~~excluding~~minus water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;
 - C) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(l)(1)(A) 218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line, and certified product data sheets for each coating;
 - D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section ~~218.204(l)(3)(A) 218.204(l)(4)(A)~~ of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth, and certified product data sheets for each coating;
 - E) For coating lines subject to the limitations of Section ~~218.204(c)(1) 218.204(e)(2)~~ of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating;
 - F) For coating lines subject to the limitations of Section ~~218.204(g)(1) 218.204(g)(2)~~ or ~~218.204(h)(1) 218.204(h)(2)~~ of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating;

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- G) For coating lines subject to the limitations of Section 218.204(p) ~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;
 - H) For coating lines subject to the limitations of Section ~~218.204(a)(1)~~ 218.204(a)(2)(A) ~~of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line, certified product data sheets for each coating, and the solid turnover ratio for the EDP operation, calculated on a calendar monthly basis, with supporting calculations;
 - I) For coating lines subject to the limitations of Section ~~218.204(a)(5)~~ 218.204(a)(2)(E), the weight of VOM per volume and volume of each coating used in the final repair coat operation, the weight of VOM per volume of the final repair coat as applied, calculated on an occurrence weighted average basis, and certified product data sheets for each coating; and
 - J) For coating lines subject to the limitations of Section 218.204(q) ~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line, and certified product data sheets for each coating.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating line ~~must~~ shall notify the Agency in the following instances:
- A) Any record showing violation of Section 218.204 ~~must of this Subpart shall~~ be reported by sending a copy of ~~the~~ such record to the Agency within 30 days ~~after following the occurrence of~~ the violation.
 - B) At least 30 calendar days before changing the method of compliance from Section 218.204 ~~of this Subpart~~ to Section 218.205 or ~~Section 218.207 of this Subpart~~, the owner or operator shall comply with all requirements of subsection (d)(1) or (e)(1) ~~of this Section~~, as applicable. Upon changing the method of compliance from Section 218.204 ~~of this Subpart~~ to Section

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218.205 ~~of this Subpart~~ or ~~Section 218.207 of this Subpart~~, the owner or operator ~~must~~shall comply with all requirements of subsection (d) or (e) ~~of this Section~~, as applicable.

- d) Any owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.205 ~~must~~shall ~~of this Subpart shall~~ comply with the following:
- 1) By a date consistent with Section 218.106 ~~of this Part~~, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing subject coating line from Section 218.204 or ~~Section 218.207 of this Subpart~~ to Section 218.205 ~~of this Subpart~~, the owner or operator of the subject coating line ~~must~~shall certify to the Agency that the coating line will be in compliance with Section 218.205 ~~of this Subpart~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date. The certification ~~must~~shall include:
 - A) The name and identification number of each coating line which will comply by means of Section 218.205 ~~of this Subpart~~.
 - B) The name and identification number of each coating as applied on each coating line.
 - C) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - D) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(1)(1)(a) 218.204(1)(2)(A) or (B) of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
 - E) For coating lines subject to the limitations of Section ~~218.204(a)(1) 218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line.
 - F) For coating lines subject to the limitations of Section ~~218.204(c)(1) 218.204(c)(2) of this Subpart~~, the weight of VOM

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per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.

- G) For coating lines subject to the limitations of Section ~~218.204(g)(1)~~218.204(g)(2) or ~~(h)(1)(h)(2) of this Subpart~~, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
 - H) For coating lines subject to the limitations of Section 218.204(p) ~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line.
 - I) For coating lines subject to the limitations of Section 218.204(q) ~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
 - J) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
 - K) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) ~~of this Section~~.
 - L) An example of the format in which the records required in subsection (d)(2) ~~of this Section~~ will be kept.
- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line ~~must~~shall collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line.

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- B) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(l)(1)(A)218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
- D) For coating lines subject to the limitations of Section ~~218.204(a)(1)218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line.
- E) For coating lines subject to the limitations of Section ~~218.204(c)(1)218.204(c)(2) of this Subpart~~, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
- F) For coating lines subject to the limitations of Section ~~218.204(g)(1)218.204(g)(2) or (h)(1)(h)(2) of this Subpart~~, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
- G) For coating lines subject to the limitations of Section ~~218.204(p) of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line.
- H) For coating lines subject to the limitations of Section ~~218.204(q) of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
- I) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section ~~218.104 of this Part~~.

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- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating line must~~shall~~ notify the Agency in the following instances:
 - A) Any record showing violation of Section 218.205 ~~of this Subpart~~ must~~shall~~ be reported by sending a copy of ~~the~~such record to the Agency within 30 days ~~after~~following the occurrence of the violation.
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.205 ~~of this Subpart~~ to Section 218.204 or ~~Section 218.207 of this Subpart~~, the owner or operator must~~shall~~ comply with all requirements of subsection (c)(1) or (e)(1) ~~of this Section~~, as applicable. Upon changing the method of compliance with this Subpart from Section 218.205 to Section 218.204 or ~~Section 218.207 of this Subpart~~, the owner or operator must~~shall~~ comply with all requirements of subsection (c) or (e) ~~of this Section~~, as applicable.
- e) Any owner or operator of a coating line subject to the limitations of Section 218.207 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.207(c), (d), (e), (f), (g), (h), (i), or (j) ~~must~~(l), (m), or (n) of this Subpart shall comply with the following:
 - 1) By a date consistent with Section 218.106 ~~of this Part~~, ~~or~~ upon initial start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 218.204 or ~~Section 218.205 of this Subpart~~ to Section 218.207 ~~of this Subpart~~, the owner or operator of the subject coating line must~~shall~~ perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject coating line will be in compliance with Section 218.207 ~~of this Subpart~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date.
 - 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line must~~shall~~ collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a~~ period of three years:

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- A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying ~~underpursuant to~~ Section 218.207(b)(2) ~~of this Subpart~~.
 - B) Control device monitoring data.
 - C) A log of operating time for the capture system, control device, monitoring equipment, and the associated coating line.
 - D) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating line ~~must~~shall notify the Agency in the following instances:
- A) Any record showing violation of Section 218.207 ~~must of this Subpart shall~~ be reported by sending a copy of ~~the such~~ record to the Agency within 30 days ~~after following the occurrence of~~ the violation.
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.207 ~~of this Subpart~~ to Section 218.204 or ~~Section 218.205 of this Subpart~~, the owner or operator ~~must~~shall comply with all requirements of subsection (c)(1) or (d)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with this Subpart from Section 218.207 ~~of this Subpart~~ to Section 218.204 or ~~Section 218.205 of this Subpart~~, the owner or operator ~~must~~shall comply with all requirements of subsection (c) or (d) ~~of this Section~~, respectively.
- f) Any owner or operator of a primer surfacer operation or topcoat operation, or combined primer surfacer and topcoat operation, subject to the limitations of Section ~~218.204(a)(2), (a)(3), or (a)(4) must~~ 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart shall comply with the following:
- 1) By a date consistent with Section 218.106 ~~of this Part~~, or upon initial start-

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up of a new coating operation, the owner or operator of a subject coating operation must~~shall~~ certify to the Agency that the operation will be in compliance with Section 218.204 ~~of this Subpart~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date. The certification must~~shall~~ include:

- A) The name and identification number of each coating operation that will comply ~~under by means of~~ Section 218.204(a)(2), (a)(3), or (a)(4)~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ and the name and identification number of each coating line in each coating operation.
 - B) The name and identification number of each coating as applied on each coating line in the coating operation.
 - C) The weight of VOM per volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - D) The transfer efficiency and control efficiency measured for each coating line.
 - E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.
 - F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
 - G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2) ~~of this Section~~.
 - H) An example format for presenting the records required in subsection (f)(2) ~~of this Section~~.
- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating operation must~~shall~~ collect and record all of the following information

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each day for each operation and maintain the information at the source for ~~a period of~~ three years:

- A) All information necessary to demonstrate compliance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and to calculate the daily-weighted average VOM emissions from the coating operations in kg/l (lbs/gal) of coating solids deposited in ~~compliance~~accordance with the proposal submitted, and approved ~~underpursuant to~~ Section ~~218.204(a)(2), (a)(3), or (a)(4), 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ including:
 - i) The name and identification number of each coating as applied on each coating operation.
 - ii) The weight of VOM per volume of each coating (~~excluding~~minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating operation.
 - B) If a control device or devices are used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment, and the associated coating operation; and a maintenance log for the capture system, control device, and monitoring equipment, detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of a subject coating operation ~~must~~shall determine and record the daily VOM emissions in kg/l (lbs/gal) of coating solids deposited in ~~compliance~~accordance with the proposal submitted and approved ~~underpursuant to~~ Section ~~218.204(a)(2), (a)(3), or (a)(4) 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ within 10 days ~~after~~from the end of the month and maintain this information at the source for ~~a period of~~ three years.
- 4) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating operation ~~must~~shall notify the Agency in the following instances:

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- A) Any record showing a violation of Section ~~218.204(a)(2), (a)(3), or (a)(4) must~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart shall be reported by sending a copy of ~~the such~~ record to the Agency within 15 days ~~after from~~ the end of the month in which the violation occurred.
- B) The owner or operator ~~must~~shall notify the Agency of any change to the operation at least 30 days before the change is effected. The Agency ~~must~~shall determine whether or not compliance testing is required. If the Agency determines that compliance testing is required, then the owner or operator ~~must~~shall submit a testing proposal to the Agency within 30 days and test within 30 days after ~~the Agency and USEPA approve~~the approval of the proposal by the Agency and USEPA.
- g) On and after a date consistent with Section 218.106(e) ~~of this Part,~~ or on and after the initial startup date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.218 ~~must of this Subpart shall~~ comply with the following:
- 1) By May 1, 2011, or upon initial startup, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.218 ~~of this Subpart;~~
 - 2) Notify the Agency of any violation of Section 218.218 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the occurrence of~~ the violation; and
 - 3) Maintain at the source all records required by this subsection (g) for ~~at least a minimum of~~ three years from the date the document was created, and make those records available to the Agency upon request.
- h) On and after a date consistent with Section 218.106 ~~of this Part,~~ or on and after the initial start-up date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.219 ~~must of this Subpart shall~~ comply with the following:

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- 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes:
 - A) A description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.219 ~~of this Subpart~~;
 - B) For sources subject to Section 218.219(a)(6), the work practices plan specified in that Section;
 - C) For sources subject to Section 218.219(b)(6), the application methods used to apply coatings on the subject coating line;
 - 2) Notify the Agency of any violation of Section 218.219 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the occurrence of~~ the violation; and
 - 3) Maintain at the source all records required by this subsection (h) for at least a minimum of three years from the date the document was created, and make those records available to the Agency upon request.
- i) On and after a date consistent with Section 218.106(f) ~~of this Part~~, or on and after the initial start-up date, whichever is later, the owner or operator of a flat wood paneling coating line subject to the requirements in Section 218.217 ~~must of this Subpart shall~~ comply with the following:
 - 1) By August 1, 2010, or upon initial start-up, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.217(c) and (d) ~~of this Subpart~~; and
 - 2) Notify the Agency of any violation of Section 218.217 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting ~~the such~~ violation to the Agency within 30 days ~~after following the occurrence of~~ the violation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines

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- a) On and after March 15, 1996, any owner or operator of a coating line subject to the limitations ~~set forth in Section 218.204 of this Subpart~~, except coating lines subject to the limitations in Section ~~218.204(a), (c)(1), (g)(1), (h)(1), 218.204(a)(2), (e)(2), (g)(2), (h)(2), (p), or (q) of this Subpart~~, and with coating lines in operation ~~before~~ prior to January 1, 1991 (pre-existing coating lines), may, for pre-existing coating lines only, elect to comply with the requirements of this Section; rather than ~~complying with~~ the applicable emission limitations ~~set forth in Section 218.204~~, if an operational change of the type described ~~in this subsection below~~ has been made after January 1, 1991, to ~~at least one or more~~ pre-existing coating ~~line~~ lines at the source. An operational change occurs when a pre-existing coating line is replaced with a line using lower VOM coating for the same purpose as the replaced line (replacement line). A source electing to rely on this Section to demonstrate compliance with ~~the requirements of this Subpart~~ ~~must~~ ~~shall~~ operate ~~under~~ pursuant to federally enforceable permit conditions approved by the Agency and USEPA.
- b) An owner or operator of pre-existing coating lines subject to a VOM content limitation in Section 218.204 ~~of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart must establish, ~~using by use of~~ the equations in subsection (d) ~~of this Section~~, that the calculated actual daily VOM emissions from all participating coating lines, as defined in this subsection, are less than the calculated daily allowable VOM emissions from the same group of coating lines. For any pre-existing coating line to be aggregated for ~~the purposes of~~ Section 218.212, 218.213, or 218.214 ~~of this Subpart~~ ("participating coating lines"), the source must establish that:
- 1) All coatings applied on the participating coating line ~~must~~ ~~shall~~, at all times, have a VOM content less than or equal to the applicable VOM content limitation for ~~the~~ ~~such~~ coating listed in Appendix H ~~of this Part~~; and
 - 2) On the date the source elects to rely on this Section to demonstrate compliance with this Subpart, all coatings applied on the participating coating line are not already in compliance with the VOM content limitation for ~~the~~ ~~such~~ coating effective on or after March 15, 1996; or the participating coating line is a replacement line, as defined in subsection (a) ~~of this Section~~ with an operational change occurring on or after January 1, 1991.

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- c) ~~Despite~~Notwithstanding subsection (a) ~~of this Section~~, any owner or operator of a coating line subject to the limitations ~~set forth in Section 218.204, of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart, may until December 31, 1999, also include as a participating coating line, ~~until December 31, 1999, only~~, any replacement line that satisfies all of the following conditions:
- 1) The replacement line is operated as a powder coating line;
 - 2) The replacement line was added after July 1, 1988; and
 - 3) The owner or operator also includes as a participating coating line at least one or more coating ~~lines~~ line that ~~satisfies~~ satisfy the criteria of a replacement line, as described in subsection (a) ~~of this Section~~.
- d) To demonstrate compliance with this Section, a source ~~must~~ shall establish the following:
- 1) An alternative daily emission limitation ~~must~~ shall be determined for all participating coating lines at the source ~~under~~ according to subsection (d)(2) ~~of this Section~~. All participating coating lines ~~must~~ shall be factored in each day to demonstrate compliance. ~~If~~ Provided compliance is established ~~under~~ pursuant to the requirements in this subsection, nothing in this Section requires daily operation of each participating line. Actual daily emissions from all participating coating lines (E_d) ~~must~~ shall never exceed the alternative daily emission limitation (A_d) and must be calculated ~~using by use of~~ the following equation:

$$E_d = \sum_{i=1}^n V_i C_i$$

where:

- E_d = Actual daily VOM emissions from participating coating lines
in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;

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- n = Total number of coatings applied by all participating coating lines at the source;
- V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) ~~must~~~~shall~~ be determined for all participating coating lines at the source on a daily basis as follows:

$$A_d = A_i + A_p$$

where A_i and A_p are defined in subsections (d)(2)(A) and (d)(2)(B) ~~of this Section.~~

- A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A₁) ~~must~~~~shall~~ be determined for all ~~such~~ participating non-powder coating lines on a daily basis as follows:

$$A_i = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

where:

- A_i = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied in the participating coating lines;

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C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);

D_i = The density of VOM in each coating applied. ~~To calculate~~~~For the purposes of calculating~~ A_i , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);

V_i = Volume of each coating applied for the day in units of l (gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and

L_i = The VOM emission limitation for each coating applied, as specified in Section 218.204 ~~of this Subpart~~, in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

- B) The portion of the alternative daily emission limitation for coating operations at a source using powdered coating (A_p) ~~must~~~~shall~~ be determined for all ~~such~~ participating powder coating lines at the source on a daily basis as follows:

$$A_p = \sum_{h=1}^m \sum_{j=1}^n \frac{V_j L_j D_j K_h}{(D_j - L_j)}$$

where:

A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);

h = Subscript denoting a specific powder coating line;

j = Subscript denoting a specific powder coating applied;

m = Total number of participating powder coating lines;

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- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating;
- L_j = The VOM emission limitation for each coating applied, as specified in Section 218.204 ~~of this Subpart~~, in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM); and
- K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system that has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value ~~must~~shall be determined by the source based on tests conducted and records maintained ~~underpursuant to the requirements of Section 218.213 of this Subpart~~ demonstrating the amount of coating solids consumed as both liquid powder. Test methods and recordkeeping requirements ~~must~~shall be approved by the Agency and USEPA and ~~must~~shall be ~~contained~~ in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
-) K cannot exceed 0.9 for non-recycled powder coating systems; or
 -) K cannot exceed 2.0 for recycled powder coating systems.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines

Any owner or operator of a coating line that elects to comply by means of Section 218.212 ~~must of this Subpart shall~~ establish the following:

- a) By the date consistent with Section 218.210(f) ~~of this Subpart~~, or upon initial start-up of a new coating line replacing a pre-existing coating line, as defined in Section 218.212 ~~of this Subpart~~, or upon changing the method of compliance for a pre-existing coating line from the requirements of Section 218.204 or ~~Section 218.207 of this Subpart~~ to the requirements of Section 218.212 ~~of this Subpart~~, the owner or operator of the source ~~must shall~~ certify to the Agency that each participating coating line, as determined in ~~compliance accordance~~ with Section 218.212 ~~of this Subpart~~, will be in compliance with Section 218.212 ~~of this Subpart~~ on and after a date consistent with Section 218.210(f) ~~of this Subpart~~, or on and after the initial start-up date of ~~the such~~ participating coating lines. ~~The Such~~ certification ~~must shall~~ also include:
 - 1) The name and identification number of each participating coating line;
 - 2) The name and identification number of each coating as applied on each participating coating line;
 - 3) The weight of VOM per volume of each coating and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted ~~from form~~ the definition of VOM) as applied each day on each participating coating line;
 - 4) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each participating coating line;
 - 5) The method by which the owner or operator will create and maintain records each day as required in subsection (b) ~~of this Section~~;
 - 6) An example of the format in which the records required in subsection (b) ~~of this Section~~ will be kept;
 - 7) A statement that all coatings used on participating coating lines have a VOM content less than or equal to the applicable VOM limitation for

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~~the~~such coating ~~inset forth within~~ Appendix H ~~of this Part~~, and that all lines either:

- A) Underwent a change in operations incorporating a lower VOM coating on each applicable participating coating line after ~~the date of~~ January 1, 1991; or
 - B) Are not in compliance and continued compliance with the coating limitations in Section 218.204 ~~of this Subpart~~, compliance with which is required on or after March 15, 1996.
- 8) The method by which the owner or operator has calculated K, for the equation ~~contained in~~ Section 218.212(d)(2)(B) ~~of this Subpart~~, if applicable.
- b) On and after a date consistent with Section 218.210(f) ~~of this Subpart~~, or on and after the initial start-up date, the owner or operator of a source electing to comply with the requirements of this Subpart ~~under by means of~~ Section 218.212 ~~must of this Subpart shall~~ collect and record the following information on a daily basis for each participating coating line and maintain the information at the source for ~~a period of~~ three years:
- 1) The name and identification number of each coating as applied on each participating coating line;
 - 2) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied on each participating coating line on a daily basis; and
 - 3) The daily weighted average VOM content of all coatings as applied on each coating line as defined at 35 Ill. Adm. Code 211.1230.
- c) On and after a date consistent with Section 218.210(f) ~~of this Subpart~~, the owner or operator of participating coating lines ~~must~~shall:
- 1) Notify the Agency within 30 days ~~after following an occurrence of a~~ violation of Section 218.212 ~~of this Subpart~~; and

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- 2) Send to the Agency any record showing a violation of Section 218.212 ~~of this Subpart~~ within 30 days ~~after following the occurrence of~~ a violation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.214 Changing Compliance Methods

- a) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.212 ~~of this Subpart~~ to Section 218.204 or ~~Section 218.207 of this Subpart~~, the owner or operator of a source relying on Section 218.212 to demonstrate compliance with this Subpart for at least one ~~or more~~ pre-existing coating ~~lines~~ must ~~shall~~ comply with all requirements of Section 218.211(c)(1) or (e)(1) ~~of this Subpart~~, respectively.
- b) Upon changing the method of compliance with this Subpart from Section 218.212 to Section 218.204 or Section 218.207 ~~of this Subpart~~, the owner or operator of a source must ~~shall~~ comply with the requirements of Section 218.211(c) or (e) ~~of this Subpart~~, respectively.
- c) The owner or operator ~~shall~~ must certify that all remaining participating coating lines, if any, comply and continue to comply with the requirements of Section 218.212 ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.215 Wood Furniture Coating Averaging Approach

- a) On and after March 15, 1998, any owner or operator of a source subject to the limitations of Section 218.204(l) ~~of this Subpart~~ may elect to comply with the requirements of this Section rather than ~~complying with~~ the applicable emission limitations ~~set forth in Section 218.204(l)(1)(A) 218.204(l)(2)(A) or (B) of this Subpart~~. The source must continue to comply with the limitations ~~set forth in Section 218.204(l)(2) 218.204(l)(3) and (3)(4) of this Subpart~~. A source electing to rely on this Section to demonstrate compliance with the requirements of this Subpart must ~~shall~~ operate ~~under pursuant to~~ federally enforceable permit conditions approved by the Agency and USEPA.
- b) An owner or operator of a source subject to the limitations of Section 218.204(l) ~~of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart must establish, using by use of subsection (b)(1) or (b)(2) ~~of this~~

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~~Section~~, that, on a daily basis, actual emissions from the affected source are 90% ~~or less~~ ~~less than or equal to ninety percent~~ of the allowable emissions, that is $V_a \leq V_p$:

1) Option I:

$$A) \quad V_a = \sum_{i=1}^n (ER_{TC_i} \times TC_i); \text{ and}$$

$$B) \quad V_p = 0.9 \times \sum_{i=1}^n (0.8 \times TC_i)$$

2) Option II:

$$A) \quad V_a = \sum_{i=1}^n [(ER_{TC_i} \times TC_i) + (ER_{SE_i} \times SE_i) + (ER_{WC_i} \times WC_i) \\ + (ER_{PC_i} \times PC_i) + (ER_{ST_i} \times ST_i)]; \text{ and}$$

$$B) \quad V_p = 0.9 \times \sum_{i=1}^n [(1.8 \times TC_i) + (1.9 \times SE_i) + (9.0 \times WC_i) \\ + (1.2 \times PC_i) + (0.791 \times ST_i)]$$

where:

V_a = Actual VOM emissions from the source;

V_p = 90% of the allowable VOM emissions from the source;

n = Number of different wood furniture coatings as applied each day on each coating line;

i = Subscript denoting an individual coating;

TC_i = kilograms of solids in topcoat "i" used;

SE_i = kilograms of solids in sealer "i" used;

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WC _i =	kilograms of solids in wash coat "i" used;
PC _i =	kilograms of solids in non-topcoat pigmented coat "i" used;
ST _i =	liters of stain "i" used;
ER _{TCi} =	VOM content of topcoat "i" in kg VOM/kg solids, as applied;
ER _{SEi} =	VOM content of sealer "i" in kg VOM/kg solids, as applied;
ER _{WCi} =	VOM content of washcoat "i" in kg VOM/kg solids, as applied;
ER _{PCi} =	VOM content of non-topcoat pigmented coat "i" in kg VOM/kg solids, as applied;
ER _{STi} =	VOM content of stain "i" in kg VOM/liter (kg/l), as applied;

- c) Within ~~the structure of~~ the source's federally enforceable permit conditions, an owner or operator of a source electing to rely on this Section to demonstrate compliance with this Subpart ~~must~~shall provide to the Agency:
- 1) The name and identification number of each participating coating line;
 - 2) The name and identification number of each coating as applied on each participating coating line;
 - 3) A summary of how averaging will be used to meet the emission limitations;
 - 4) Documentation that $V_a \leq V_p$, as calculated in subsection (b)(1) or (2) ~~of this Section~~;
 - 5) A description of which types of coating materials will be included in the source's averaging program, which may include stains, basecoats, washcoats, sealers, and topcoats. Coating materials that are applied using continuous coaters may be used in an averaging program only if the source can determine the amount of coating used each day;
 - 6) A description of methods and procedures for quantifying emissions on a daily basis, including methods to determine the VOM content of each

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coating and the daily usage of each coating; and

- 7) A summary of the monitoring, recordkeeping, and reporting procedures that will be used to demonstrate daily compliance with the ~~options/inequalities~~ in subsections (b)(1) and (2) ~~of this Section~~. These procedures ~~must allow~~ shall be structured such that the Agency and the owner or operator of the source ~~to~~ can determine the source's compliance status for any given day.
- d) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~ shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for ~~a period of~~ three years:
 - 1) The name and identification number of each coating as applied on the coating line;
 - 2) The weight of VOM per weight of solids (kg VOM/kg solids) and the weight of solids (kg) of each coating as applied on each coating line on a daily basis;
 - 3) Certified product data sheets for each coating; and
 - 4) The calculations showing the source has met the conditions of the ~~options/inequalities~~ in subsection (b)(1) or (2) ~~of this Section~~.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~ shall:
 - 1) Notify the Agency within 30 calendar days ~~after following an occurrence of~~ a violation of this Section; and
 - 2) Send ~~to~~ the Agency any record showing a violation of this Section within 30 calendar days ~~after following the occurrence of~~ a violation.
- f) At least 30 calendar days before changing the method of compliance with this Subpart from ~~reliance on this Section to~~ reliance on Section ~~218.204(1)(1)(A) 218.204(1)(2)(A) or (B) of this Subpart~~, the owner or operator of

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a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines ~~must~~shall:

- 1) Comply with all requirements of Section 218.211(c)(1) ~~of this Subpart~~; and
- 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.216 Wood Furniture Coating Add-On Control Use

The owner or operator of a source subject to ~~the requirements of~~ Section ~~218.204(l)(1)218.204(l)(2) of this Subpart~~ may choose to comply with those limitations ~~underby~~relying on Section ~~218.204(l)(1)(D)218.204(l)(2)(D) of this Subpart~~ if the owner or operator meets all of the following requirements ~~are met~~:

- a) For each coating applied, determine the overall control efficiency needed to demonstrate compliance using the following equation:

$$R = \left[\frac{(C - L)}{C} \right] \times 100$$

where:

R = the necessary overall capture and control efficiency of the control system, as a percentage;

C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;

L = the emission limitation for that coating ~~under, as given in~~ Section ~~218.204(l)(1)(B)218.204(l)(2)(B) of this Subpart~~.

- b) Calculate the equivalent overall capture and control efficiency of the control device using the procedures of Section 218.105(c), (d), and (e) ~~of this Part~~.
- c) Demonstrate that the equivalent overall capture and control efficiency calculated

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using the procedures in Section 218.105(c), (d), and (e) ~~of this Part~~ is equal to or greater than the largest value of R calculated for each coating by the equation in subsection (a) ~~of this Section~~.

- d) Install, calibrate, operate, and maintain the applicable monitoring equipment for the control device ~~under as specified in~~ Section 218.105(d) ~~of this Part~~.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~ shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for ~~a period of~~ three years:
 - 1) The name and identification number of each coating as applied on the coating line;
 - 2) The weight of VOM per weight of solids (kg VOM/kg solids) of each coating as applied on each coating line on a daily basis;
 - 3) Certified product data sheets for each coating;
 - 4) Control device monitoring data;
 - 5) A log of operating time for the capture system, control device, monitoring equipment, and the associated coating line; and
 - 6) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- f) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~ shall:
 - 1) Notify the Agency within 30 calendar days ~~after following an occurrence of~~ a violation of this Section; and
 - 2) Send ~~to~~ the Agency any record showing a violation of this Section within 30 calendar days ~~after following the occurrence of~~ a violation.

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- g) At least 30 calendar days before changing the method of compliance with this Subpart from ~~reliance on this Section to reliance on Section 218.204(1)(1)(A)218.204(1)(2)(A)~~ or (B) ~~of this Subpart~~, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for ~~at least one or more~~ wood furniture coating ~~lines must~~ shall:
- 1) Comply with all requirements of Section 218.211(c)(1) ~~of this Subpart~~; and
 - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.217 Wood Furniture Coating and Flat Wood Paneling Coating Work Practice Standards

- a) Spray booth cleaning. Each owner or operator of a source subject to the limitations of Section 218.204(1) ~~must of this Subpart shall~~ not use compounds containing more than ~~8.0%8.0 percent~~, by weight, of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished ~~by replacing, that is,~~ the spray booth coating or other material used to cover the booth ~~is being replaced~~, the affected source ~~must~~ shall use ~~no more than 1.0 gallon or less~~ of organic solvent to prepare the booth ~~before prior to~~ applying the booth coating.
- b) Application equipment requirements. ~~An~~ No owner or operator of a source subject to the limitations of Section 218.204(1) ~~must not of this Subpart shall~~ use conventional air spray guns to apply coating materials to wood furniture ~~except~~ under the circumstances ~~specified in subsections (b)(1) through (4) of this Section:~~
- 1) To apply coating materials that have a VOM content ~~of no greater than 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids) or less~~, as applied;
 - 2) For repair coating under the following circumstances:

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- A) The coating materials are applied after ~~completing the completion of~~ the coating operation; or
- B) The coating materials are applied after the stain and before any other type of coating material is applied, and the coating materials are applied from a container ~~with that has~~ a volume of ~~no more than~~ 2.0 gallons ~~or less~~;
- 3) If the spray gun is aimed and triggered automatically, rather than manually; or
- 4) If emissions from the finishing application station are directed to a control device ~~under pursuant to~~ Section 218.216 ~~of this Subpart~~.
- c) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 218.204(l) or (p) ~~must of this Subpart shall~~:
 - 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
 - 2) Pump or drain all organic solvent used for line cleaning into closed containers;
 - 3) Collect all organic solvent used to clean spray guns in closed containers; and
 - 4) Control emissions from washoff operations by using closed tanks.
- d) Additional cleaning and storage requirements for flat wood paneling coating lines. Every owner or operator of a source subject to the limitations of Section 218.204(p) ~~must of this Subpart shall~~:
 - 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials and clean up spills immediately;
 - 2) Minimize emissions of VOM during the cleaning of storage, mixing, and conveying equipment;
 - 3) Keep mixing vessels that contain VOM-containing coatings and other VOM-containing materials closed except when specifically in use;

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- 4) On and after January 1, 2012, convey VOM-containing coatings, thinners, and cleaning materials in closed containers or pipes.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings

- a) On and after May 1, 2011, every owner or operator of a source subject to ~~the requirements of~~ Section 218.204(c) must of this Subpart shall:
- 1) Store all VOM-containing cleaning materials in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing cleaning materials;
 - 4) Convey VOM-containing cleaning materials from one location to another in closed containers or pipes; and
 - 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.
- b) On and after May 1, 2011, every owner or operator of a source subject to ~~the requirements of~~ Section 218.204(g) or 218.204(h) must of this Subpart shall:
- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;

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- 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
- 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment; and
- 6) Apply all coatings using at least one ~~or more~~ of the following application methods:
 - A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For ~~the purposes of~~ this subsection (b), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For ~~purposes of~~ this subsection (b), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - F) Brush coating, if subject to the requirements of Section 218.204(h); or
 - G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if ~~the such~~ method is approved in writing by the Agency.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings, and Miscellaneous Metal and Plastic Parts Coatings

- a) Every owner or operator of a coating line subject to the requirements of Section 218.204(a) must ~~218.204(a)(2) of this Subpart shall:~~

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- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, and coating-related waste materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, and coating-related waste materials;
 - 4) Convey VOM-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes;
 - 5) Minimize VOM emissions from cleaning of storage, mixing, and conveying equipment;
 - 6) Develop and implement a work practice plan to minimize VOM emissions from cleaning and ~~from purging of~~ equipment associated with coating lines subject to the limitations in Section ~~218.204(a)~~218.204(a)(2). The plan ~~must~~shall specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed in this subsection (a)(6) are minimized. If the owner or operator of the subject coating line has already implemented a work practice plan for the coating line ~~underpursuant to~~ Subpart IIII of 40 CFR 63, incorporated by reference in Section 218.112 ~~of this Part~~, the owner or operator may revise the plan as necessary to comply with this Section.
 - A) Vehicle body wiping;
 - B) Coating line purging;
 - C) Flushing of coating systems;
 - D) Cleaning of spray booth grates, walls, and equipment; and
 - F) Cleaning of external spray booth areas.
- b) Except ~~underas provided in~~ subsection (c) ~~of this Section~~, every owner or operator of a coating line described in Section 218.204(q) ~~must~~shall ~~of this Subpart~~ shall:

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- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
- 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing these materials;
- 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials;
- 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
- 5) Minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers; and
- 6) Apply all coatings using at least one or more of the following application methods:
 - A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For the purposes of this subsection (b)(6)(C), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For purposes of this subsection (b)(6)(E), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;

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- F) Airless spray;
- G) Air-assisted airless spray; or
- H) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.

c) ~~Despite~~Notwithstanding subsection (b) ~~of this Section~~, the application method limitations in subsection (b)(6) ~~do~~shall not apply to the following:

- 1) Coating lines complying with Section ~~218.207(j)(1)~~218.207(a)(1);
- 2) For metal parts and products coating operations: touch-up coatings, repair coatings, textured finishes, stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating;
- 3) For pleasure craft surface coating operations, ~~and~~extreme high gloss coatings;
- 4) For plastic parts and products coating operations, ~~and~~airbrush operations using 18.9 ~~liters~~ (5 ~~gallons~~) or less of coating per year; ~~and~~
- 5) For ammunition sealant operations, ~~and~~cap sealants and mouth waterproofing sealants.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART G: USE OF ORGANIC MATERIAL

Section 218.301 Use of Organic Material

~~A~~No person ~~must not~~shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except ~~under as provided in Sections 218.302, 218.303, and 218.304 of this Part and the following exception that, if:~~ If no odor nuisance exists, ~~then~~the limitation of this Subpart ~~applies~~shall apply only to photochemically reactive material.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.302 Alternative Standard

Emissions of organic material ~~exceeding in excess of~~ those permitted by Section 218.301 ~~of this Part~~ are allowable if ~~the~~ such emissions are controlled by one of the following methods:

- a) Flame, thermal, or catalytic incineration ~~so as that~~ either ~~reduces to reduce such~~ emissions to 10 ppm equivalent methane (molecular weight 16) or less, or ~~to convert~~ converts 85%85 percent of the hydrocarbons to carbon dioxide and water; or,
- b) A vapor recovery system which adsorbs ~~or and/or~~ condenses ~~or both~~ at least ~~85%85 percent~~ of the total uncontrolled organic material that would otherwise be emitted to the atmosphere; or,
- c) Any other air pollution control equipment ~~that is approved by the Agency and approved by the USEPA as a SIP revision~~ capable of reducing by ~~at least 85%85 percent or more~~ the uncontrolled organic material that would be otherwise emitted to the atmosphere and is approved by the Agency and approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.303 Fuel Combustion Emission Units

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to fuel combustion emission units.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.304 Operations with Compliance Program

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to any owner, operator, user, or manufacturer of paint, varnish, lacquer, coatings, or printing ink whose compliance program and project completion schedule, as required by 35 Ill. Adm. Code 201, provided for ~~reducing the reduction of~~ organic material used in ~~the~~ such process to ~~20%20 percent~~ or less of total volume by May 30, 1977.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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SUBPART H: PRINTING AND PUBLISHING

Section 218.401 Flexographic and Rotogravure Printing

- a) ~~An~~No owner or operator of a subject flexographic or rotogravure printing line ~~must not~~shall apply at any time any coating or ink ~~if~~unless the VOM content ~~exceeds~~does not exceed the limitation ~~specified in either subsection (a)(1) or (a)(2), as applicable. Compliance with this Section must be demonstrated through the applicable coating or ink analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.404(c) of this Part.~~ As an alternative to compliance with this subsection, a subject printing line may meet the requirements of subsection (b) or (c).

1) ~~Prior to August 1, 2010, either:~~

~~A) Forty percent VOM by volume of the coating and ink (minus water and any compounds which are specifically exempted from the definition of VOM); or~~

~~B) Twenty-five percent VOM by volume of the volatile content in the coating and ink; and~~

2) ~~On and after August 1, 2010:~~

~~1A)~~ For owners or operators of flexographic or rotogravure printing lines that do not print flexible packaging, either:

~~Ai)~~ 40%~~Forty percent~~ VOM by volume of the coating and ink ~~(excluding~~minus water and any compounds that are specifically exempted from the definition of VOM); or

~~Bi)~~ 20%~~Twenty-five~~ percent VOM by volume of the volatile content in the coating and ink;

~~2B)~~ For owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, either:

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~~A)~~ 0.8 kg VOM/kg (0.8 lbs VOM/lb) solids applied; or

~~B)~~ 0.16 kg VOM/kg (0.16 lbs VOM/lb) inks and coatings applied.

b) Weighted Averaging Alternative

1) ~~Before~~~~Prior to~~ August 1, 2010, ~~any~~ owner or operator of a subject flexographic or rotogravure printing line ~~must not~~~~shall~~ apply coatings or inks on the subject printing line ~~if~~~~unless~~ the weighted average, by volume, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~~~does not exceed~~ the limitation ~~specified in either subsection (a)(1)(A) (as determined by subsection (b)(1)(A)) or subsection (a)(1)(B)) (as determined by subsection (b)(1)(B)).~~ Compliance with this subsection must be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.404(d) of this Part.~~

A) The following equation ~~must~~~~shall~~ be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified in subsection (a)(1)(A) or (b)(2) of this Section.~~

$$VOM_{(i)(A)} = \frac{\sum_{i=1}^n C_i L_i (V_{si} + V_{VOMi})}{\sum_{i=1}^n L_i (V_{si} + V_{VOMi})}$$

where:

$VOM_{(i)(A)}$ = The weighted average VOM content in units of percent VOM by volume of all coatings and inks (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM) used each day;

i = Subscript denoting a specific coating or ink as applied;

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- n = The number of different coatings ~~or and/or~~ inks ~~or both~~ as applied each day on a printing line;
- C_i = The VOM content in units of percent VOM by volume of each coating or ink as applied (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);
- L_i = The liquid volume of each coating or ink as applied in units of l (gal);
- V_{si} = The volume fraction of solids in each coating or ink as applied; and
- V_{VOMi} = The volume fraction of VOM in each coating or ink as applied.

- B) The following equation ~~must~~~~shall~~ be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified in subsection (a)(1)(B) or (b)(2) of this Section.~~

$$VOM_{(i)(B)} = \frac{\sum_{i=1}^n C_i L_i V_{VOMi}}{\sum_{i=1}^n L_i V_{VOMi}}$$

where:

- VOM_{(i)(B)} = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings ~~or and/or~~ inks ~~or both~~ as applied each day on each printing line;

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- C_i = The VOM content in units of percent VOM by volume of the volatile matter in each coating or ink as applied;
- L_i = The liquid volume of each coating or ink as applied in units of l (gal) and
- V_{VMi} = The volume fraction of volatile matter in each coating or ink as applied.

- 2) ~~An~~On and after August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line that does not print flexible packaging ~~must not~~shall apply coatings or inks on the subject printing line ~~if~~unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~does not exceed the limitation ~~specified in either subsection (a)(1)(A)(a)(2)(A)(i) (calculated in compliance~~accordance with the equation in subsection (b)(1)(A)) or ~~(a)(1)(B)(a)(2)(A)(ii) (calculated in compliance~~accordance with the equation in subsection (b)(1)(B)) ~~of this Section~~. Compliance with this subsection (b)(2) ~~must~~shall be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.404(d) of this Subpart~~.
- 3) ~~An~~On and after August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, ~~must not~~shall apply coatings or inks on the subject printing line ~~if~~unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~does not exceed the limitation ~~specified in either subsection (a)(2)(A)(a)(2)(B)(i) (calculated in compliance~~accordance with the equation in subsection (b)(3)(A)) or subsection (a)(2)(B)(ii) (calculated in ~~compliance~~accordance with the equation in subsection (b)(3)(B)) ~~of this Section~~. Compliance with this subsection (b)(3) ~~must~~shall be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.404(d) of this Subpart~~.
- A) The following equation ~~must~~shall be used to determine if the weighted average VOM content of all coatings and inks as applied

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each day on the subject printing line exceeds the limitation
~~specified in subsection (a)(2)(A) (a)(2)(B)(i) of this Section.~~

$$VOM_{(A)} = \frac{\sum_{i=1}^n C_i W_i}{\sum_{i=1}^n W_i}$$

where:

- VOM_(A) = The weighted average VOM content in units of kg VOM per kg (lbs VOM per lb) solids of all coatings and inks used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings ~~or and/or inks~~ or both as applied each day on a printing line;
- C_i = The VOM content in units of kg VOM per kg (lbs VOM per lb) solids of each coating or ink as applied;
- W_i = Weight of solids in each coating or ink, as applied, in units of kg (lb).

- B) The following equation ~~must~~shall be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation
~~specified in subsection (a)(2)(B)(ii) of this Section.~~

$$VOM_{(B)} = \frac{\sum_{i=1}^n C_i L_i}{\sum_{i=1}^n L_i}$$

where:

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- VOM_(B) = The weighted average VOM content in units of kg (lbs) VOM per weight in kg (lbs) of all coatings or inks as applied each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings ~~or and/or~~ inks or both as applied each day on each printing line;
- C_i = The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;
- L_i = The weight of each coating or ink, as applied, in units of kg (lb).

c) Capture System and Control Device Requirements

~~1) Prior to August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line equipped with a capture system and control device shall operate the subject printing line unless the owner or operator meets the requirements in subsection (e)(1)(A)(i), (e)(1)(A)(ii), or (e)(1)(A)(iii), as well as subsections (e)(1)(D), (e)(5), and (e)(6).~~

~~A. One of:~~

- ~~i) A carbon adsorption system is used that reduces the captured VOM emissions by at least 90 percent by weight; or~~
- ~~ii) An incineration system is used that reduces the captured VOM emissions by at least 90 percent by weight; or~~
- ~~iii) An alternative VOM emission reduction system is used that is demonstrated to have at least a 90 percent control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and~~

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~~B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:~~

~~i) 75 percent where a publication rotogravure printing line is employed; or~~

~~ii) 65 percent where a packaging rotogravure printing line is employed; or~~

~~iii) 60 percent where a flexographic printing line is employed;~~

2) ~~An~~ On and after August 1, 2010, ~~no~~ owner or operator of a flexographic or rotogravure printing line that does not print flexible packaging and that is equipped with a capture system and control device must not~~shall~~ operate the subject printing line unless the owner or operator meets the requirements in subsection (c)(1)(A)(i), (c)(1)(A)(ii), or (c)(1)(A)(iii) ~~and~~ as well as subsections (c)(1)(B), ~~(c)(4)(e)(5), and (c)(5)(e)(6) of this Section;~~

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A) One of:

i) A carbon adsorption system that reduces the captured VOM emissions by at least 90% by weight;

ii) An incineration system that reduces the captured VOM emissions by at least 90% by weight;

iii) An alternative VOM emission reduction system that is demonstrated to have at least a 90% control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and

B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:

i) 75% where a publication rotogravure printing line is employed;

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ii) 65% where a packaging rotogravure printing line is employed; or

iii) 60% percent where a flexographic printing line is employed.

23) An ~~On and after August 1, 2010, no~~ owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and that is equipped with a capture system and control device must not shall operate the subject printing line unless the owner or operator meets the requirements in subsections ~~(c)(4)(e)(5) and (c)(5)(e)(6) of this Section~~ and the capture system and control device provides an overall reduction in VOM emissions of at least:

A) ~~65%-percent~~ in cases in which a subject printing line was first constructed at the subject source ~~before prior to~~ March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source ~~before prior to~~ January 1, 2010; ~~or~~

B) ~~70%-percent~~ when a subject printing line was first constructed at the subject source ~~before prior to~~ March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source on and after January 1, 2010; ~~or~~

C) ~~75%-percent~~ when a subject printing line was first constructed at the subject source on and after March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source ~~before prior to~~ January 1, 2010; or

D) ~~80%-percent~~ when a subject printing line was first constructed at the subject source on and after March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source on and after January 1, 2010; ~~or~~

34) ~~The~~ On and after August 1, 2010, the owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and non-flexible packaging on the same line and that is equipped with a control device is shall be subject to the requirements of ~~either~~ subsection (c)(1)(B) or ~~(c)(2)(e)(3) of this Section~~, whichever is more stringent, and, as well as subsections ~~(c)(4) and (c)(5), and (e)(6) of this Section;~~

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- ~~45~~) The control device is equipped with the applicable monitoring equipment ~~specified in Section 218.105(d)(2) of this Part and, except underas-~~
~~provided in~~ Section 218.105(d)(3) ~~of this Part~~, the monitoring equipment
is installed, calibrated, operated, and maintained according to vendor
specifications at all times the control device is in use; ~~and~~
- ~~56~~) The capture system and control device are operated at all times when the
subject printing line is ~~operating in operation~~. The owner or operator
~~must~~~~shall~~ demonstrate compliance with this subsection by using the
applicable capture system and control device test methods and procedures
~~specified in~~ Section 218.105(c) through ~~Section~~ 218.105(f) ~~of this Part~~ and
by complying with the recordkeeping and reporting requirements ~~specified~~
in Section 218.404(e) ~~of this Part~~. The owner or operator of a printing line
subject to the requirements in subsection (c)(1)(e)(1)(B) or (e)(2) ~~of this~~
~~Section~~ that performed all testing necessary to demonstrate compliance
with subsection (c)(1)(B) ~~before prior to~~ August 1, 2010, is not required to
retest ~~under pursuant to~~ this subsection (c)(5)(e)(6). The owner or operator
of a printing line subject to the requirements in subsection (c)(2)
~~must~~~~(e)(3) shall~~ perform testing in compliance with this subsection
(c)(5)(e)(6), even if the owner or operator already performed ~~the such~~
testing ~~before prior to~~ August 1, 2010, unless the ~~testing meets~~
~~the following~~ conditions ~~in subsections (c)(5)(A) through (E) are met~~.
Nothing in this subsection (c)(5)(e)(6), however, ~~limits shall limit~~ the
Agency's ability to require that the owner or operator perform testing
~~under pursuant to~~ 35 Ill. Adm. Code 201.282:
- A) On ~~and~~ after May 1, 2000, the owner or operator of the subject
printing line performed all testing necessary to demonstrate
compliance with subsection (c)(1)(B);
- B) ~~The Such~~ testing also demonstrated an overall control efficiency
equal to or greater than the applicable control efficiency
requirements in subsection (c)(2)(e)(3);
- C) The owner or operator submitted the results of ~~the such~~ tests to the
Agency, and ~~the Agency did not reject~~ the tests ~~were not rejected~~
~~by the Agency~~;

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- D) The same capture system and control device subject to the tests ~~referenced~~ in subsection ~~(c)(5)(A) (e)(6)(A) of this Section~~ is still being used by the subject printing line; and
 - E) The owner or operator complies with all recordkeeping and reporting requirements in Section 218.404(e)(1)(B).
- d) ~~An~~ owner or operator of subject flexographic or rotogravure printing lines that print flexible packaging or print flexible packaging and non-flexible packaging on the same line ~~must not shall~~ cause or allow VOM containing cleaning materials, including used cleaning towels, associated with the subject flexographic or rotogravure printing lines to be kept, stored, or disposed of in any manner other than in closed containers, or conveyed from one location to another in any manner other than in closed containers or pipes, except when specifically in use.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.402 Applicability

- a) Except as otherwise provided in Section 218.401, the limitations of Section 218.401 ~~of this Subpart~~ apply to all flexographic and rotogravure printing lines at a subject source. Sources with flexographic ~~or and/or~~ rotogravure printing lines ~~or both~~ are subject sources if:
 - 1) Total maximum theoretical emissions of VOM from all flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at the source ever exceed 90.7 Mg (100 tons) per calendar year, and the flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at the source are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP revision; or
 - 2) The flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at the source have a combined potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year.

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- b) The limitations of Section 218.401(d) ~~shall~~ apply to all owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, at a source where the combined emissions of VOM from all flexographic and rotogravure printing lines total at least 6.8 kg/day (15 lbs/day) ~~or more~~ (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines); ~~without in the absence of~~ air pollution control equipment.
- c) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet ~~Subpart G~~ (Section 218.301 or 218.302 ~~of this Part~~). Flexographic and rotogravure printing lines exempt from this Subpart are subject to ~~Subpart G~~ (Section 218.301 or 218.302 ~~of this Part~~). Rotogravure or flexographic equipment used for both roll printing and paper coating is subject to this Subpart.
- d) Once subject to the limitations of Section 218.401, a flexographic or rotogravure printing line is always subject to the limitations of Section 218.401 ~~of this Part~~.
- e) Any owner or operator of any flexographic or rotogravure printing line that is exempt from any of the limitations of Section 218.401 ~~of this Part~~ because of the criteria in this Section is subject to the recordkeeping and reporting requirements ~~specified~~ in Section 218.404(b) and (f) ~~of this Part~~, as applicable.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.403 Compliance Schedule

Every owner or operator of a flexographic ~~and/or~~ rotogravure printing line ~~or both must~~ shall comply with the applicable requirements of Section 218.401 and Section 218.404 ~~according to~~ of ~~this Part in accordance with~~ the applicable compliance schedule or schedules ~~specified~~ in subsection (a), (b), (c), or (d), ~~(e), (f), or (g)~~:

- a) ~~An~~ No owner or operator of a flexographic or rotogravure printing line that is exempt from the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) must not ~~of this Part shall~~ operate ~~that said~~ printing line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.404(b) ~~of this Part~~.
- b) ~~No owner or operator of a flexographic or rotogravure printing line complying by~~

Commented [BW76]: This should be stricken as you are removing entire paragraph. Below will need to be relabeled

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~~means of Section 218.401(a)(1) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.401(a)(1) and Section 218.404(e) of this Part.~~

- ~~e) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(b)(1) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.401(b)(1) and Section 218.404(d) of this Part.~~

Commented [JS77]: Excess strikes starting here, remove all.

- ~~d) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(c)(1)(B) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, the applicable provisions in Sections 218.401(e) and 218.404(e) of this Part.~~

- ~~e) An~~ No owner or operator of a flexographic or rotogravure printing line complying ~~under by means of Section 218.401(a) 218.401(a)(2), (b)(2), or (b)(3) or complying by means of Section 218.401(c)(1), 218.401(c)(2), or (c)(3) must not, or (e)(4), shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section ~~218.401(a) 218.401(a)(2), (b)(2), or (b)(3), and Section 218.401(c), as applicable, and all applicable provisions in Section 218.404 of this Part.~~

Commented [BW78]: See above comment as this would now be b-e)

- ~~c)f) An~~ No owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, ~~must not shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has complied with, and continues to comply with, ~~Sections Section 218.401(d) and Section 218.404(g) of this Part.~~

- ~~d)g) An~~ No owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, and that is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) ~~must not of this Part shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has complied with, and continues to comply with, ~~Sections Section 218.402(b) and Section 218.404(f) of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.404 Recordkeeping and Reporting

- a) The VOM content of each coating and ink and the efficiency of each capture system and control device must be determined by the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~ to establish the records required under this Section.
- b) Any owner or operator of a printing line which is exempted from any of the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) must ~~of this Part shall~~ comply with the following:
 - 1) By a date consistent with Section 218.106 ~~of this Part~~ or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, by January 1, 2012, the owner or operator of a flexographic or rotogravure printing line to which this subsection (b) applies ~~must~~ ~~is applicable shall~~ certify to the Agency that the flexographic and rotogravure printing line is exempt under ~~the provisions of~~ Section 218.402(a) ~~of this Part~~. The ~~Such~~ certification must ~~shall~~ include:
 - A) A declaration that the flexographic and rotogravure printing line is exempt from the limitations of the criteria in Section 218.401 ~~of this Part~~ because of Section 218.402(a) ~~of this Part~~; and
 - B) Calculations that demonstrate that the combined potential to emit of all flexographic and rotogravure printing lines at the source never equals or exceeds 22.7 Mg (25 tons) of VOM per year, and that total maximum theoretical emissions of VOM from all flexographic and rotogravure printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before applying the application of capture systems and control devices. Total maximum theoretical emissions of VOM for a flexographic or rotogravure printing source is the sum of maximum theoretical emissions of VOM from each flexographic and rotogravure printing line at the source. The following equation must ~~shall~~ be used to calculate total maximum theoretical emissions of VOM per calendar year before applying the application of capture systems and control devices for each flexographic and rotogravure printing line at the source:

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$$E_p = A \times B + 1095 (C \times D \times F)$$

where:

- E_p = Total maximum theoretical emissions of VOM from one flexographic or rotogravure printing line in units of kg/year (lbs/year);
- A = Weight of VOM per volume of solids of the coating or ink with the highest VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of coating or ink solids;
- B = Total volume of solids for all coatings and inks that can potentially be applied each year on the printing line in units of l/year (gal/year). The method by which the owner or operator accurately calculated the volume of each coating and ink as applied and the amount that can potentially be applied each year on the printing line ~~must~~shall be described in the certification to the Agency;
- C = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/l (lbs VOM/gal);
- D = The greatest volume of cleanup material or solvent used in any ~~eight-hour~~8-hour period;
- F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any ~~eight-hour~~8-hour period.

- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line referenced in this subsection ~~must~~shall collect and record all of the following information each year for each printing line

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and maintain the information at the source for ~~a period of~~ three years:

- A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content and the volume of each coating and ink as applied each year on each printing line.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line exempted from the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) ~~must of this Part~~ ~~shall~~ notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year before ~~applying the application of~~ capture systems and control devices, or that the combined potential to emit of all flexographic and rotogravure printing lines at the source ~~is at least equals or exceeds~~ 22.7 Mg (25 tons) of VOM in any calendar year, by sending a copy of ~~the such~~ record to the Agency within 30 days after the exceedance occurs.
- c) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~under by means of~~ Section 218.401(a) ~~must of this Part shall~~ comply with the following:
- 1) By a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b) 218.403(e)~~, as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance ~~for from~~ an existing subject printing line from Section 218.401(b) or ~~Section 218.401(c) of this Part~~ to Section 218.401(a) ~~of this Part~~, the owner or operator of a subject printing line ~~must shall~~ certify to the Agency that the printing line will be in compliance with Section 218.401(a) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b) 218.403(e)~~, as applicable, or on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section 218.401(a)(2) ~~(B)~~ ~~must shall~~ certify in ~~compliance accordance~~ with this subsection (c)(1) even if the owner or operator of ~~the such~~ line submitted a certification ~~before prior to~~ January 1, 2010. ~~The Such~~

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certification ~~must~~shall include:

- A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.
- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b) 218.403(e)~~, as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~under by means of~~ Section 218.401(a) ~~must of this Part shall~~ collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b) 218.403(e)~~, as applicable, the owner or operator of a subject printing line ~~must~~shall notify the Agency in the following instances:
- A) Any record showing violation of Section 218.401(a) ~~must of this Part shall~~ be reported by sending a copy of ~~the such~~ record to the Agency within 30 days ~~after following the occurrence of~~ the violation.
 - B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(a) ~~of this Part~~ to Section 218.401(b) or (c) ~~of this Part~~, the owner or operator ~~must~~shall comply with all requirements of subsection (d)(1) or (e)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(a) ~~of this Part~~ to Section 218.401(b) or (c) ~~of this Part~~, the owner or operator ~~must~~shall comply with all requirements of subsection (d) or (e) ~~of this Section~~, respectively.

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- d) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~underby means of~~ Section 218.401(b) ~~mustshall~~ comply with the following:
- 1) By a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance for an existing subject printing line from Section 218.401(a) or (c) ~~of this Part~~ to Section 218.401(b) ~~of this Part~~, the owner or operator of the subject printing line ~~mustshall~~ certify to the Agency that the printing line will be in compliance with Section 218.401(b) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, or on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section 218.401(b)(3) ~~mustshall~~ certify in ~~compliance~~ with this subsection (d)(1) even if the owner or operator of ~~thesuch~~ line submitted a certification ~~beforeprior to~~ January 1, 2010. ~~TheSuch~~ certification ~~mustshall~~ include:
- A) The name and identification number of each printing line which will comply ~~underby means of~~ Section 218.401(b) ~~of this Part~~.
- B) The name and identification number of each coating and ink available for use on each printing line.
- C) The VOM content of each coating and ink as applied each day on each printing line.
- D) The method by which the owner or operator will accurately calculate the volume, or weight of solids, as applicable, of each coating and ink as applied each day on each printing line, and on and after January 1, 2012, the weight of each coating or ink.
- E) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) ~~of this Section~~.
- F) An example of the format in which the records required in subsection (d)(2) ~~of this Section~~ will be kept.

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- 2) On and after a date consistent with Section 218.106 ~~of this Part, or Section 218.403(b)218.403(e)~~, as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~underby means of~~ Section 218.401(b) ~~mustof this Part shall~~ collect and record all of the following information each day for each printing line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content and the volume, or weight of solids, as applicable, of each coating and ink as applied each day on each printing line, and on and after January 1, 2012, the weight of each coating or ink.
 - C) The daily-weighted average VOM content of all coatings and inks as applied on each printing line.
- 3) On and after a date consistent with Section 218.106 ~~of this Part, or Section 218.403(b)218.403(e)~~, as applicable, the owner or operator of a subject printing line ~~mustshall~~ notify the Agency in the following instances:
- A) Any record showing violation of Section 218.401(b) ~~mustof this Part shall~~ be reported by sending a copy of ~~thesuch~~ record to the Agency within 30 days ~~afterfollowing the occurrence of~~ the violation.
 - B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(b) ~~of this Part~~ to Section 218.401(a) or (c) ~~of this Part~~, the owner or operator ~~mustshall~~ comply with all requirements of subsection (c)(1) or (e)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(b) ~~of this Part~~ to Section 218.401(a) or (c) ~~of this Part~~, the owner or operator ~~mustshall~~ comply with all requirements of subsection (c) or (e) ~~of this Section~~, respectively.
- e) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~underby means of~~ Section 218.401(c) ~~mustof~~

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~~this Part shall~~ comply with the following:

- 1) By a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from Section 218.401(a) or (b) ~~of this Part~~ to Section 218.401(c) ~~of this Part~~, the owner or operator of the subject printing line ~~must~~shall either:
 - A) Perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with Section 218.401(c) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, or on and after the initial start-up date; or
 - B) If not required to perform ~~such testing under~~pursuant to Section ~~218.401(c)(5)218.401(e)(6)~~, submit a certification to the Agency that includes:
 - i) A declaration that the owner or operator is not required to perform testing ~~under~~pursuant to Section ~~218.401(c)(5)218.401(e)(6)~~;
 - ii) The dates that testing demonstrating compliance with Section ~~218.401(c)(2)218.401(e)(3)~~ was performed; and
 - iii) The dates that the testing results ~~of such testing~~ were submitted to the Agency.
- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~under by means of~~ Section 218.401(c) ~~must~~of this Part shall collect and record all of the following information each day for each printing line and maintain the information at the facility for ~~a period of~~ three years:
 - A) Control device monitoring data.

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- B) A log of operating time for the capture system, control device, monitoring equipment, and the associated printing line.
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~Section 218.403(b)218.403(e)~~, as applicable, the owner or operator of a subject printing line ~~must~~shall notify the Agency in the following instances:
- A) Any record showing violation of Section 218.401(c) ~~must of this Part shall~~ be reported by sending a copy of ~~the such~~ record to the Agency within 30 days ~~after following the occurrence of~~ the violation.
 - B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(c) ~~of this Part~~ to Section 218.401(a) or (b) ~~of this Part~~, the owner or operator ~~must~~shall comply with all requirements of subsection (c)(1) or (d)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(c) ~~of this Part~~ to Section 218.401(a) or (b) ~~of this Part~~, the owner or operator ~~must~~shall comply with all requirements of subsection (c) or (d) ~~of this Section~~, respectively.
- 4) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, the owner or operator of a printing line subject to the requirements in Section ~~218.401(c)(2) or (c)(3) must~~218.401(c)(3) or (e)(4) shall submit to the Agency records documenting the date the printing line was constructed at the subject source and the date the control device for ~~the such~~ printing line was constructed at the subject source.
- f) Any owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, and that is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) ~~must~~shall:

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- 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, and upon modification of a printing line, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from the requirements in Section 218.401(d) because of the criteria in Section 218.402(b);
 - B) Calculations that demonstrate that combined emissions of VOM from all flexographic and rotogravure printing lines (including inks and solvents used for cleanup operations associated with ~~thesuch~~ printing lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment;
- 2) On and after January 1, 2012, collect and record the following information each day for each subject printing line:
 - A) The name and identification number of each coating, ink, and cleaning solvent as applied each day on each printing line;
 - B) The VOM content of each coating and ink (measured in weight of VOM per volume of coating or ink; or in weight of VOM per weight of coating or ink) as applied each day on each printing line, and the volume or weight of each coating or ink, as applicable;
 - C) The weight of VOM per volume of each cleaning solvent and the volume of each cleaning solvent used each day on each printing line;
 - D) The total daily emissions of VOM from each printing line (including solvents used for cleanup operations associated with the printing line) and the sum of daily emissions from all subject printing lines at the source; and
- 3) Notify the Agency in writing if the combined emissions of VOM from all flexographic and rotogravure printing lines (including inks and solvents used for cleanup operations associated with the flexographic and rotogravure lines) at the source ever equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment; within 30 days after the event occurs

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- g) Any owner or operator of a printing line subject to the limitations of Section 218.401(d) ~~must~~shall:
- 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, submit a certification to the Agency describing the practices and procedures that the owner or operator will follow to ensure compliance with the limitations of Section 218.401(d); and
 - 2) Notify the Agency of any violation of Section 218.401(d) by sending a description of the violation and copies of records documenting ~~the~~such violations to the Agency within 30 days ~~after following the occurrence of~~ the violation.
- h) All records required by subsections (f) and (g) ~~must of this Section shall~~ be retained for at least three years and ~~must~~shall be made available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.405 Lithographic Printing: Applicability

- a) Every owner or operator of lithographic printing lines is subject to the recordkeeping and reporting requirements in Section 218.411 ~~of this Subpart~~.
- b) ~~Specific requirements and exclusions~~Prior to August 1, 2010, Sections 218.407 through 218.410 of this Subpart shall apply to:
- 1) ~~All owners or operators of heatset web offset lithographic printing lines unless:~~
- A) ~~Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset lithographic printing lines) at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices. To determine a source's total maximum theoretical emissions of VOM for the purposes of this subsection (b)(1)(A), the owner or operator shall use the calculations set forth in Section 218.411(a)(1)(C) of this Subpart; or~~

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- ~~B) Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing lines at the source requires the owner or operator to limit production or capacity of these printing lines to total VOM emissions of 90.7 Mg/yr (100 TPY) or less, before the application of capture systems and control devices;~~
- ~~2) All owners or operators of lithographic printing lines, unless the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) never exceed 45.5 kg/day (100 lbs/day), as determined in accordance with Section 218.411(a)(1)(B), before the application of capture systems and control devices.~~
- ~~e) On and after August 1, 2010:~~
- 1) The requirements in Section 218.407(a)(1)(B) through (a)(1)(E) and 218.407(b) and all applicable provisions in Sections 218.409 through 218.411 ~~of this Subpart shall~~ apply to all owners or operators of heatset web offset lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever exceed 45.5 kg/day (100 lbs/day), calculated in ~~compliance~~accordance with Section ~~218.411(a)(2)(B) 218.411(b)(2)(B)~~, before ~~applying the application of~~ capture systems and control devices;
 - 2) The requirements in Section 218.407(a)(1)(A) and (a)(2) through (a)(5) and all applicable provisions in Sections 218.409 through 218.411 ~~of this Subpart shall~~ apply to all owners or operators of lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever equal or exceed 6.8 kg/day (15 lbs/day), calculated in ~~compliance~~accordance with Section ~~218.411(a)(1)(B) 218.411(b)(1)(B)~~, before ~~applying the application of~~ capture systems and control devices;
 - 3) ~~Despite Notwithstanding~~ subsection ~~(b)(2)(e)(2) of this Section~~, at sources where the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ~~are at least equal or exceed~~ 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day),

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calculated in ~~compliance~~accordance with Section ~~218.411(a)(1)(B)~~218.411(b)(1)(B), before ~~applying the application of~~ capture systems and control devices, the following exclusions ~~shall~~ apply unless the owner or operator of the source certifies ~~under~~pursuant to Section ~~218.411(f)(1)(B)~~218.411(g)(1)(B) that the source will not ~~use~~make use of any of ~~the such~~ exclusions:

- A) ~~The requirements of~~ Section 218.407(a)(1)(A), (a)(2), and (a)(3) ~~do of this Subpart shall~~ not apply to lithographic printing lines with a total fountain solution reservoir of less than 3.8 ~~liters~~ (1 ~~gal~~gallon);
- B) ~~The requirements of~~ Section 218.407(a)(3) ~~do of this Subpart shall~~ not apply to sheet-fed offset lithographic printing lines with maximum sheet size of 11x17 inches or smaller;
- C) ~~The requirements of~~ Section 218.407(a)(4) ~~do of this Subpart shall~~ not apply to up to a total of 416.3 ~~liters~~ (110 ~~gal~~gallons) per year of cleaning materials used on all lithographic printing lines at the source; and
- D) ~~The requirements of~~ Section 218.407(a)(4)(A)(i) ~~do~~shall not apply to lithographic printing lines at the source. Instead, ~~the requirements of~~ Section 218.407(a)(4)(A)(ii) ~~applies~~shall apply to ~~those such~~ lines.

~~cd~~) If a lithographic printing line at a source is or becomes subject to at least one or more of the limitations in Section 218.407 ~~of this Subpart~~, the lithographic printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines

- a) ~~An~~No owner or operator of lithographic printing lines subject to the requirements of this Subpart ~~must not~~shall:
 - 1) Cause or allow the operation of any heatset web offset lithographic

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printing line unless:

- A) The total VOM content in the as-applied fountain solution meets one of the following conditions:
- i) ~~1.6%~~~~1.6 percent~~ or less, by weight;
 - ii) ~~3%~~~~3 percent~~ or less, by weight, and the temperature of the fountain solution is maintained below ~~15.6 °C (60 °F)~~~~15.6 °C (60 °F)~~, measured at the reservoir or the fountain tray; or
 - iii) ~~5%~~~~5 percent~~ or less, by weight, and the as-applied fountain solution contains no alcohol;
- B) The air pressure in the dryer is maintained lower than the air pressure of the press room; ~~so such~~ that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
- C) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced: ~~as follows:~~
- i) ~~Prior to August 1, 2010, by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon); and~~
- ~~i) ii) — On and after August 1, 2010, by~~ By at least ~~90%~~~~90 percent~~, by weight, for afterburners first constructed at the source ~~before prior to~~ January 1, 2010;
- ~~ii) — By~~ By at least ~~95%~~~~95 percent~~, by weight, for afterburners ~~first~~ constructed at the source on or after January 1, 2010; or
- ~~iii) — To or to~~ To a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);

Commented [JS82]: Excess strikes starting here, remove all. Plus:

- Letter C) paragraph above is too indented and second/third lines need to align properly.
- Too much space between C) and stricken line i).

Commented [JS83]: Excess underscore.

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- D) The afterburner complies with all monitoring provisions ~~specified in Section 218.410(c) of this Subpart;~~ and
 - E) The afterburner is operated at all times when the printing line is ~~operating in operation,~~ except the afterburner may be shut down between November 1 and April 1 ~~under as provided in Section 218.107 of this Part;~~
- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is ~~5%5 percent~~ or less, by weight, and the as-applied fountain solution contains no alcohol.;
- 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:
- A) The VOM content of the as-applied fountain solution is ~~5%5 percent~~ or less, by weight; or
 - B) The VOM content of the as-applied fountain solution is ~~8.5%8.5 percent~~ or less, by weight, and the temperature of the fountain solution is maintained below ~~15.6 °C (60 °F)15.6°C (60°F),~~ measured at the reservoir or the fountain tray.;
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
- A) The VOM content of the as-used cleaning solution is less than or equal to:
 - i) ~~30%30 percent~~, by weight; or
 - ii) On and after August 1, 2010, for owners or operators of sources that meet the applicability criteria in Section ~~218.405(b)(3)218.405(e)(3)~~ and do not certify ~~under pursuant to Section 218.411(f)(1)(B)218.411(g)(1)(B)~~ that the source will not make use of any of the exclusions in Section ~~218.405(b)(3)218.405(e)(3)~~, ~~70%70 percent~~, by weight; or

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- B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20 °C (68 °F); ~~20°C (68°F);~~
- 5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored, or disposed of in any manner other than in closed containers, except when specifically in use.
- b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of subsection (a)(1)(C) ~~of this Section~~ may use a control device other than an afterburner, if:
- 1) The control device reduces VOM emissions from the press dryer exhausts as follows:
- ~~A) Prior to August 1, 2010, by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon); and~~
- ~~B) On and after August 1, 2010:~~
- ~~Ai) By at least 90%90 percent, by weight, for control devices first constructed at the source beforeprior to January 1, 2010;~~
- ~~Bi) By at least 95%95 percent, by weight, for control devices first constructed at the source on or after January 1, 2010; or~~
- ~~Ciii) To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);~~
- 2) The owner or operator submits to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
- 3) The use of the control device with testing, monitoring, and recordkeeping in ~~compliance~~accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Commented [JS84]: Excess strikes starting here, remove all.

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Section 218.409 Testing for Lithographic Printing

- a) Testing to demonstrate compliance with the requirements of Section 218.407 ~~must of this Subpart shall~~ be conducted by January 1, 2012, unless ~~the such~~ testing was conducted on or after May 9, 1995, the test was conducted ~~underpursuant to~~ a test method approved by USEPA, the current operating conditions and operating capacity of the press are consistent with the operation of the press during ~~the such~~ testing, and the test results were submitted to the Agency. If an owner or operator of a printing line performed ~~the such~~ testing ~~before prior to~~ May 9, 1995, the owner or operator ~~must shall~~ either retest ~~underpursuant to~~ this Section or submit to the Agency all information necessary to demonstrate that the ~~previous prior~~ testing was conducted ~~underpursuant to~~ a test method approved by USEPA, and that the current operating conditions and operating capacity of the press are consistent with the operation of the press during ~~previous prior~~ testing. Testing must then ~~Thereafter, testing shall~~ be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart. ~~The Such~~ testing ~~must shall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~must shall~~ notify the Agency in writing 30 days ~~before in advance of~~ conducting ~~the such~~ testing to allow the Agency to be present during ~~the such~~ testing.
- b) The methods and procedures of Section 218.105(d) and (f) ~~must shall~~ be used for testing to demonstrate compliance with the requirements of Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust ~~must shall~~ be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60.Appendix A-760, appendix A~~, incorporated by reference at Section

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218.112-~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

- A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and
 - C) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~ shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;
- 4) ~~Despite Notwithstanding~~ the criteria or requirements in Method 25 that ~~specify~~ specifies a minimum probe temperature of ~~129 °C (265 °F)~~ ~~+29 °C (265 °F)~~, the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to ~~176.7 °C (350 °F)~~ ~~+76.7 °C (350 °F)~~;
 - 5) During testing, the printing lines ~~must~~ shall be operated at representative operating conditions and flow rates; and
 - 6) During testing, an air flow direction indicating device, such as a smoke stick, ~~must~~ shall be used to demonstrate ~~100%~~ ~~100 percent~~ emissions capture efficiency for the dryer in ~~compliance~~ ~~accordance~~ with Section 218.407(a)(1)(B) ~~of this Subpart~~.

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- c) Testing to demonstrate compliance with the VOM content limitations in Section 218.407(a)(1)(A), (a)(2), (a)(3), and (a)(4)(A) ~~of this Subpart~~, and to determine the VOM content of fountain solutions, fountain solution additives, cleaning solvents, cleaning solutions, and inks ~~(underpursuant to the requirements of Section 218.411(a)(1)(B), (b)(1)(B), or (a)(2)(B)(b)(2)(B) of this Subpart, as applicable)~~, ~~must, shall~~ be conducted upon request of the Agency or as otherwise specified in this Subpart, as follows:
- 1) The applicable test methods and procedures ~~specified in Section 218.105(a) must of this Part shall~~ be used; ~~provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, must shall~~ be used to demonstrate compliance; or
 - 2) The manufacturer's specifications for VOM content for fountain solution additives, cleaning solvents, and inks may be used if ~~the such~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance accordance~~ with methods ~~specified in Section 218.105(a) of this Part; provided, however, Method 24 must shall~~ be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 218.407(b) ~~must of this Subpart shall~~ be conducted ~~under as set forth in the owner's owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions underpursuant to~~ Section 218.407(b) ~~of this Subpart~~.
- e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions ~~must shall~~ be conducted in ~~compliance accordance~~ with the applicable methods and procedures ~~specified in Section 218.110 of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature
- 1) The owner or operator of any lithographic printing lines relying on the temperature of the fountain solution to demonstrate compliance ~~must shall~~ install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.

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- 2) The temperature monitor must be capable of reading with an accuracy of 1 °C or 2 °F~~1°C or 2°C~~; and must be attached to an automatic, continuous recording device, such as a strip chart, recorder, or computer, with at least the same accuracy; that is installed, calibrated, and maintained in ~~compliance~~ with the manufacturer's specifications. If the automatic, continuous recording device malfunctions, the owner or operator ~~must~~shall record the temperature of the fountain solution at least once every two operating hours. The automatic, continuous recording device ~~must~~shall be repaired or replaced as soon as practicable.
- b) Fountain Solution VOM Content. The owner or operator of any lithographic printing lines subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~must of this Subpart shall~~:
 - 1) For a fountain solution to which VOM is not added automatically:
 - A) Maintain records of the VOM content of the fountain solution in ~~compliance~~ with Section 218.411(d)(2)(C)~~218.411(e)(2)(C)~~; or
 - B) Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and ~~shall~~ determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:
 - i) With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 0.5%~~0.5 percent~~. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in ~~compliance~~ with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per eight-hour~~8-hour~~ shift or once per batch of fountain solution prepared or modified, whichever is longer; or
 - ii) With a conductivity meter, if it is demonstrated that a refractometer and hydrometer cannot distinguish between

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compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing ~~95%, 100%, and 105%~~^{95 percent, 100 percent, and 105 percent} of the applicable VOM content limit. The conductivity meter reading for the fountain solution must be referenced to the conductivity of the incoming water. A standard solution ~~must~~^{shall} be used to calibrate the conductivity meter for the type of VOM used in the fountain solution, in ~~compliance~~^{accordance} with manufacturer's specifications;

- 2) For fountain solutions to which VOM is added at the source with automatic feed equipment, determine the VOM content of the as-applied fountain solution based on the setting of the automatic feed equipment which makes additions of VOM up to a pre-set level. Records ~~must be retained~~^{must be retained in compliance} of the VOM content of the fountain solution ~~must be retained in compliance~~^{accordance} with Section ~~218.411(d)(2)(D)~~^{218.411(e)(2)(D)} of ~~this Subpart~~. The equipment used to make automatic additions must be installed, calibrated, operated, and maintained in ~~compliance~~^{accordance} with manufacturer's specifications.
- c) Afterburners for Heatset Web Offset Lithographic Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to Section 218.407(a)(1)(C) ~~must~~^{of this Subpart shall}:
 - 1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of ~~3 °C or 5 °F~~^{3°C or 5°F} on the afterburner in ~~compliance~~^{accordance} with Section 218.105(d)(2) ~~of this Part and in~~^{accordance with} the manufacturer's specifications. Monitoring ~~must~~^{shall} be performed at all times when the afterburner is operating; and
 - 2) Install, calibrate, operate, and maintain, in ~~compliance~~^{accordance} with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

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- d) Other Control Devices for Heatset Web Offset Lithographic Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to this Subpart ~~must~~shall install, maintain, calibrate, and operate ~~the~~such monitoring equipment ~~underas set forth in the owner's owner~~ or operator's plan approved by the Agency and USEPA ~~underpursuant to~~ Section 218.407(b)~~of this Subpart~~.
- e) Cleaning Solution
- 1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 218.407(a)(4)(A) ~~of this Subpart~~ must:
- A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
- i) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance~~accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
- ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.407(a)(4)(A) ~~of this Subpart~~;
- B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the ~~use~~usage of cleaning solvent and water (or other non-VOM) ~~underas set forth in~~ Section ~~218.411(e)(2)218.411(f)(2) of this Subpart~~.
- 2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.407(a)(4)(B) ~~of this Subpart~~ must keep records for ~~the~~such cleaning solutions used on ~~the any such~~ lines ~~underas set forth in~~ Section ~~218.411(e)(2)(C)218.411(f)(2)(C) of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.411 Recordkeeping and Reporting for Lithographic Printing

a) ~~Exempt Units prior to August 1, 2010. An owner or operator of lithographic printing lines exempt from the limitations of Section 218.407 of this Subpart prior to August 1, 2010, because of the criteria in Section 218.405(b) of this Subpart, shall comply with the following:~~

Commented [BW86]: Needs to be stricken and placed below as a b)

1) ~~Upon initial start up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:~~

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A) ~~A declaration that the source is exempt from the control requirements in Section 218.407 of this Part because of the criteria in Section 218.405(b) of this Subpart;~~

B) ~~Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, as follows:~~

i) ~~To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were in operation;~~

ii) ~~To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 218.409(e) of this Subpart shall be used;~~

iii) ~~To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 shall be used in calculating emissions from all non heatset inks except when using an impervious substrate, and a factor of 0.80 shall be used in~~

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~~calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and~~

~~iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing lines at the source, no retention factor is used;~~

~~C) Either a declaration that the source, through federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source to no more than 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices or calculations which demonstrate that the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 tons/yr). Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source:~~

$$E_p = (R \times A \times B) + (C \times D) + 1095 (F \times G \times H)$$

~~where:-~~

~~E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lb/yr);~~

~~A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal) of solids;~~

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- ~~B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;~~
- ~~C = Weight of VOM per volume of fountain solution with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal);~~
- ~~D = The total volume of fountain solution that can potentially be used each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the certification to the Agency;~~
- ~~F = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/l (lb/gal) of such material;~~
- ~~G = The greatest volume of cleanup material or solvent used in any 8-hour period;~~
- ~~H = The highest fraction of cleanup material or solvent that is not recycled or recovered for offsite disposal during any 8-hour period;~~
- ~~R = The multiplier representing the amount of VOM not retained in the substrate being used. For paper, R=0.8. For metal, plastic, or other impervious substrates, R=1.0;~~
- ~~D) — A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning~~

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~~solvents, and a declaration that all such tests have been properly conducted in accordance with Section 218.409(e)(1) of this Subpart;~~

- 2) ~~Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. Such notification shall include a copy of all records of such event.~~

~~b)~~ Exempt Units on and after August 1, 2010

Commented [BW88]: See above comment

- 1) Lithographic Printing Lines Exempt ~~underpursuant to~~ Section ~~218.405(b)(2)218.405(e)(2)~~. By August 1, 2010, or upon initial start-up of a new lithographic printing line, whichever is later, and upon modification of a lithographic printing line, an owner or operator of lithographic printing lines exempt from ~~the limitations in~~ Section 218.407 ~~of this Subpart~~ because of the criteria in Section ~~218.405(b)(2) must218.405(e)(2) of this Subpart shall~~ submit a certification to the Agency that includes the information ~~specified in~~ either subsections (a)(1)(A)(b)(1)(A), (a)(1)(B)(b)(1)(B), and (a)(1)(D)(b)(1)(D) ~~of this Section~~ or subsections (a)(1)(A)(b)(1)(A) and (a)(1)(C)(b)(1)(C) ~~of this Section~~, as applicable. An owner or operator complying with subsection (a)(1)(B) ~~must(b)(1)(B) shall~~ also comply with ~~the requirements in~~ subsection (a)(1)(E)(b)(1)(E) ~~of this Section~~. An owner or operator complying with subsection (a)(1)(C) ~~must(b)(1)(C) shall~~ also comply with ~~the requirements in~~ subsection (a)(1)(F)(b)(1)(F) ~~of this Section~~:
- A) A declaration that the source is exempt from ~~the requirements in~~ Section 218.407 ~~of this Subpart~~ because of the criteria in Section ~~218.405(b)(2)218.405(e)(2) of this Subpart~~;
- B) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ~~are less than do not equal or exceed~~ 6.8 kg/day (15 lbs/day); before ~~usingthe use of~~ capture systems and control devices, as follows:

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- i) To calculate daily emissions of VOM, the owner or operator ~~must~~ shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were ~~operating in~~ operation;
- ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the test methods and procedures ~~set forth in~~ Section 218.409(c) ~~must of this Subpart shall~~ be used;
- iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 ~~must~~ shall be used ~~to calculate in~~ calculating emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must~~ shall be used ~~to calculate in~~ calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must~~ shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and
- iv) To determine VOM emissions from cleaning solutions used on lithographic printing lines at the source, an emission adjustment factor of 0.50 ~~must~~ shall be used ~~to calculate in~~ calculating emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is demonstrated to be less than 10 mmHg measured at ~~20 °C (68 °F)~~ 20°C (68°F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of ~~at least equal to or greater than~~ 10 mmHg measured at ~~20 °C (68 °F)~~ 20°C (68°F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used.

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- C) As an alternative to the calculations in subsection ~~(a)(1)(B)(b)(1)(B)~~, a statement that the source uses less than the amount of material ~~specified in subsection (a)(1)(C)(i)(b)(1)(C)(i)~~ or (ii), as applicable, during each calendar month. A source may determine that it emits ~~less than~~below 6.8 kg/day (15 lbs/day) of VOM based ~~on~~upon compliance with ~~the~~such material use limitations. If the source exceeds this amount of material use in a ~~given~~ calendar month, the owner or operator must, within 15 days after the end of that month, complete the emissions calculations of subsection ~~(a)(1)(B)(b)(1)(B)~~ to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection ~~(a)(1)(C)(b)(1)(C)~~ as an alternative to the calculations in subsection ~~(a)(1)(B)(b)(1)(B)~~. If a source has both heatset web offset and either nonheatset web offset or sheetfed lithographic printing operations, or has all three types of printing operations, the owner or operator may not ~~make use of~~ this alternative and must use the calculations in subsection ~~(a)(1)(B)(b)(1)(B)~~.
- i) The sum of all sheetfed and nonheatset web offset lithographic printing operations at the source: 242.3 ~~liters~~ (64 ~~gallons~~) of cleaning solvent and fountain solution additives, combined; or
- ii) The sum of all heatset web offset lithographic printing operations at the source: 204.1 kg (450 lbs) of ink, cleaning solvent, and fountain solution additives, combined.
- D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all ~~such~~ tests have been properly conducted in ~~compliance~~accordance with Section 218.409(c)(1) ~~of this Subpart~~.
- E) For sources complying with subsection ~~(a)(1)(B)(b)(1)(B) of this Section~~, notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain

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solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source are ever at least equal or exceed 6.8 kg/day (15 lbs/day); before using the use of capture systems and control devices, within 30 days after the event occurs. If such emissions of VOM at the source are at least equal or exceed 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), the source must~~shall~~ comply with the requirements in subsection (a)(2)(b)(2) of this Section;

- F) For sources complying with subsection (a)(1)(C)(b)(1)(C) of this Section, comply with the following:
- i) Maintain material use records showing that the source uses less than the amount of material specified in subsections (a)(1)(C)(i)(b)(1)(C)(i) and (a)(1)(C)(ii)(b)(1)(C)(ii) during each calendar month, or, if the source exceeds the material use limitations, records showing that the source exceeded the limitations but emitted less than did not emit 6.8 kg/day (15 lbs/day) or more of VOM, and provide the~~such~~ records to the Agency upon request. The~~On and after January 1, 2012, such~~ records must~~shall~~ include the name, identification number, and VOM content of each cleaning solvent and fountain solution additive used per calendar month, the volume of each cleaning solvent and fountain solution additive used per calendar month for each sheetfed and nonheatset web offset lithographic printing operation, and the weight of each cleaning solvent, ink, and fountain solution additive used per calendar month for each heatset web offset lithographic printing operation; and
 - ii) Notify the Agency in writing if the source exceeds the material use limitations for six consecutive calendar months, or if the source changes its method of compliance from subsection (a)(1)(C)(b)(1)(C) to subsection (a)(1)(B)(b)(1)(B) of this Section, within 30 days after the event occurs;
- 2) Heatset web offset lithographic printing lines exempt under pursuant to Section 218.405(b)(1)218.405(e)(1) but not exempt under pursuant to Section 218.405(b)(2)218.405(e)(2). By August 1, 2010, or upon initial

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start-up of a new heatset web offset lithographic printing line, whichever is later, and upon modification of a heatset web offset lithographic printing line, an owner or operator of heatset web offset lithographic printing lines that are exempt from ~~the limitations in~~ Section 218.407 ~~under of this Subpart pursuant to the criteria in~~ Section 218.405(b)(1) ~~218.405(e)(1) of this Subpart~~, but that are not exempt ~~under pursuant to the criteria in~~ Section 218.405(b)(2) ~~218.405(e)(2) of this Subpart~~, ~~must~~ shall submit a certification to the Agency that includes the information ~~specified in subsections (a)(2)(A)(b)(2)(A) through (a)(2)(C)(b)(2)(C) of this Section.~~ ~~The~~ Such owner or operator ~~must~~ shall also comply with ~~the requirements in subsection (a)(2)(D)(b)(2)(D) of this Section:~~

- A) A declaration that the source is exempt from the control requirements in Section 218.407 ~~of this Subpart~~ because of the criteria in Section 218.405(b)(1) ~~218.405(e)(1) of this Subpart~~, but is not exempt ~~under pursuant to the criteria in~~ Section 218.405(b)(2) ~~218.405(e)(2) of this Subpart~~;
- B) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ~~are less than~~ never exceed 45.5 kg/day (100 lbs/day) before ~~using the use of~~ capture systems and control devices, as follows (the following methodology ~~must~~ shall also be used to calculate whether a source exceeds 45.5 kg/day (100 lbs/day) ~~to determine for purposes of determining~~ eligibility for the exclusions ~~set forth in~~ Section 218.415(c)(3), in ~~compliance accordance~~ with Sections 218.411(f)(2)(A)(i) ~~218.411(g)(2)(A)(i)~~;
 - i) To calculate daily emissions of VOM, the owner or operator ~~must~~ shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were ~~operating in~~ operation;

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- ii) To determine the VOM content of the inks, fountain solution additives, and cleaning solvents, the test methods and procedures ~~set forth in Section 218.409(c) must of this Subpart shall~~ be used;
 - iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 ~~must shall~~ be used ~~to calculate in calculating~~ emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must shall~~ be used ~~to calculate in calculating~~ emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must shall~~ be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; ~~and~~
 - iv) To determine VOM emissions from cleaning solvents used on lithographic printing lines at the source, an emission adjustment factor of 0.50 ~~must shall~~ be used ~~to calculate in calculating~~ emissions from cleaning solution in shop towels, if the VOM composite vapor pressure of ~~the such~~ cleaning solution is demonstrated to be less than 10 mmHg measured at ~~20 °C (68 °F) 20 °C (68 °F)~~ and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at ~~20 °C (68 °F) 20 °C (68 °F)~~ and for shop towels that are not kept in closed containers, no emission adjustment factor is used.;
- C) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all ~~such~~ tests have been properly conducted in ~~compliance accordance~~ with Section 218.409(c)(1). ~~of this Subpart;~~
- D) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain

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solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day); before ~~using the use of~~ capture systems and control devices, within 30 days after the event occurs.

be) Unless complying with subsections ~~(a)(1)(C)(b)(1)(C)~~ and ~~(a)(1)(F)(b)(1)(F)~~ of ~~this Section~~, an owner or operator of lithographic printing lines subject to ~~the requirements of~~ subsection (a) ~~must~~ ~~(b) of this Section shall~~ collect and record ~~either the information specified in either subsection (b)(1)(e)(1) or (b)(2)(e)(2) of this Section~~ for all lithographic printing lines at the source:

- 1) Standard recordkeeping, including ~~the following~~:
 - A) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - B) A daily record which shows whether a lithographic printing line at the source was ~~operating in operation~~ on that day;
 - C) The VOM content and the volume of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month;
 - E) The VOM emissions in lbs/day for the month, calculated in ~~compliance~~ ~~accordance~~ with subsection (a)(1)(B) ~~or (a)(2)(B), (b)(1)(B), or (b)(2)(B) of this Section~~, as applicable;
- 2) Purchase and inventory recordkeeping, including ~~the following~~:
 - A) The name, identification, and VOM content of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;

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- B) Inventory records from the beginning and end of each month indicating the total volume of each fountain solution additive, lithographic ink, and cleaning solvent to be used on any lithographic printing line at the source;
- C) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
- D) A daily record which shows whether a lithographic printing line at the source was in operation on that day;
- E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained ~~underpursuant to~~ subsections ~~(b)(2)(A)(e)(2)(A), (b)(2)(B)(e)(2)(B), and (b)(2)(C)(e)(2)(C) of this Section;~~
- F) The VOM emissions in lbs/day for the month, calculated in ~~a~~ ~~compliance~~ ~~accordance~~ with subsection (a)(1)(B) ~~or (a)(2)(B);~~ ~~(b)(1)(B), or (b)(2)(B) of this Section,~~ as applicable.

~~cd~~) An owner or operator of a heatset web offset lithographic printing line subject to the control requirements of Section 218.407(a)(1)(C) or (b)(1) ~~must of this Subpart~~ ~~shall~~ comply with the following:

- 1) By August 1, 2010, upon initial start-up of a new printing line, and upon initial start-up of a new control device for a heatset web offset printing line, submit a certification to the Agency that includes ~~the following:~~
 - A) An identification of each heatset web offset lithographic printing line at the source;
 - B) A declaration that each heatset web offset lithographic printing line is in compliance with ~~the requirements of~~ Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E) or (b) ~~of this Subpart,~~ as appropriate;

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- C) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~ and the date that ~~thesuch~~ device was first constructed at the source;
 - D) The control requirements in Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~ with which the lithographic printing line is complying;
 - E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~, as applicable; and
 - F) A declaration that the monitoring equipment required under Section 218.407(a)(1)(D) or (b) ~~of this Subpart~~, as applicable, has been properly installed and calibrated according to manufacturer's specifications.;
- 2) If testing of the afterburner or other approved control device is conducted ~~underpursuant to~~ Section 218.409(b) ~~of this Subpart~~, the owner or operator ~~mustshall~~, within 90 days after conducting ~~thesuch~~ testing, submit a copy of all test results to the Agency and ~~shall submit~~ a certification to the Agency that includes ~~the following~~:
- A) A declaration that all tests and calculations necessary to demonstrate whether the lithographic printing lines are in compliance with Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~, as applicable, have been properly performed;
 - B) A statement whether the lithographic printing lines are or are not in compliance with Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~, as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in ~~complianceaccordance~~ with Section 218.410(c) or (d) ~~of this Subpart~~, as applicable.;
- 3) Except ~~underas provided in~~ subsection (c)(3)(D)(ii) ~~(d)(3)(D)(ii) of this Section~~, collect and record daily the following information for each

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heatset web offset lithographic printing line subject to ~~the requirements of~~ Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~:

- A) Afterburner or other approved control device monitoring data in ~~compliance~~ accordance with Section 218.410(c) or (d) ~~of this Subpart~~, as applicable;
- B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
- C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
- D) A log detailing checks on the air flow direction or air pressure of the dryer and press room at least once per calendar month while the line is operating to ensure compliance with ~~the requirements of~~ Section 218.407(a)(1)(B) ~~of this Subpart as follows~~:
 - i) ~~Prior to August 1, 2010, at least once per 24-hour period while the line is operating; and~~
 - ii) ~~On and after August 1, 2010, at least once per calendar month while the line is operating~~
- 4) Notify the Agency in writing of any violation of Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~ within 30 days after the occurrence of ~~the~~ such violation. ~~The~~ Such notification ~~must~~ shall include a copy of all records of ~~the~~ such violation.;
- 5) If changing its method of compliance between subsections (a)(1)(C) and (b) of Section 218.407 ~~of this Subpart~~, certify compliance for the new method of compliance in ~~compliance~~ accordance with subsection ~~(c)(1)(d)(1) of this Section~~ at least 30 days before making ~~the~~ such change, and perform all tests and calculations necessary to demonstrate that ~~the~~ such printing lines will be in compliance with ~~the requirements of~~ Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E) ~~of this Subpart~~, or Section 218.407(b) ~~of this Subpart~~, as applicable.

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- ~~de~~) An owner or operator of a lithographic printing line subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~must of this Subpart shall~~:
- 1) By August 1, 2010, and upon initial start-up of a new lithographic printing line, certify to the Agency that fountain solutions used on each lithographic printing line will be in compliance with the applicable VOM content limitation. ~~The Such~~ certification ~~must shall~~ include:
 - A) Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset;
 - B) Identification of each centralized fountain solution reservoir and each lithographic printing line that it serves;
 - C) A statement that the fountain solution will comply with the VOM content limitations in Section 218.407(a)(1)(A), (a)(2), or (a)(3), as applicable;
 - D) Initial documentation that each type of fountain solution will comply with the applicable VOM content limitations, including copies of manufacturer's specifications, ~~test results, if any,~~ formulation data and calculations, ~~and any test results~~;
 - E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity meter, or recordkeeping procedures with detailed description of the compliance methodology; and
 - F) A sample of the records that will be kept ~~underpursuant to~~ subsection ~~(d)(2) (e)(2) of this Section~~.
 - 2) Collect and record ~~the following information~~ for each fountain solution:
 - A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing lines or centralized reservoir using ~~thesuch~~ batch of fountain solution, and the applicable VOM content

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limitation for the batch;

- B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter ~~under, pursuant to~~ Section 218.410(b)(1)(B), to demonstrate compliance with the applicable VOM content limit in Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~of this Subpart~~:

- i) The date and time of preparation, and each subsequent modification, of the batch;
- ii) The results of each measurement taken in ~~compliance~~ accordance with Section 218.410(b) ~~of this Subpart~~;
- iii) Documentation of the periodic calibration of the meter in accordance with the manufacturer's specifications, including date and time of calibration, personnel conducting the calibration, identity of standard solution, and resultant reading; and
- iv) Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting the adjustment, and results;

- C) If the VOM content of the fountain solution is determined ~~under, pursuant to~~ Section 218.410(b)(1)(A) ~~of this Subpart~~, for each batch of as-applied fountain solution:

- i) Date and time of preparation and each subsequent modification of the batch;
- ii) Volume or weight, as applicable, and VOM content of each component used in, or subsequently added to, the fountain solution batch;
- iii) Calculated VOM content of the as-applied fountain solution; and
- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in

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Section 218.407(a)(1)(A), (a)(2) and (a)(3) ~~of this Subpart,~~
as specified in the source's operating permit;

- D) If the VOM content of the fountain solution is determined ~~underpursuant to~~ Section 218.410(b)(2) ~~of this Subpart,~~ for each setting:
- i) VOM content limit corresponding to each setting;
 - ii) Date and time of initial setting and each subsequent setting;
 - iii) Documentation of the periodic calibration of the automatic feed equipment in ~~compliance~~~~accordance~~ with the manufacturer's specifications; and
 - iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 218.407(a)(1)(A), (a)(2), and (a)(3) ~~of this Subpart,~~ as specified in the source's operating permit;
- E) If the owner or operator relies on the temperature of the fountain solution to comply with ~~the requirements in~~ Section 218.407(a)(1)(A)(ii) or (a)(3)(B) ~~of this Subpart:~~
- i) The temperature of the fountain solution at each printing line, as monitored in ~~compliance~~~~accordance~~ with Section 218.410(a); and
 - ii) A maintenance log for the temperature monitoring devices and automatic, continuous temperature recorders detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) Notify the Agency in writing of any violation of Section 218.407 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. ~~The~~~~Such~~ notification ~~must~~~~shall~~ include a copy of all records of ~~the~~~~such~~ violation.

~~c~~f) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to ~~the requirements of~~ Section 218.407 ~~must~~~~of~~ ~~this Subpart shall:~~

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- 1) By August 1, 2010, and upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, other than those excluded ~~underpursuant to~~ Section ~~218.405(b)(3)(C)~~ ~~218.405(e)(3)(C)~~, and the handling of all cleaning materials, will be in compliance with ~~the requirements of~~ Section 218.407(a)(4)(A) or (a)(4)(B) and (a)(5). ~~The of this Subpart, and such~~ certification ~~must~~ shall also include:
 - A) A statement that the cleaning solution will comply with the limitations in Section 218.407(a)(4);
 - B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - C) A sample of the records that will be kept ~~underpursuant to~~ subsection ~~(c)(2)(f)(2) of this Section~~; and
 - D) A description of the practices that ensure that VOM-containing cleaning materials are kept in closed containers;
- 2) Collect and record the following information for each cleaning solution used on each lithographic printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~ accordance with Section 218.409(c) ~~of this Subpart~~;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

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- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A)-~~of this Subpart~~, and that is not prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~accordance with Section 218.409(c)-~~of this Subpart~~;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if ~~thesuch~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance~~accordance with methods ~~specified~~ in Section 218.105(a)-~~of this Part~~;
- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.407(a)(4)(B)-~~of this Subpart~~:

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- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in ~~compliance~~ with Section 218.409(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~the~~ such manufacturer's specifications are based on results of tests conducted in ~~compliance~~ with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in ~~compliance~~ with Section 218.409(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~the~~ such manufacturer's specifications are based on results of tests conducted in ~~compliance~~ with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any; ~~and~~
- 3) Notify the Agency in writing of any violation of Section 218.407 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. ~~The~~ Such notification ~~must~~ ~~shall~~ include a copy of all records of ~~the~~ such violation.
- ~~fe~~) The owner or operator of lithographic printing lines subject to ~~at least one~~ ~~or more~~ of the exclusions ~~set forth~~ in Section ~~218.405(b)(3)~~ ~~must~~ ~~218.405(e)(3)~~ ~~shall~~:

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- 1) By August 1, 2010, or upon initial start-up of a new lithographic printing line that is subject to at least one or more of the exclusions set forth in Section 218.405(b)(3)218.405(e)(3), whichever is later, submit a certification to the Agency that includes either:
 - A) A declaration that the source is subject to at least one or more of the exclusions set forth in Section 218.405(b)(3)218.405(e)(3) and a statement indicating which such exclusions apply to the source; or
 - B) A declaration that the source will not make use of any of the exclusions set forth in Section 218.405(b)(3)218.405(e)(3);
- 2) Unless the source has certified in complianceaccordance with subsection (f)(1)(B)(g)(1)(B) of this Section that it will not make use of any of the exclusions set forth in Section 218.405(b)(3)218.405(e)(3):
 - A) Collect and record the following information for all lithographic printing lines at the source:
 - i) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before usingthe use of capture systems and control devices, determined in complianceaccordance with the calculations in subsection (a)(2)(B)(b)(2)(B) of this Section; and
 - ii) The name, identification, and volume of all cleaning materials used per calendar month on lithographic printing lines at the source that do not comply with the cleaning material limitations in Section 218.407(a)(4)-of this Subpart;
 - B) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5

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kg/day (100 lbs/day); before ~~using the use of~~ capture systems and control devices, within 30 days after the event occurs;

- 3) If changing from ~~using utilization of~~ the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~ to opting out of ~~the such~~ exclusions ~~under pursuant to~~ subsection (f)(1)(B)(g)(1)(B) of this Section, or if there is a change at the source ~~so such~~ that the exclusions no longer apply, certify compliance in ~~compliance accordance~~ with subsection (f)(1)(B)(g)(1)(B) of this Section within 30 days after making ~~the such~~ change, and perform all tests and calculations necessary to demonstrate that ~~the such~~ printing lines will be in compliance with the applicable requirements of Section 218.407 ~~of this Subpart; and~~

- 4) If changing from opting out of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~under 218.405(e)(3)~~ pursuant to subsection (f)(1)(B)(g)(1)(B) of this Section to ~~using the utilization of such~~ exclusions, certify compliance in ~~compliance accordance~~ with subsection (f)(1)(A)(g)(1)(A) of this Section within 30 days after making ~~the such~~ change.

- ~~gk)~~ The owner or operator ~~must shall~~ maintain all records required by this Section at the source for ~~at least a minimum period of~~ three years and ~~must shall~~ make all records available to the Agency upon request.

- ~~hi)~~ Provisions ~~to Calculate for Calculation of~~ Emissions from Heatset Web Offset Lithographic Printing Operations. To calculate VOM emissions from heatset web offset lithographic printing operations for purposes other than the applicability thresholds ~~specified in~~ Section 218.405 ~~of this Subpart~~, sources may use the following emission adjustment factors (for Annual Emissions Reports or permit limits, for example):

- 1) A factor of 0.80 may be used ~~to calculate in calculating~~ emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must shall~~ be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines.;

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- 2) To determine VOM emissions from fountain solutions that contain no alcohol, an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

- A) The VOM emitted from the fountain solution ~~must~~shall be calculated using the following equation:

$$VOM_{fs} = 0.30 \times VOM_{tot} + (0.70 \times VOM_{tot}) \times (1 - DE)$$

where:

VOM_{tot} = Total VOM in the fountain solution;

VOM_{fs} = VOM emitted from the fountain solution;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0;

- B) For fountain solutions that contain alcohol, impervious substrates such as metal or plastic, or non-heatset lithographic presses, no emission adjustment factor is used.

- 3) To determine VOM emissions from cleaning solutions used on heatset web offset lithographic printing lines at the source, an emission adjustment factor of 0.50 may be used ~~to calculate~~in calculating emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at 20 °C (68 °F)~~20°C (68°F)~~ and the shop towels are kept in closed containers. To determine VOM emissions from automatic blanket wash solution with a VOM composite vapor pressure of less than 10 mmHg measured at 20 °C (68 °F)~~20°C (68°F)~~, an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

- A) The VOM emitted from the automatic blanket wash solution ~~must~~shall be calculated using the following equation.

$$VOM_{bw} = 0.60 \times VOM_{tot} + (0.40 \times VOM_{tot}) \times (1 - DE)$$

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where:

VOM_{tot} = Total VOM in the blanket wash;

VOM_{tow} = VOM emitted from the blanket wash;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0.5

- B) For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20 °C (68 °F)~~20°C (68°F)~~, for shop towels that are not kept in closed containers, and for impervious substrates such as metal or plastic, no emission adjustment factor is used.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.412 Letterpress Printing Lines: Applicability

- a) Except ~~underas provided in~~ subsection (b) ~~of this Section~~, on and after August 1, 2010, the limitations in Sections 218.413 through 218.416 ~~of this Subpart shall~~ apply to:
- 1) All heatset web letterpress printing lines at a source if all heatset web letterpress printing lines (including solvents used for cleanup operations associated with heatset web letterpress printing lines) at the source have a total potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year; and
 - 2) All letterpress printing lines at a source where the combined emissions of VOM from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines) are ever at least equal or exceed 6.8 kg/day (15 lbs/day), ~~without in the absence of~~ air pollution control equipment, calculated in ~~compliance accordance~~ with Section 218.417(b)(1)(B).
- b) ~~Despite Notwithstanding~~ subsection (a) ~~of this Section~~, the requirements of Section 218.413(a)(2) ~~do of this Subpart shall~~ not apply to up to 416.3 ~~liters~~ (110

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~~gal~~gallons) per year of cleaning materials used on letterpress printing lines at a subject source.

- c) On and after August 1, 2010, the recordkeeping and reporting requirements in Section 218.417 ~~of this Subpart shall~~ apply to all owners or operators of letterpress printing lines.
- d) If a letterpress printing line at a source is or becomes subject to at least one ~~or more~~ of the limitations in Section 218.413 ~~of this Subpart~~, the letterpress printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.413 Emission Limitations and Control Requirements for Letterpress Printing Lines

- a) ~~An~~No owner or operator of letterpress printing lines subject to ~~the requirements of~~ this Subpart must not~~shall~~:
 - 1) Cause or allow the operation of any heatset web letterpress printing line that meets the applicability requirements of Section 218.412(a)(1) unless:
 - A) The air pressure in the dryer is maintained lower than the air pressure of the press room; ~~so such~~ that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
 - B) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced ~~as follows~~:
 - i) By ~~90%~~90 percent, by weight, for afterburners first constructed at the source ~~before~~prior to January 1, 2010;
 - ii) By ~~95%~~95 percent, by weight, for afterburners first constructed at the source on or after January 1, 2010; or
 - iii) To a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);

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- C) The afterburner complies with all monitoring provisions ~~specified in Section 218.416(a) of this Subpart;~~ and
- D) The afterburner is operated at all times when the printing line is ~~operating in operation,~~ except the afterburner may be shut down between November 1 and April 1 ~~under as provided in Section 218.107 of this Part;~~
- 2) Cause or allow the use of a cleaning solution on any letterpress printing line unless:
 - A) The VOM content of the as-used cleaning solution is 70% or less ~~less than or equal to 70 percent,~~ by weight; or
 - B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at 20 °C (68 °F) ~~20 °C (68 °F);~~
- 3) Cause or allow VOM-containing cleaning materials, including used cleaning towels, associated with any letterpress printing line to be kept, stored, or disposed of in any manner other than in closed containers, except when specifically in use.
- b) An owner or operator of a heatset web letterpress printing line subject to ~~the requirements of subsection (a)(1)(B) of this Section~~ may use a control device other than an afterburner, if:
 - 1) The control device reduces VOM emissions from the press dryer exhausts ~~as follows:~~
 - A) By 90% ~~90 percent,~~ by weight, for control devices first constructed at the source ~~before~~ prior to January 1, 2010;
 - B) By 95% ~~95 percent,~~ by weight, for control devices first constructed at the source on or after January 1, 2010; or
 - C) To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);

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- 2) The owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and
- 3) The use of the control device in ~~compliance~~accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.415 Testing for Letterpress Printing Lines

- a) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.413 ~~must of this Subpart shall~~ be conducted by the owner or operator by January 1, 2012, unless ~~the such~~ testing has been conducted within the two years immediately preceding January 1, 2012. ~~Testing must then~~ Thereafter, testing shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart. ~~The Such~~ testing ~~must shall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~must shall~~ notify the Agency in writing 30 days ~~before in advance of~~ conducting ~~the such~~ testing to allow the Agency to be present during ~~the such~~ testing.
- b) The methods and procedures of Section 218.105(d) and (f) ~~must shall~~ be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, as follows:
 - 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust ~~must shall~~ be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60. Appendix A-760, appendix A~~, incorporated by reference in Section

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218.112-~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

- A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and
 - C) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~ shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;
- 4) ~~Despite Notwithstanding~~ the criteria or requirements in Method 25 which ~~specify~~ specifies a minimum probe temperature of ~~129 °C (265 °F)~~ 129 °C (265 °F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to ~~176.7 °C (350 °F)~~ 176.7 °C (350 °F);
 - 5) During testing, the printing lines ~~must~~ shall be operated at representative operating conditions and flow rates; and
 - 6) During testing, an air flow direction indicating device, such as a smoke stick ~~must~~ shall be used to demonstrate ~~100%+100 percent~~ emissions capture efficiency for the dryer in ~~compliance~~ accordance with Section 218.413(a)(1)(A)-~~of this Subpart~~.

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- c) Testing to demonstrate compliance with the VOM content limitations in Section 218.413(a)(2)(A) ~~of this Subpart~~, and to determine the VOM content of cleaning solvents, cleaning solutions, and inks ~~under (pursuant to the requirements of~~ Section 218.417(b)(1)(B) ~~must of this Subpart)~~, shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:
- 1) The applicable test methods and procedures ~~specified in~~ Section 218.105(a) ~~must of this Part shall~~ be used; ~~provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, must shall~~ be used to demonstrate compliance; or
 - 2) The manufacturer's specifications for VOM content for cleaning solvents and inks may be used if ~~the such~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance accordance~~ with methods ~~specified in~~ Section 218.105(a) ~~of this Part; provided, however, Method 24 must shall~~ be used to determine compliance.
- d) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.413(b) ~~must of this Subpart shall~~ be conducted ~~under as set forth in the owner's owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions under pursuant to~~ Section 218.413(b) ~~of this Subpart~~.
- e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions ~~must shall~~ be conducted in ~~compliance accordance~~ with the applicable methods and procedures ~~specified in~~ Section 218.110 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.416 Monitoring Requirements for Letterpress Printing Lines

- a) Afterburners for Heatset Web Letterpress Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to Section 218.413(a)(1)(B) ~~must of this Subpart shall~~:
- 1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of ~~3 °C or 5 °F 3°C or 5°F~~ on the afterburner in ~~compliance accordance~~ with Section 218.105(d)(2) ~~of this Part~~ and in ~~compliance accordance~~ with the manufacturer's specifications. Monitoring ~~must shall~~ be performed at all times when the afterburner is operating; and

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- 2) Install, calibrate, operate, and maintain, in ~~compliance~~ accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- b) Other Control Devices for Heatset Web Letterpress Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to this Subpart ~~must~~ shall install, maintain, calibrate, and operate ~~the~~ such monitoring equipment ~~under~~ as set forth in the owner's or operator's plan approved by the Agency and USEPA ~~under~~ pursuant to Section 218.413(b) ~~of this Subpart~~.
- c) Cleaning Solution
 - 1) The owner or operator of any letterpress printing line relying on the VOM content of the cleaning solution to comply with Section 218.413(a)(2)(A) ~~of this Subpart~~ must:
 - A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
 - i) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance~~ accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
 - ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.413(a)(2)(A) ~~of this Subpart~~;
 - B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the ~~use~~ usage of cleaning solvent and water (or other non-VOM) ~~under~~ as set forth in Section 218.417(c)(2) ~~of this Subpart~~.
 - 2) The owner or operator of any letterpress printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.413(a)(2)(B)

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~~of this Subpart~~ must keep records for ~~thesuch~~ cleaning solutions used on any such lines ~~underas set forth in~~ Section 218.417(c)(2)(C) ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.417 Recordkeeping and Reporting for Letterpress Printing Lines

- a) By August 1, 2010, or upon initial start-up of a new heatset web letterpress printing line, whichever is later, and upon ~~modifying~~modification of a heatset web letterpress printing line, an owner or operator of a heatset web letterpress printing line exempt from any of the limitations of Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) ~~must~~shall submit a certification to the Agency that includes:
 - 1) A declaration that the source is exempt from ~~the requirements in~~ Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) ~~of this Subpart~~;
 - 2) Calculations which demonstrate that the source's total potential to emit VOM ~~is less than~~does not equal or exceed 22.7 Mg (25 tons) per year.
- b) An owner or operator of a letterpress printing line exempt from any of the limitations of Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(2) ~~must~~shall:
 - 1) By August 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon ~~modifying~~modification of a letterpress printing line, submit a certification to the Agency that includes the information ~~specified in either~~ subsections (b)(1)(A) through (b)(1)(C) ~~of this Section~~, or subsections (b)(1)(A) and (b)(1)(D) ~~of this Section~~, as applicable:
 - A) A declaration that the source is exempt from the control requirements in Section 218.413 ~~of this Part~~ because of the criteria in Section 218.412(a)(2) ~~of this Subpart~~;
 - B) Calculations that demonstrate that combined emissions of VOM from all letterpress printing lines (including inks and solvents used for cleanup operations associated with the letterpress printing

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lines) at the source ~~are less than~~~~never equal or exceed~~ 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment, as follows:

- i) To calculate daily emissions of VOM, the owner or operator ~~must~~~~shall~~ determine the monthly emissions of VOM from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines) and divide this amount by the number of days during that calendar month that letterpress printing lines at the source were ~~operating in~~~~operation~~;
- ii) To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures ~~set forth in~~ Section 218.415(c) ~~must of this Subpart shall~~ be used;
- iii) To determine VOM emissions from inks used on letterpress printing lines at the source, an ink emission adjustment factor of 0.05 ~~must~~~~shall~~ be used ~~to calculate in calculating~~ emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must~~~~shall~~ be used ~~to calculate in calculating~~ emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must~~~~shall~~ be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and
- iv) To determine VOM emissions from cleaning solutions used on letterpress printing lines at the source, an emission adjustment factor of 0.50 ~~must~~~~shall~~ be used ~~to calculate in calculating~~ emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at 20 °C (68 °F)~~20°C (68°F)~~ and the shop towels are kept in closed containers. Otherwise, no retention factor is used;

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- C) A description and the results of all tests used to determine the VOM content of inks and cleaning solvents, and a declaration that ~~these~~all such tests have been properly conducted in ~~compliance~~accordance with Section 218.415(c)(1) ~~of this Subpart;~~
- D) As an alternative to the calculations in subsection (b)(1)(B), a statement that the source uses less than the amount of material ~~specified~~ in subsections (b)(1)(D)(i) or (b)(1)(D)(ii), as applicable, during each calendar month. A source may determine that it emits ~~less than~~below 6.8 kg/day (15 lbs/day) of VOM based upon compliance with ~~these~~such material use limitations. If the source exceeds this amount of material use in a ~~given~~ calendar month, the owner or operator must, within 15 days ~~after~~of the end of that month, complete the emissions calculations of subsection (b)(1)(B) to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection as an alternative to the calculations in subsection (b)(1)(B).
 - i) The sum of all sheetfed and nonheatset web letterpress printing operations at the source: 242.3 ~~liters~~ (64 ~~gal~~gallons) of cleaning solvent; or
 - ii) The sum of all heatset web letterpress printing operations at the source: 204.1 kg (450 lbs) of ink and cleaning solvent;
- 2) For sources complying with subsection (b)(1)(B) ~~of this Section~~, notify the Agency in writing if the combined emissions of VOM from all letterpress printing lines (including inks and solvents used for cleanup operations associated with the letterpress printing lines) at the source ever equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment, within 30 days after the event occurs;
- 3) For sources complying with subsection (b)(1)(D) ~~of this Section~~, comply with the following:
 - A) Maintain material use records showing that the source uses less than the amount of material ~~specified~~ in subsections (b)(1)(D)(i) and (b)(1)(D)(ii) during each calendar month, or, if the source exceeds the material use limitations, records showing that the

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source exceeded the limitations but ~~emitted less than~~~~did not emit~~ 6.8 kg/day (15 lbs/day) ~~or more~~ of VOM. On and after January 1, 2012, ~~these~~ records ~~must~~~~shall~~ include the name, identification number, and VOM content of each cleaning solvent and ink used per calendar month, the volume of each cleaning solvent used per calendar month for each sheetfed and nonheatset web letterpress printing operation, and the weight of each cleaning solvent and ink used per calendar month for each heatset web letterpress printing operation;

- B) Notify the Agency in writing if the source exceeds the material use limitations for six consecutive calendar months, or if the source changes its method of compliance from subsection (b)(1)(D) to subsection (b)(1)(B) ~~of this Section~~, within 30 days after the event occurs.

- c) Unless complying with subsections (b)(1)(D) and (b)(3) ~~of this Section~~, on and after August 1, 2010, an owner or operator of a letterpress printing line exempt from any of the limitations in Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) or (a)(2) ~~must~~~~shall~~ collect and record ~~either~~ the information ~~specified in either~~ subsection (c)(1) or (c)(2) ~~of this Section~~ for all letterpress printing lines at the source:

- 1) Standard recordkeeping, including ~~the following~~:
- A) The name and identification of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) A daily record that shows whether a letterpress printing line at the source was ~~operating in operation~~ on that day;
 - C) The VOM content and the volume of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month; and

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- E) The VOM emissions in lbs/day for the month, calculated in ~~compliance~~accordance with subsection (b)(1)(B) ~~of this Section~~;
- 2) Purchase and inventory recordkeeping, including ~~the following~~:
 - A) The name, identification, and VOM content of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) Inventory records from the beginning and end of each month indicating the total volume of each letterpress ink, and cleaning solvent to be used on any letterpress printing line at the source;
 - C) Monthly purchase records for each letterpress ink and cleaning solvent used on any letterpress printing line at the source;
 - D) A daily record that shows whether a letterpress printing line at the source was ~~operating in operation~~ on that day;
 - E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment factor) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained ~~under~~pursuant to subsections (c)(2)(A), (c)(2)(B), and (c)(2)(C) ~~of this Section~~; and
 - F) The VOM emissions in lbs/day for the month, calculated in ~~compliance~~accordance with subsection (b)(1)(B) ~~of this Section~~;
- d) An owner or operator of a heatset web letterpress printing lines subject to the control requirements of Section 218.413(a)(1)(B) or (b)(1) ~~must of this Subpart~~ ~~shall~~ comply with the following:
 - 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, and upon initial start-up of a new control device for a heatset web printing line, submit a certification to the Agency that includes ~~the following~~:

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- A) An identification of each heatset web letterpress printing line at the source;
 - B) A declaration that each heatset web letterpress printing line is in compliance with ~~the requirements of~~ Section 218.413(a)(1) or (b)~~-of this Subpart~~, as appropriate;
 - C) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1)~~-of this Subpart~~, and the date that ~~thesuch~~ device was first constructed at the subject source;
 - D) The control requirements in Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~ with which the letterpress printing line is complying;
 - E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.413(a)(1)(B) or (b)(1)~~-of this Subpart~~, as applicable; and
 - F) A declaration that the monitoring equipment required under Section 218.413(a)(1)(C) or (b)~~-of this Subpart~~, as applicable, has been properly installed and calibrated according to manufacturer's specifications;
- 2) If testing of the afterburner or other approved control device is conducted ~~underpursuant to~~ Section 218.415(b)~~-of this Subpart~~, the owner or operator ~~mustshall~~, within 90 days after conducting ~~thesuch~~ testing, submit a copy of all test results to the Agency and ~~shall submit~~ a certification to the Agency that includes ~~the following~~:
- A) A declaration that all tests and calculations necessary to demonstrate whether the letterpress printing lines is in compliance with Section 218.413(a)(1)(B) or (b)(1)~~-of this Subpart~~, as applicable, have been properly performed;
 - B) A statement whether the heatset web letterpress printing lines are or are not in compliance with Section 218.413(a)(1)(B) or (b)(1)~~-of this Subpart~~, as applicable; and

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- C) The operating parameters of the afterburner or other approved control device during testing, as monitored in ~~compliance~~ accordance with Section 218.416(a) or (b) ~~of this Subpart~~, as applicable;
- 3) Except ~~under as provided in~~ subsection (d)(3)(D) ~~of this Section~~, collect and record daily the following information for each heatset web letterpress printing line subject to ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~:
 - A) Afterburner or other approved control device monitoring data in ~~compliance~~ accordance with Section 218.416(a) or (b) ~~of this Subpart~~, as applicable;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) A log detailing checks on the air flow direction or air pressure of the dryer and press room to ensure compliance with ~~the requirements of~~ Section 218.413(a)(1)(A) ~~of this Subpart~~ at least once per calendar month while the line is operating;
- 4) Notify the Agency in writing of any violation of Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. ~~The~~ Such notification ~~must~~ shall include a copy of all records of ~~the~~ such violation;
- 5) If changing the method of compliance between Sections 218.413(a)(1)(B) and 218.413(b) ~~of this Subpart~~, certify compliance for the new method of compliance ~~under in accordance with~~ Section 218.413(b) at least 30 days before making ~~the~~ such change, and perform all tests and calculations necessary to demonstrate that ~~the~~ such printing lines will be in compliance with ~~the requirements of~~ Section 218.413(a)(1) ~~of this Subpart~~, or Section 218.413(b) ~~of this Subpart~~, as applicable.

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- e) For letterpress printing line cleaning operations, an owner or operator of a letterpress printing line subject to ~~the requirements of~~ Section 218.413 ~~must of this Subpart shall~~:
- 1) By August 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, certify to the Agency that all cleaning solutions, other than those excluded ~~underpursuant to~~ Section 218.412(b), and the handling of all cleaning materials will be in compliance with ~~the requirements of~~ Section 218.413(a)(2)(A) or (a)(2)(B) and (a)(3) ~~of this Subpart~~. ~~The Such~~ certification ~~must shall~~ include:
 - A) A statement that the cleaning solution will comply with the limitations in Section 218.413(a)(2);
 - B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - C) A sample of the records that will be kept ~~underpursuant to~~ subsection (e)(2) ~~of this Section~~; and
 - D) A description of the practices that ensure that VOM-containing cleaning materials are kept in closed containers;
 - 2) Collect and record the following information for each cleaning solution used on each letterpress printing line:
 - A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.413(a)(2)(A) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance accordance~~ with Section 218.415(c) ~~of this Subpart~~;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution

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- constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.413(a)(2)(A) ~~of this Subpart~~, and that is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~ ~~accordance~~ with Section 218.415(c) ~~of this Subpart~~;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if ~~these~~ ~~such~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance~~ ~~accordance~~ with methods ~~specified in Section 218.105(a) of this Part~~;

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- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.413(a)(2)(B) ~~of this Subpart~~:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in ~~compliance~~ with Section 218.415(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~the~~ such manufacturer's specifications are based on results of tests conducted in ~~compliance~~ with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in ~~compliance~~ with Section 218.415(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~the~~ such manufacturer's specifications are based on results of tests conducted in ~~compliance~~ with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any;

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- E) The amount of cleaning materials used on letterpress printing lines at the source that do not comply with the cleaning material limitations ~~set forth in Section 218.413(a)(2) of this Subpart;~~
- 3) Notify the Agency in writing of any violation of Section 218.413 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. ~~The~~ Such notification ~~must~~ include a copy of all records of ~~the~~ such violation.
- f) The owner or operator ~~must~~ maintain all records required by this Section at the source for ~~at least a minimum period of~~ three years and ~~must~~ make all records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

Section 218.421 General Requirements

The owner or operator of a plant which processes more than ~~3,660,366~~ 4,033,403 Mg/vrmg/yr (~~3,660,366~~ 4,033,403 tons/year) gaseous and light liquid VOM, and whose components are used to manufacture the synthetic organic chemicals or polymers listed in Appendix A, ~~must~~ comply with this Subpart. ~~This~~ The provisions of this Subpart ~~apply~~ are applicable to components containing at least 10% ~~10 percent or more~~ by weight VOM as determined by ASTM ~~method~~ method E168-16 (2023) ~~E-168, E169-16 (2022), E-169 and E260-96 (2019)~~ E-260, incorporated by reference in Section 218.112 ~~of this Part~~. Those components that are not process unit components are exempt from this Subpart. A component ~~is~~ shall be considered ~~to be~~ leaking if the VOM is ~~at least equal to, or is greater than~~ 10,000 ppmv as methane or hexane as determined by USEPA Reference Method 21, ~~as specified at 40 CFR 60, Appendix 60, Appendix~~ A, incorporated by reference in Section 218.112 ~~of this Part~~, ~~there is an~~ indication of liquids dripping, or ~~indication by~~ a sensor ~~indicates~~ that a seal or barrier fluid system has failed. ~~This~~ The provisions of this Subpart ~~do~~ are not ~~apply~~ applicable if the equipment components are used to produce heavy liquid chemicals only from heavy liquid feed or raw materials.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.422 Inspection Program Plan for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 218.421 ~~must of this Part~~ shall prepare an inspection program plan which contains, at a minimum:

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- a) An identification of all components and the period in which each will be monitored ~~underpursuant to~~ Section 218.423~~; of this Part.~~
- b) The format for the monitoring log required by Section 218.425~~; of this Part.~~
- c) A description of the monitoring equipment to be used when complying with Section 218.423 ~~of this Part~~; and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, all leaking components, and components exempted under Section 218.423(j) ~~so of this Part such~~ that they are obvious and can be located by both plant personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.423 Inspection Program for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to this Subpart ~~must~~shall, ~~to detect for the purposes of detecting~~ leaks, conduct a component inspection program using the test methods ~~specified in Method 21, 40 CFR 60. Appendix A-760, Appendix A (1986), incorporated by reference in Section 218.112 of this Part,~~ consistent with the following provisions:

- a) Test annually ~~the~~those components operated near extreme temperature or pressure ~~which such that they would be unsafe to routinely monitor and the~~those components which would require ~~elevating the elevation of~~ monitoring personnel higher than two meters above permanent worker access structures or surfaces.
- b) Test quarterly all other pressure relief valves in gas service, pumps in light liquid service, valves in light liquid service and in gas service, and compressors.
- c) If ~~2% less than or equal to 2 percent or fewer~~ of the valves in light liquid service and in gas service tested ~~underpursuant to subsection (b) of this Section~~ are found to leak for five consecutive quarters, no leak tests ~~is~~shall be required for ~~the next~~ three consecutive quarters, ~~after which. Thereafter,~~ leak tests ~~must~~shall resume for the next quarter. If that test shows ~~2% less than or equal to 2 percent or fewer~~ of the valves in light liquid service and in gas service are leaking, then no tests are

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required for the next three quarters. If more than ~~2%2 percent~~ are leaking, then tests are required for the next five quarters.

- d) Observe visually all pump seals weekly.
- e) Test immediately any pump seal from which liquids are observed dripping.
- f) Test any relief valve within 24 hours after it has vented to the atmosphere.
- g) Routine instrument monitoring of flanges, valves which are not externally regulated, ~~flanges~~, and equipment in heavy liquid service, is not required. However, any flange, valve which is not externally regulated, ~~flange~~ or piece of equipment in heavy liquid service that is found to be leaking on the basis of sight, smell, or sound ~~must~~ shall be repaired as soon as practicable but ~~within no later than~~ 30 days after the leak is found.
- h) Test immediately after repair any component that was found leaking.
- i) Within one hour of ~~detecting a leak its detection~~, a weatherproof, readily visible tag, in bright colors such as red or yellow, ~~and~~ bearing an identification number and the date on which the leak was detected, must be affixed on the leaking component and remain in place until the leaking component is repaired.
- j) The following components are exempt from the monitoring requirements in this Section:
 - 1) Any component ~~that is~~ in vacuum service; and
 - 2) Any pressure relief valve ~~that is~~ connected to an operating flare header or vapor recovery device.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.424 Repairing Leaks

All leaking components must be repaired and retested as soon as practicable but ~~within no later than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the process unit is shut down. Records of repairing and retesting must be maintained in ~~compliance accordance~~ with ~~Sections~~Section 218.425 and 218.426 ~~of this Part~~.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.425 Recordkeeping for Leaks

- a) The owner or operator of a synthetic organic chemical or polymer manufacturing plant ~~must~~shall maintain a leaking components monitoring log which ~~must~~shall contain, at a minimum, ~~the following information:~~
- 1) The name of the process unit where the component is located;
 - 2) The type of component (e.g., valve, seal);
 - 3) The identification number of the component;
 - 4) The date on which a leaking component is discovered;
 - 5) The date on which a leaking component is repaired;
 - 6) The date and instrument reading of the recheck procedure after a leaking component is repaired;
 - 7) A record of the calibration of the monitoring instrument;
 - 8) The identification number of leaking components which cannot be repaired until process unit shutdown; and
 - 9) The total number of valves in light liquid service and in gas service inspected; and the total number and ~~the~~ percentage of these valves found leaking during the monitoring period.
- b) Copies of the monitoring log ~~must~~shall be retained by the owner or operator for at least a minimum of two years after the date on which the record was made or the report was prepared.
- c) Copies of the monitoring log ~~must~~shall be made available to the Agency, upon verbal or written request, ~~before~~prior to or at the time of inspection ~~under~~pursuant to Section 4(d) of the Environmental Protection Act [415 ILCS 5/4(d)] ~~(Act)~~ (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1001 et seq.) [415 ILCS 5/1 et seq.] at any reasonable time.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.426 Report for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 218.421 through 218.430 ~~must of this Part shall:~~

- a) Submit quarterly reports to the Agency ~~by on or before~~ March 31, June 30, September 30, and December 31 of each year, listing:
 - 1) ~~All~~ all leaking components identified ~~underpursuant to~~ Section 218.423 ~~of this Part~~ but not repaired within 15 days;—
 - 2) ~~All~~ all leaking components awaiting process unit shutdown;—
 - 3) ~~The~~ the total number of components inspected;—
 - 4) ~~The~~ the type of components inspected;—~~and~~
 - 5) ~~The~~ the total number of components found leaking;—
 - 6) ~~The~~ the total number of valves in light liquid service and in gas service inspected; and
 - 7) ~~The~~ the number and percentage of valves in light liquid service and in gas service found leaking.
- b) Submit a signed statement with the report attesting that all monitoring and repairs were performed as required under Section 218.421 through 218.427 ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.427 Alternative Program for Leaks

The Agency ~~may shall~~ approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in this Subpart ~~if an owner or operator of a plant demonstrates upon a demonstration by the owner or operator of such plant~~ that the alternative program will provide source personnel and Agency personnel with an equivalent ability to identify and repair leaking components. Any alternative program can be allowed if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.428 Open-Ended Valves

- a) Each open-ended valve ~~must~~shall be equipped with a cap, blind flange, plug, or a second valve, except during operations requiring fluid flow through the open-ended valve.
- b) Each open-ended valve equipped with a second valve ~~must~~shall be operated ~~so in a manner such~~ that the valve on the process fluid end is closed before the second valve is closed.
- c) Components which are open-ended valves and which serve as a sampling connection ~~must~~shall be controlled ~~so such~~ that they comply with subsection (c)(1), (c)(2), or (c)(3) ~~below~~. This requirement does not apply to in-situ sampling systems.
 - 1) A closed purge system or closed vent system ~~must~~shall return purged process fluid to the process line with no detectable VOM emissions to the atmosphere; ~~or~~
 - 2) A closed purge system or closed vent system ~~must~~shall collect and recycle purged process fluid to the process line with no detectable VOM emissions to the atmosphere; ~~or~~
 - 3) Purged process fluid ~~must~~shall be transported to a control device that complies with ~~the requirements of~~ Section 218.429 ~~of this Part~~. If a container is used to transport purged process fluid to the control device, the container ~~must~~shall be a closed container designed and used to reduce the VOM emissions vented from purged process fluid after transfer to no detectable VOM emissions as determined by USEPA Reference Method 21, ~~as specified in~~ 40 CFR ~~60, Appendix A-7, 60, Appendix A (1990 or 1991)~~ incorporated by reference in Section 218.112 ~~of this Part~~. For ~~purposes of~~ this Section, the phrase "after transfer" ~~refers~~shall refer to the time at which the entire amount of purged process fluid resulting from a flushing or cleaning of the sample line enters the container; ~~provided,~~ however, that purged process fluid may be transferred from the initial container to another closed container ~~before~~prior to disposal, e.g., to a bulk waste storage container.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.429 Standards for Control Devices

Control devices used to comply with Section 218.428(c) ~~must of this Part shall~~ comply with the following:

- a) If the control device is a vapor recovery system (for example, condensers and adsorbers), it ~~must shall~~ be designed and operated to recover the VOM emissions vented to it with ~~at least a 95%an efficiency of 95 percent or greater.~~
- b) If the control device is an enclosed combustion device, it ~~must shall~~ be designed and operated to reduce the VOM emissions vented to it with ~~at least a 95%an efficiency of 95 percent or greater,~~ or to provide a minimum residence time of 0.75 seconds at a minimum temperature of ~~816 °C816 °C.~~
- c) If the control device is a flare, it ~~must shall~~:
 - 1) Be designed for and operated with no visible emissions as determined by USEPA Reference Method 22, 40 CFR ~~60.Appendix A-760, Appendix A- (1986),~~ incorporated by reference in Section 218.112, except for periods ~~up to not to exceed~~ a total of ~~five5~~ minutes during any ~~two2~~ consecutive hours.
 - 2) Be operated with a pilot flame present at all times and ~~shall be~~ monitored with a thermocouple or any other equivalent device to detect the presence of the pilot flame.
 - 3) Be steam-assisted, air assisted, or nonassisted.
 - 4) Be used only with the net heating value of the gas being combusted ~~at being~~ 11.2 MJ/scm (300 ~~btu/scfBtu/scf~~) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted ~~at being~~ 7.45 MJ/scm or greater if the flare is nonassisted. The net heating value of the gas being combusted ~~must shall~~ be calculated using the following equation:

$$H_r = K \sum_{i=1}^n C_i H_i$$

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Where:

H_r = Net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 ~~mmHg~~ mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;

Commented [SKA94]: unstrike

K = Constant, 1.740×10^{-7} (1/ppm) (g-mole/scm) (MJ/Kcal)

where

standard temperature for (g-mole/scm) is 20 °C;

C_i = Concentration of sample component i, in ppm, as measured by USEPA Reference Method 18, 40 CFR 60. Appendix A-660, Appendix A (1986), and ASTM D-2504-83, both incorporated by reference in Section 218.112;

H_i = Net heat of combustion of sample component i, kcal/g mole. The heats of combustion may be determined using ASTM D-4809-18 ~~2382-83~~, incorporated by reference in Section 218.112 ~~of this Part~~, if published values are not available or cannot be calculated.

- 5) Steam-assisted and nonassisted flares ~~must~~ shall be designed and operated with an exit velocity, ~~as~~ determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by USEPA

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Reference Method 2 or 2A, 40 CFR ~~60. Appendix A-1, 60. Appendix A-1 (1986)~~ incorporated by reference in Section 218.112 ~~of this Part~~, as appropriate, by the unobstructed (free) cross sectional area of the flare tip, ~~that is~~ less than 18 m/sec (60 ft/sec).

- 6) Air-assisted flares ~~must~~shall be designed and operated with an exit velocity less than the maximum permitted velocity, $V_{\max}$, as determined by the following equation:

$$V_{\max} = 8.706 + 0.7084 (H_r);$$

$V_{\max}$ = Maximum permitted velocity, m/sec;

8.706 = Constant;

0.7084 = Constant;

H_r = The net heating value as determined in subsection (c) (4) ~~of this Section~~.

- d) The ~~owner or operator must maintain the~~ following information pertaining to closed vent systems and control devices subject to Section 218.429 ~~shall be maintained by the owner or operator~~. These records ~~must~~shall be updated as necessary to describe current operation and equipment. The records ~~must~~shall be retained at a readily accessible location at the source for ~~at least a minimum of~~ two years after the control device is permanently ~~shut down~~shutdown.
- 1) Detailed schematics, design specifications, and piping and instrumentation diagrams;
 - 2) The dates and description of any changes in design specifications;
 - 3) A description of the parameter or parameters monitored and recorded as required in subsection (f)(1) to ensure that the control devices are operated and maintained in conformance with their design, and an explanation why that parameter (or parameters) was selected for monitoring.
- e) The control device ~~must~~shall be operated at all times when emissions may be vented to it.

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- f) Owners and operators of control devices used to comply with this Subpart ~~must~~ monitor each control device to ensure that the control device is operated and maintained in conformance with its designs at all times that emissions may be vented to it. This monitoring ~~must~~ be conducted in ~~compliance~~ accordance with Section 218.429(d)(3). The records prepared as part of this monitoring activity ~~must~~ include the dates of startup and shutdown of control devices and identify periods when the devices are not operated as designed, including periods when a flare pilot light does not have a flame.
- g) ~~Subsections The requirements of subsections~~ (d), (e), and (f) ~~do~~ not apply to a combustion device located at the source used ~~to dispose~~ for disposal of purged process fluid which is subject to the Burning of Hazardous Waste in Boilers and Industrials Furnaces (BIF) rules, 40 CFR ~~Parts~~ 260, 261, 264, 265, 266, and 270, or which is subject to the Resource Conservation and Recovery Act (RCRA) rules, 35 Ill. Adm. Code ~~Parts~~ 703, 720, 721, 724, 725, and 726. The owner or operator of ~~these~~ combustion device ~~must~~ satisfy applicable provisions of the RCRA or BIF rules.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.431 Applicability

- a) ~~The provisions of~~ Sections 218.431 through 218.436 ~~of this Subpart shall~~ apply to:
- 1) Every owner or operator of any chemical manufacturing process unit that manufactures; as a primary product; ~~at least one or more~~ of the chemicals listed in Appendix A, ~~of this Part~~ and that chemical manufacturing process unit causes or allows any reactor or distillation unit, either individually or in tandem, to discharge ~~at least one or more~~ process vent ~~stream~~ streams either directly to the atmosphere or to a recovery system; and
 - 2) All continuous distillation and reactor process emission units not subject to Section 218.520 through 218.527 ~~of this Part~~, and located within Stepan Company's Millsdale manufacturing facility, Elwood, ~~Illinois~~.
- b) ~~Despite~~ Notwithstanding subsection (a) ~~of this Section~~, the control requirements ~~of set forth within~~ Section 218.432 ~~do of this Subpart shall~~ not apply to the following:

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- 1) Any process vent stream with a total resource effectiveness (TRE) index value greater than 1.0. However, ~~thesuch~~ process vent stream remains subject to the performance testing requirements ~~contained in Section 218.433 of this Subpart and the reporting and recordkeeping requirements contained in Section 218.435 of this Subpart;~~
- 2) Any reactor or distillation unit that is designed and operated as a batch operation;
- 3) Any reactor or distillation unit that is part of a polymer manufacturing operation;
- 4) Any reactor or distillation unit that is part of the chemical manufacturing process unit with a total design capacity of less than 1 gigagram (1,100 tons) per year for all chemicals produced; as a primary product; within that process unit. However, ~~thesuch~~ operations remain subject to the reporting and recordkeeping requirements ~~contained in Section 218.435(d) of this Subpart;~~
- 5) Any vent stream with a flow rate less than 0.0085 scm/min or a total VOM concentration of less than 500 ppmv, ~~excluding less~~ methane and ethane, as measured by Method 18, or a concentration of VOM of less than 250 ppmv as measured by Method 25A. However, ~~thesuch~~ operations remain subject to the performance testing requirement ~~listed in Section 218.433 and of this Subpart, as well as~~ the reporting and recordkeeping requirements ~~contained in Section 218.435 of this Subpart;~~ or
- 6) Any reactor or distillation unit included within an Early Reduction Program, as specified in 40 CFR 63, and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.432 Control Requirements

- a) Every owner or operator of a source subject to ~~the requirements of~~ this Subpart, as determined by Section 218.431 ~~of this Subpart,~~ must/shall either:

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- 1) Reduce emissions of VOM, ~~excluding less~~ methane or ethane, by ~~98% by weight~~ 98 weight percent, or to 20 ppmv, on a dry basis, corrected to ~~3% oxygen~~ 3% oxygen, whichever is less stringent;
 - 2) If a boiler or process heater is used to comply with this Subpart, the vent stream ~~must~~ shall be introduced into the flame zone of the boiler or process heater; or
 - 3) If a flare is used to comply with this Subpart, it ~~must~~ shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~. The flare operation requirements of 40 CFR 60.18 do not apply if a process, not subject to this Subpart, vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with at least one ~~or more~~ of the provisions of 40 CFR 60.18.
- b) ~~Despite~~ Notwithstanding subsection (a) or (c) ~~of this Section~~, and subject to subsection (b)(2) ~~of this Section~~:
- 1) ~~An~~ No owner or operator of a source subject to Section 218.432 ~~must not~~ of this Subpart shall cause or allow VOM to be emitted through an existing control device unless the control device is operated to achieve:
 - A) ~~90%90 percent~~ control of the VOM emissions vented to it; or
 - B) VOM emissions concentration of less than 50 ppmv, on a dry basis.
 - 2) Any existing control device subject to subsection (a) ~~of this Section~~ is required to meet the ~~98%98 percent~~ emissions limit ~~set forth in~~ subsection (a)(1) upon ~~the earlier to occur of~~ the date the control device is replaced for any reason, including, ~~but not limited to~~, normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A control device is considered ~~to be~~ replaced when:
 - A) ~~The entire~~ All of the device is replaced; or
 - B) When the cost to repair the device or ~~the cost to~~ replace part of the device exceeds ~~50%50 percent~~ of the cost ~~to replace~~ of replacing

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the entire device with a device that complies with the 98% emissions limitation in subsection (a)(1) ~~of this Section.~~

- c) For each individual vent stream within a chemical manufacturing process unit with a TRE index value greater than 1.0, the owner or operator ~~must~~ shall maintain process vent stream parameters that retain a calculated TRE index value greater than 1.0 ~~throughby means of~~ recovery. Any recovery device ~~must~~ shall have as its primary purpose the capture of chemicals for use, reuse, or sale. The TRE index value ~~must~~ shall be calculated at the outlet of the final recovery device.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.433 Performance and Testing Requirements

- a) ~~To demonstrate~~ For the purpose of demonstrating compliance with the TRE index value in Section 218.432(c) ~~of this Subpart,~~ an engineering assessment ~~must~~ shall be made to determine process vent stream flow rate, net heating value, and VOM emission rate for the representative operating conditions expected to yield the lowest TRE index value. The source ~~must~~ shall also calculate the TRE index values ~~underpursuant to~~ the equations ~~in~~ contained within Appendix G (b)(1) ~~of this Part.~~
- 1) If the TRE index value calculated using ~~the~~ such engineering assessment and the TRE equation in Appendix G (b)(1) ~~of this Part~~ is greater than 4.0, then the owner or operator is exempt from performing the measurements ~~specified in Appendix G (a) of this Part.~~
 - 2) If the TRE index value calculated using ~~the~~ such engineering assessment and the TRE equation in Appendix G (b)(1) ~~of this Part~~ is less than or equal to 4.0, then the owner or operator ~~must~~ shall perform the measurements ~~specified in Appendix G (a) of this Part.~~ An owner or operator of a source may, in the alternative, elect to comply with the control requirements ~~specified in Section 218.432 of this Subpart~~ rather than performing the measurements in Appendix G (a) ~~of this Part.~~
 - 3) An engineering assessment ~~must~~ shall include, ~~but is not limited to, the following:~~

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- A) Previous test results, ~~if provided~~ the tests are representative of current operating practices at the chemical manufacturing process unit;
 - B) Bench-scale or pilot-scale test data of the process under representative operating conditions;
 - C) Maximum flow rate, as stated within a permit limit, applicable to the process vent;
 - D) Design analysis based on accepted chemical engineering principles, measurable process parameters, or physical or chemical laws or properties. Examples of analytical methods include, ~~but are not limited to, the following:~~
 - i) Use of material balances based on process stoichiometry to estimate maximum VOM concentrations;
 - ii) Estimation of maximum flow rate based on physical equipment design, such as pump or blower capacities;
 - iii) Estimation of VOM concentrations based on saturation conditions; and
 - iv) Estimation of maximum expected net heating value based on the stream concentration of each organic compound, or, alternatively, as if all VOM in the stream were the compound with the highest heating value.
 - E) All data, assumptions, and procedures used in the engineering assessment ~~must~~shall be documented.
- b) ~~To demonstrate~~For the purpose of demonstrating compliance with the control requirements in Section 218.432 ~~of this Subpart~~, the chemical manufacturing process unit ~~must~~shall be run at representative operating conditions and flow rates during any performance test.
- c) The following methods in 40 CFR 60, incorporated by reference at Section 218.112 ~~of this Part~~, ~~must~~shall be used to demonstrate compliance with the reduction efficiency requirement ~~listed~~ in Section 218.432(a)(1) ~~of this Subpart~~.

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- 1) Method 1 or 1A, incorporated by reference at Section 218.112 ~~of this Part~~, as appropriate, ~~to select for selection of the~~ sampling sites. The control device inlet sampling site ~~to determine for determination of~~ vent stream molar composition or VOM content, ~~excluding less~~ methane and ethane, reduction efficiency ~~must shall~~ be located after the last recovery device but ~~before prior to~~ the inlet of the control device, ~~before prior to~~ any dilution of the process vent stream, and ~~before prior to~~ release to the atmosphere.
- 2) Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112 ~~of this Part~~, as appropriate, ~~to determine for determination of~~ gas stream volumetric flow rate.
- 3) The emission rate correction factor, integrated sampling, and analysis procedure of Method 3, incorporated by reference at Section 218.112 ~~of this Part~~, ~~must shall~~ be used to determine the oxygen concentration (% ~~O_{2d}~~) ~~to determine for the purpose of determining~~ compliance with the 20 ppmv limitation. The sampling site ~~to determine for determining~~ compliance with the 20 ppmv limitation ~~must shall~~ be the same site used for the VOM samples, and samples ~~must shall~~ be taken at the same time that the VOM samples are taken. The VOM concentration corrected to ~~3%3 percent~~ oxygen (C_c) ~~must shall~~ be computed using the following formula:

$$C_c = C_{VOM} \times \frac{17.9}{20.9 - \%O_{2d}}$$

where:

C _c =	Concentration of VOM (~~excluding minus~~ methane and ethane) corrected to ~~3%3 percent~~ O ₂ , dry basis, ppmv.
C _{vom} =	Concentration of VOM (~~excluding minus~~ methane and ethane), dry basis, ppmv.
%O _{2d} =	Concentration of oxygen, dry basis, percent by volume.

- 4) Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, to determine the concentration of VOM, ~~excluding less~~ methane and ethane, at the outlet of the control device when determining compliance with the

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20 ppmv limitation in Section 218.432(a)(1) ~~of this Subpart~~, or at both the control device inlet and outlet when the reduction efficiency of the control device is to be determined.

- A) The minimum sampling time for each run ~~must~~ be 1 hour in which either an integrated sample or four grab samples ~~must~~ be taken. If grab sampling is used, then the samples ~~must~~ be taken at 15-minute intervals.
- B) The emission reduction (R) of VOM, ~~excluding~~ methane and ethane, ~~must~~ be determined using the following formula:

$$R = \frac{(E_i - E_o)}{E_i} \times 100$$

where:

R = Emission reduction, percent by weight.

E_i = Mass rate of VOM (~~excluding~~ methane and ethane) entering the control device, kg VOM/hr.

E_o = Mass rate of VOM, ~~excluding~~ methane and ethane discharged to the atmosphere, kg VOM/hr.

- C) The mass rates of VOM (E_i, E_o) ~~must~~ be computed using the following formula:

$$E_i = K_2 \left(\sum_{j=1}^n C_{ij} M_{ij} \right) Q_i$$

$$E_o = K_2 \left(\sum_{j=1}^n C_{oj} M_{oj} \right) Q_o$$

where:

C_{ij}, C_{oj} = Concentration of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, dry basis, ppmv.

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Commented [BW99]: Same here

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M_{ij}, M_{oj} = Molecular weight of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, grams per gram-mole.

Q_i, Q_o = Flow rate of gas stream at the inlet and outlet of the control device, respectively, dry scm/min.

K_2 = 2.494×10^{-6} (liters per minute) (gram-mole per scm) (kg/g) (min/hr), where standard temperature for (gram-mole per scm) is 20 °C ~~20°C~~.

- D) The representative VOM concentration (C_{vom}) is the sum of each of the individual components of VOM (C_j) and ~~must~~shall be computed for each run using the following:

$$C_{vom} = \sum_{j=1}^n C_j$$

Commented [SKA102]: This should be in an equation

where:

Commented [BW103]: Remove return here

C_{vom} = Concentration of VOM (~~excluding~~minus methane and ethane), dry basis, ppmv.

C_j = Concentration of sample component "j", dry basis, ppmv.

n = Number of components in the sample.

Commented [BW104]: See above comment

- 5) When a boiler or process heater with a design heat input capacity of at least 44 MW~~megawatts or greater~~, or a boiler or process heater into which the process vent stream is introduced with the primary fuel, is used to comply with the control requirements, an initial performance test is not required.

- d) When a flare is used to comply with the control requirements of this rule, the flare ~~must~~shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.434 Monitoring Requirements

- a) The owner or operator of a source subject to the control requirements in Section 218.432 ~~of this Subpart~~ that uses an incinerator to comply with the VOM emission limitation ~~specified in Section 218.432-(a)-(1)~~ must~~shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and ~~with having~~ an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature measured expressed in ~~degrees~~ Celsius, or $\pm 0.5^{\circ}\text{C} \pm 0.5^{\circ}\text{F}$, whichever is greater.
- 1) ~~If~~Where an incinerator other than a catalytic incinerator is used, a temperature monitoring device must~~shall~~ be installed in the firebox.
- 2) ~~If~~Where a catalytic incinerator is used, temperature monitoring devices must~~shall~~ be installed in the gas stream immediately before and after the catalyst bed.
- b) The owner or operator of a source that uses a flare to comply with Section 218.432 (a) (2) ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a heat-sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a flame.
- c) The owner or operator of a source that uses a boiler or process heater with a design heat input capacity less than 44 ~~MW megawatts~~ to comply with Section 218.432(a) (1) ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, a temperature monitoring device in the firebox. The monitoring device must~~shall~~ be equipped with a continuous recorder with an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being measured expressed in degrees Celsius or $\pm 0.5^{\circ}\text{C} \pm 0.5^{\circ}\text{F}$, whichever is greater. Any boiler or process heater in which all vent streams are introduced with primary fuel is exempt from this requirement.
- d) The owner or operator of a process vent with a TRE index value of 4.0 or less that uses at least one ~~or more~~ product recovery ~~device~~devices must~~shall~~ install either an organic monitoring device equipped with a continuous recorder or the monitoring equipment specified in subsections (d)(1), (d)(2), (d)(3), or (d)(4) ~~of this Section~~, depending on the type of recovery device used. All monitoring

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equipment ~~must~~shall be installed, calibrated, and maintained according to the manufacturer's specifications.

- 1) ~~If~~Where an absorber is the final recovery device in the recovery system, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each equipped with a continuous recorder, ~~must~~shall be used.
 - 2) ~~If~~Where a condenser is the final recovery device in the recovery system, a condenser exit (product side) temperature monitoring device equipped with a continuous recorder and ~~with having~~ an accuracy of ~~$\pm 1\%$~~ ± 1 percent of the temperature being monitored expressed in degrees Celsius or ~~$\pm 0.5^{\circ}\text{C}$~~ $\pm 0.5^{\circ}\text{C}$, whichever is greater.
 - 3) ~~If~~Where a carbon adsorber is the final recovery device in the recovery system, an integrating regeneration steam flow monitoring device ~~with having~~ an accuracy of ~~$\pm 10\%$~~ ± 10 percent, capable of recording the total regeneration steam mass flow for each regeneration cycle; and a carbon bed temperature monitoring device ~~with having~~ an accuracy of ~~$\pm 1\%$~~ ± 1 percent of the temperature being monitored expressed in degrees Celsius of ~~$\pm 0.5^{\circ}\text{C}$~~ $\pm 0.5^{\circ}\text{C}$, capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle.
 - 4) ~~If~~Where a scrubber is used with an incinerator, boiler, or, in the case of halogenated vent streams, a process heater, the following monitoring equipment is required for the scrubber:
 - A) A pH monitoring device equipped with a continuous recorder to monitor the pH of the scrubber effluent; and
 - B) Flow meters equipped with a continuous recorder at the scrubber influent for liquid flow and the scrubber inlet for gas stream flow.
- e) The owner or operator of a process vent using a vent system that contains bypass lines capable of diverting a vent stream away from the control device associated with a process vent ~~must~~shall comply with either subsection (e)(1) or (e)(2) of this Section. Equipment needed for safety purposes, including, ~~but not limited to,~~ pressure relief devices, ~~is~~are not subject to this subsection.

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- 1) The owner or operator ~~must~~ install, calibrate, maintain, and operate a flow indicator that provides a record of vent stream flow at least once every 15 minutes. The flow indicator ~~must~~ be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.
- 2) The owner or operator ~~must~~ secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism ~~must~~ be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
- f) The owner or operator of a process vent may monitor by an equivalent alternative means or parameters other than those ~~listed in subsections (a) through (d) of this Section.~~ Any equivalent alternative ~~must~~ be approved by the Agency and USEPA, and ~~contained in the source's operating permit as federally enforceable permit conditions.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.435 Recordkeeping and Reporting Requirements

- a) Every owner or operator of a reactor or distillation unit with a TRE index value of 4.0 or less ~~must~~ keep ~~for at least three years~~ records; ~~for a minimum of 2 years,~~ of the following parameters measured during a performance test or TRE determination required under Section 218.433 ~~of this Subpart,~~ and required to be monitored under Section 218.434 ~~of this Subpart.~~
 - 1) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a) (1) ~~by using of this Subpart through the use of~~ either a thermal or catalytic incinerator ~~must~~ maintain records of the following:
 - A) The average firebox temperature of the incinerator (or the average temperature upstream and downstream of the catalyst bed for a catalytic incinerator), measured at least every 15 minutes and averaged over the same time period of the performance testing; and
 - B) The percent reduction of VOM determined ~~under as specified in~~ Section 218.433(c) ~~of this Subpart~~ achieved by the incinerator, or

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the concentration of VOM (ppmv, by compound) determined ~~under as specified in~~ Section 218.433(c) ~~of this Subpart~~ at the outlet of the control device, on a dry basis, corrected to ~~3%3 percent~~ oxygen.

- 2) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(1) ~~by using of this Subpart through the use of~~ a boiler or process heater ~~must~~ shall maintain the records ~~in subsections (a)(2)(A) and (a)(2)(B) described below~~. Any boiler or process heater in which all vent streams are introduced with primary fuel are exempt from these requirements.
 - A) A description of the location at which the vent stream is introduced into the boiler or process heater; and
 - B) The average combustion temperature of the boiler or process heater with a design heat input capacity of less than 44 ~~MWmegawatt~~ measured at least every 15 minutes and averaged over the same time period of the performance testing.
- 3) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(2) ~~by using of this Subpart through use of~~ a smokeless flare, or flare design (i.e., steam-assisted, air-assisted, or nonassisted) ~~must~~ shall maintain records of all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the performance test; continuous records of the flare pilot flame monitoring; and records of all periods of operations during which the pilot flame is absent.
- 4) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(b) ~~must of this Subpart shall~~ maintain records of the following:
 - A) ~~If~~Where an absorber is the final recovery device in the recovery system, the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid saturation, if approved by the Agency and USEPA), and average exit temperature of the absorbing liquid measured at least every 15 minutes and averaged over the same time period as the performance testing (both

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measured while the vent stream is normally routed and constituted);

- B) ~~If~~Where a condenser is the final recovery device in the recovery system, the average exit (product side) temperature measured at least every 15 minutes and averaged over the same time period as the performance testing while the vent stream is normally routed and constituted;
 - C) ~~If~~Where a carbon absorber is the final recovery device in the recovery system, the total steam mass or volumetric flow measured at least every 15 minutes and averaged over the same time period as the performance testing (full carbon bed cycle), the temperature of the carbon bed after regeneration (and within 15 minutes of ~~completing~~completion of any cooling ~~cycle or cycles~~cycle(s)), and duration of the carbon bed steaming cycle (all measured while the vent stream is normally routed and constituted);
 - D) As an alternative to subsection (a)(4)(A), (a)(4)(B), or (a)(4)(C) ~~of this Section~~, the concentration level or reading indicated by the organic monitoring device at the outlet of the absorber, condenser, or carbon absorber, measured at least every 15 minutes and averaged over the same time period as the performance testing (measured while the vent stream is normally routed and constituted); or
 - E) All measurements and calculations performed to determine the flow rate, VOM concentration, heating value, and TRE index value of the vent stream.
- b) Every owner or operator of a reactor or distillation unit with a TRE index value of less than 4.0 ~~is~~shall be subject to the ~~exceedance~~exceedence reporting requirements of the draft Enhanced Monitoring Guidelines as published at 58 Fed. Reg. 54648 (October 22, 1993).
 - c) Every owner or operator of a source seeking to comply with Section 218.432(b) ~~must of this Subpart shall~~ maintain records of the following:

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- 1) Any changes in production capacity, feedstock type, ~~or catalyst type;~~ or of any replacement, removal, or addition of recovery equipment or reactors and distillation units; and
- 2) Any recalculation of the flow rate, VOM concentration, or TRE index value calculated ~~under~~~~according to~~ subsection (c) of Appendix G ~~of this Part.~~
- d) Every owner or operator of a source claiming a design capacity of less than 1 gigagram (1,100 tons) per year ~~under, as contained in~~ Section 218.431(b) ~~must of this Subpart, shall~~ maintain records of the design capacity or any changes in equipment or operations that may affect the design capacity.
- e) Every owner or operator of a source claiming a vent stream flow rate or vent stream concentration exemption level ~~under, as contained in~~ Section 218.431(b)(5) ~~must of this Subpart, shall~~ maintain records to indicate that the stream flow rate is less than 0.0085 scm/min or the vent stream concentration is less than 500 ppmv.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.436 Compliance Date

Every owner or operator of ~~an~~ source subject to Sections 218.431, 218.432, 218.433, 218.434, or 218.435 ~~must of this Subpart shall~~ comply with its standards, limitations, and mandates by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section 218.441 Petroleum Refinery Waste Gas Disposal

- a) Except ~~under as provided in~~ subsection (b) or (c) ~~of this Section, a~~ person ~~must not shall~~ cause or allow the discharge of organic materials ~~exceeding in excess of~~ 100 ppm equivalent methane (molecular weight 16.0) into the atmosphere from:
 - 1) Any catalyst regenerator of a petroleum cracking system; ~~or~~

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- 2) Any petroleum fluid coker; or
 - 3) Any other waste gas stream from any petroleum or petrochemical manufacturing process.
- b) Exception. Existing sources subject to subsection (a)(3) ~~of this Section may;~~ alternatively, at their election, comply with the organic material emission limitations ~~under Section imposed by 35 Ill. Adm. Cod 218.301 or 218.302.;~~ ~~provided, however, that~~ However, there ~~must~~ shall be no increase in emissions from ~~thesuch~~ sources above the level of emissions ~~in existence~~ on May 3, 1979.
- c) New Sources. Sources subject to subsection (a)(3) ~~of this Section~~, construction of which commenced on or after January 1, 1977, may, at their election, comply with the following emission limitations:
- 1) A maximum of ~~8 lbs/hreight pounds per hour~~ of organic material; or
 - 2) Emission of organic material ~~exceeding in excess of~~ the limitation of subsection (c)(1) ~~of this Section~~ is allowable if ~~thesuch~~ emissions are controlled by air pollution control methods or equipment approved by the Agency ~~that are~~ capable of reducing by ~~at least 85%85 percent or more~~ the uncontrolled organic material that would otherwise be emitted to the atmosphere. ~~TheSuch~~ methods or equipment must be approved by the Agency and ~~approved by the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.442 Vacuum Producing Systems

~~An~~No owner or operator of a petroleum refinery ~~must not~~ shall cause or allow the operation of any vacuum producing system unless the condensers, hot wells, and accumulators of ~~theany such~~ system are equipped with vapor loss control equipment, including, ~~but not limited to,~~ piping, valves, flame arrestors, and hot wellcovers, to vent any VOM with a vapor pressure of ~~at least~~ 10.34 kPa (1.5 psia) ~~or greater at 294.3 °K (70 °F)294.3°K-(70°F)~~ to a heater, fire box, flare, refinery fuel gas system, or other equipment or system of equal emission control as approved by the Agency and ~~approved by the~~ USEPA as a SIP revision. This Section ~~does~~ shall not apply to vacuum producing systems on lube units.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.443 Wastewater (Oil/Water) Separator

~~An~~No owner or operator of a petroleum refinery ~~must not~~shall operate any wastewater (oil/water) separator at a petroleum refinery unless the separator is equipped with air pollution control equipment capable of reducing by ~~at least 85 percent or more~~ the uncontrolled organic material emitted to the atmosphere. If no odor nuisance exists, the limitation of this Section ~~does~~shall not apply if the vapor pressure of the organic material is below 10.34 kPa (1.5 psia) at ~~294.3 °K (70 °F)~~294.3°K (70°F) at all times.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.444 Process Unit Turnarounds

- a) ~~An~~No owner or operator of a petroleum refinery ~~must not~~shall cause or allow a refinery process unit turnaround except in compliance with an operating procedure as approved by the Agency.
- b) Unless a procedure was already on file with the Agency by November 1, 1979, as part of an approved operating permit ~~no later than November 1, 1979~~, the owner or operator of a petroleum refinery ~~must~~shall submit to the Agency for approval a detailed procedure ~~to reduce~~for reducing emissions of VOM during refinery process unit turnarounds from organic material with a vapor pressure of at least 10.34 kPa (1.5 psia) ~~or greater at 294.3 °K (70 °F)~~294.3°K (70°F). The Agency ~~must~~shall not approve the procedure unless it provides for:
 - 1) Depressurization of the refinery process unit or vessel to a flare, refinery fuel gas system, or other equipment or system of equal emission control; ~~as approved by the Agency and approved by the USEPA as a SIP revision~~, until the internal pressure from the vessel or unit is less than 5.0 psig before allowing the vessel to be vented to the atmosphere, as approved by the Agency and by USEPA as a SIP revision;
 - 2) Recordkeeping of the following items:
 - A) Each date that a refinery unit or vessel is shut down; and
 - B) The total estimated quantity of VOM emitted to the atmosphere and the duration of the emission in hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.445 Leaks: General Requirements

Commented [JS105]: Add space after 445.

The owner or operator of a petroleum refinery ~~must~~shall:

Commented [BW106]: Remove extra space here

- a) Develop a monitoring program plan consistent with ~~the provisions of~~ Section 218.446;
- b) Conduct a monitoring program consistent with ~~the provisions of~~ Section 218.447;
- c) Record all leaking components which have a ~~VOM~~volatile organic material concentration exceeding 10,000 ppm consistent with ~~the provisions of~~ Section 218.448;
- d) Identify each component consistent with the monitoring program plan submitted ~~underpursuant to~~ Section 218.446;
- e) Repair and retest the leaking components as soon as possible within 22 days after the leak is found, but ~~by no later than~~ June 1 for ~~the purposes of~~ Section 218.447(a)(1), unless the leaking components cannot be repaired until the unit is shut down for turnaround; and
- f) Report to the Agency consistent with ~~the provisions of~~ Section 218.449.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.446 Monitoring Program Plan for Leaks

Commented [JS107]: Add space after 446.

The owner or operator of a petroleum refinery ~~must~~shall prepare a monitoring program plan which contains, at a minimum:

- a) An identification of all refinery components and the period in which each will be monitored ~~underpursuant to~~ Section 218.447 ~~of this Part~~;
- b) The format for the monitoring log required by Section 218.448 ~~of this Part~~;
- c) A description of the monitoring equipment to be used ~~underpursuant to~~ Section 218.447 ~~of this Part~~; and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, and all leaking components ~~so such that~~ they are

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obvious to ~~both~~ refinery personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.447 Monitoring Program for Leaks

- a) The owner or operator of a petroleum refinery subject to Section 218.445 ~~must of this Part shall, to detect~~for the purpose of detecting leaks, conduct a component monitoring program consistent with the following provisions:
- 1) Test all pump seals, pipeline valves in liquid service, and process drains once between March 1 and June 1 of each year, by methods ~~referenced in Section 218.105(g) of this Part, all pump seals, pipeline valves in liquid service and process drains;~~
 - 2) Test all pressure relief valves in gaseous service, pipeline valves in gaseous service, and compressor seals once each quarter of each calendar year, by methods ~~referenced in Section 218.105(g) of this Part, all pressure relief valves in gaseous service, pipeline valves in gaseous service and compressor seals;~~
 - 3) Inaccessible valves may be tested once each calendar year instead of once each quarter of each calendar year;
 - 4) Visually observe~~Observe visually~~ all pump seals weekly;
 - 5) Immediately test~~Test immediately~~ any pump seal from which liquids are observed dripping;
 - 6) Test any relief valve within 24 hours after it has vented to the atmosphere; and
 - 7) Immediately test~~Test immediately~~ after repairing~~repair~~ any component that was found leaking.
- b) Storage tank valves and pressure relief devices connected to an operating flare header or vapor recovery device are exempt from the monitoring requirements in subsection (a) ~~of this Section.~~

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- c) The Agency or ~~the~~USEPA may require more frequent monitoring than would otherwise be required by subsection (a) for components which are demonstrated to have a history of leaking.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.448 Recordkeeping for Leaks

- a) The owner or operator of a petroleum refinery ~~must~~shall maintain a ~~leaking components~~ monitoring log of leaking components, which ~~must~~shall contain, at a minimum, ~~the following information~~:
- 1) The name of the process unit where the component is located;
 - 2) The type of component (e.g., valve, seal);
 - 3) The identification number of the component;
 - 4) The date on which a leaking component is discovered;
 - 5) The date on which a leaking component is repaired;
 - 6) The date and instrument reading of the recheck procedure after a leaking component is repaired;
 - 7) A record of the calibration of the monitoring instrument;
 - 8) The identification number of leaking components which cannot be repaired until turnaround; and
 - 9) The total number of components inspected and the total number of components found leaking during that monitoring period.
- b) Copies of the monitoring log ~~must~~shall be retained by the owner or operator for at least~~a minimum of~~ two years after the date on which the record was made or the report prepared.
- c) Copies of the monitoring log ~~must~~shall be made available to the Agency, upon verbal or written request, at any reasonable time.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Commented [JS108]: Indentation throughout this section is off.
Lines a), b) are to be 0.5", 1), 2), 3) are to be 1".

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Section 218.449 Reporting for Leaks

The owner or operator of a petroleum refinery ~~must~~shall:

- a) Submit a report to the Agency ~~before prior to July 1 and September 1 the 1st day of both July and September~~ listing all leaking components identified ~~under pursuant to~~ Section 218.447 ~~of this Part~~ but not repaired within 22 days, all leaking components awaiting unit turnaround, the total number of components inspected, and the total number of components found leaking;
- b) Submit a signed statement with the report attesting that all monitoring and repairs were performed as required under Sections 218.445 through 218.448 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.450 Alternative Program for Leaks

The Agency may approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in Sections 218.446 through 218.449 ~~of this Part~~ upon a demonstration by the owner or operator of a petroleum refinery that the alternative program will provide refinery, Agency, and USEPA personnel with an equivalent ability to identify and repair leaking components. Any alternative program ~~is~~can be allowed only if approved by ~~the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.451 Sealing Device Requirements

Except for safety pressure relief valves, ~~an~~no owner or operator of a petroleum refinery ~~must~~not shall install or operate a valve at the end of a pipe or line containing VOMs unless the pipe or line is sealed with a second valve, blind flange, plug, cap, or other sealing device. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.452 Compliance Schedule for Leaks (Repealed)

~~The owner or operator of a petroleum refinery shall adhere to the increments of progress contained in the following schedule:~~

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- a) ~~Have submitted to the Agency a monitoring program consistent with Section 218.446 of this Part prior to September 1, 1990.~~
- b) ~~Have submitted to the Agency the first monitoring report pursuant to Section 218.449 of this Part prior to October 1, 1990.~~

Commented [JS109]: Excess strikes starting here, remove all.

(Source: Repealed at 50 Ill. Reg. _____, effective _____)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section 218.461 Manufacture of Pneumatic Rubber Tires

The owner or operator of an undertread cementing, ~~tread end~~~~tread end~~ cementing, or bead dipping operation at a pneumatic rubber tire manufacturing source ~~must~~~~shall~~ install and operate:

- a) A capture system, with minimum capture efficiency of ~~65%~~~~65 percent~~ by weight of VOM for ~~tread end~~~~tread end~~ cementing or bead dipping operations and a capture system with a minimum capture efficiency of ~~55.5%~~~~55.5 percent~~ by weight of VOM for undertread cementing; and
- b) A control device that meets the requirements of one of the following:
- 1) A carbon adsorption system designed and operated ~~to remove in a manner such that there is~~ at least a ~~90%~~~~90 percent removal~~ of VOM by weight from the gases ducted to the control device;
 - 2) An afterburning system that oxidizes at least ~~90%~~~~90 percent~~ of the captured nonmethane VOMs (VOM measured as total combustible carbon) to carbon dioxide and water; and
 - 3) An alternative VOM emission reduction system demonstrated to have at least a ~~90%~~~~90 percent~~ overall reduction efficiency and approved by the Agency and ~~approved by the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.462 Green Tire Spraying Operations

The owner or operator of a green tire spraying operation at a pneumatic rubber tire manufacturing source ~~must~~~~shall~~:

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- a) Install and operate:
- 1) A capture system with a minimum capture efficiency of ~~90%~~90 percent by weight of VOM; and
 - 2) A control device that meets the requirements of one of the following:
 - A) A carbon adsorption system designed and operated ~~to remove in a manner such that there is~~ at least ~~90%~~90 percent removal of VOM by weight from the gases ducted to the control device;
 - B) An afterburning system that oxidizes at least ~~90%~~90 percent of the captured nonmethane VOM (measured as total combustible carbon) to carbon dioxide and water; or
 - C) An alternative VOM emission reduction system demonstrated to have at least a ~~90%~~90 percent overall reduction efficiency and approved by the Agency and ~~approved by the~~ USEPA as a SIP revision.
- b) Substitute for the normal solvent-based mold release compound water-based sprays containing:
- 1) ~~Only up to 5%~~No more than five percent by volume of VOM as applied for the inside of tires;
 - 2) ~~Only up to 10%~~No more than ten percent by volume of VOM as applied for the outside of tires.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.463 Alternative Emission Reduction Systems

~~Instead~~In lieu of complying with Section 218.461 or 218.462 ~~of this Part~~, the owner or operator of an emission source may ~~use~~utilize an alternative ~~VOM~~volatile organic emission reduction system, including an alternative production process, which is demonstrated to be equivalent to Section 218.461 or 218.462 ~~based on VOM of this Part on the basis of emissions of volatile organic material~~. A ~~tread end~~tread end cementing operation ~~must~~shall be considered equivalent to Section 218.461 or 218.462 ~~of this Part for the purposes of this Section~~ if the ~~VOM~~total volatile organic emission from ~~the~~such operation is 10 grams or less per tire.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.464 Emission Testing

- a) Upon a reasonable request by the Agency, the owner or operator of a VOM emission source required to comply with a limit of Sections 218.461 through 218.464 ~~must of this Part shall~~ conduct emissions testing; at ~~that such~~ person's own expense, to demonstrate compliance.
- b) A person planning to conduct a VOM emission test to demonstrate compliance ~~must shall~~ notify the Agency of that intent ~~at least not less than~~ 30 days before the planned initiation of the tests so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 218.480 Applicability

- a) ~~This The rules of this~~ Subpart, except for Sections 218.483 through 218.485 ~~of this Part, applies apply~~ to all emission units of VOM, including ~~but not limited to~~ reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations, and centrifuges used in manufacturing, including packaging, of pharmaceuticals, and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If ~~the such an~~ emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, ~~the requirements of this Subpart still~~ ~~applies apply to the emission unit~~ if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).
- b) ~~Despite Notwithstanding~~ subsection (a) ~~of this Section~~, the air suspension coater/dryer, fluid bed dryers, tunnel dryers, and Accelacotas located in Libertyville Township, Lake County, ~~Illinois are shall be~~ exempt from ~~the rules of~~ this Subpart, except for Sections 218.483 through 218.485, if emissions of VOM not vented to air pollution control equipment do not exceed the following levels:
 - 1) For the air suspension coater/dryer: 2,268 kg/year (2.5 tons/year);
 - 2) Except ~~under as set forth in~~ subsection ~~(b)(4) 218.480(b)(4) of this Section~~, for each fluid bed dryer: 4,535 kg/year (5.0 tons/year);

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- 3) Except ~~under as set forth in~~ subsection ~~(b)(4) 218.480(b)(4) of this Section,~~ for each tunnel dryer: 6,803 kg/year (7.5 tons/year);
- 4) For fluid bed dryers #1, #2, and #3 and for tunnel dryers #1, #2, #3, and #4, the combined total annual emissions from the dryers listed in this subsection ~~(b)(4) must 218.480(b)(4) shall~~ not exceed 18,688 kg/year (20.6 tons/year); ~~and-~~
- ~~(f)~~ BOARD NOTE: ~~Tunnel~~ tunnel dryers are otherwise referred to as warm air dryers. ~~); and~~
- 5) For each Accelacota: 6,803 kg/year (7.5 tons/year).
- c) Sections 218.483 through 218.485 ~~of this Part~~ apply to a source ~~with having~~ one or more emission units that:
- 1) Are used to manufacture pharmaceuticals; ~~;~~ and
- 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268 kg/year (2.5 tons/year) of VOM, ~~or, if~~ If less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).
- d) ~~An~~ No owner or operator ~~must not~~ shall violate any condition in a permit when the condition results in ~~excluding~~ exclusion of an emission unit from this Subpart.
- e) Any pharmaceutical manufacturing source that becomes subject to ~~the provisions of~~ this Subpart at any time ~~remains~~ shall remain subject to ~~the provisions of~~ this Subpart at all times.
- f) Emissions subject to this Subpart ~~must~~ shall be controlled at all times consistent with the requirements ~~of set forth in~~ this Subpart.
- g) Any control device required ~~under pursuant to~~ this Subpart ~~must~~ shall be operated at all times when the source it is controlling is operated.
- h) Determinations of daily and annual emissions for ~~purposes of~~ this Section ~~must~~ shall be made using both data on the hourly emission rate (or the emissions per unit of throughput) and appropriate daily and annual data from records of

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emission unit operation (or material throughput or material consumption data). In the absence of representative test data ~~underpursuant to~~ Section 218.487 ~~of this Part~~ for the hourly emission rate (or the emissions per unit of throughput), ~~thesesuch~~ items ~~mustshall~~ be calculated using engineering calculations, including the methods ~~described~~ in Appendix B of "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products" (EPA-450/2-78-029), incorporated by reference in Section 218.112 ~~of this Part~~. ~~(This subsection doesshall~~ not affect the Agency's or ~~the~~ USEPA's authority to require emission tests to be performed ~~underpursuant to~~ Section 218.487 ~~of this Part~~.)

- i) Equipment and operations emitting VOM at a source subject to subsection (a) or (c) ~~of this Section~~ and used to produce pharmaceutical products or a pharmaceutical-like product, such as a hormone, enzyme, or antibiotic, ~~must-~~ ~~shall~~ be deemed to be engaged in ~~manufacturingthe manufacture of~~ pharmaceuticals for ~~the purposes of~~ this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges, and Vacuum Dryers

- a) The owner or operator ~~mustshall~~ equip all reactors, distillation units, crystallizers, centrifuges, and vacuum dryers that are used to manufacture pharmaceuticals with surface condensers or other air pollution control equipment listed in subsection (b) ~~of this Section~~. If a surface condenser is used, it ~~mustshall~~ be operated ~~so~~ ~~such~~ that the condenser outlet gas temperature does not exceed:
- 1) ~~248.2 °K (-13 °F)~~ ~~248.2 °K (-13 °F)~~ when condensing VOM of vapor pressure greater than 40.0 kPa (5.8 psi) at ~~294.3 °K (70 °F)~~; ~~294.3 °K (70 °F)~~, or
 - 2) ~~258.2 °K (5 °F)~~ ~~258.2 °K (5 °F)~~ when condensing VOM of vapor pressure greater than 20.0 kPa (2.9 psi) at ~~294.3 °K (70 °F)~~; ~~294.3 °K (70 °F)~~, or
 - 3) ~~273.2 °K (32 °F)~~ ~~273.2 °K (32 °F)~~ when condensing VOM of vapor pressure greater than 10.0 kPa (1.5 psi) at ~~294.3 °K (70 °F)~~; ~~294.3 °K (70 °F)~~, or
 - 4) ~~283.2 °K (50 °F)~~ ~~283.2 °K (50 °F)~~ when condensing VOM of vapor pressure greater than 7.0 kPa (1.0 psi) at ~~294.3 °K (70 °F)~~; ~~294.3 °K (70 °F)~~, or

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- 5) ~~298.2 °K (77 °F)~~~~298.2 °K (77 °F)~~ when condensing VOM of vapor pressure greater than 3.45 kPa (0.5 psi) at ~~294.3 °K (70 °F)~~~~294.3 °K (70 °F)~~.
- b) If a scrubber, carbon adsorber, thermal afterburner, catalytic afterburner, or other air pollution control equipment other than a surface condenser is used, ~~the such~~ equipment ~~must~~~~shall~~ reduce VOM emissions by at least 90%~~provide a reduction in the emissions of VOM of 90 percent or more.~~
- c) The owner or operator ~~must~~~~shall~~ enclose all centrifuges used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at ~~294.3 °K (70 °F)~~~~294.3 °K (70 °F)~~, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.482 Control of Air Dryers, Production Equipment Exhaust Systems, and Filters

- a) The owner or operator of an air dryer or production equipment exhaust system used to manufacture pharmaceuticals ~~must~~~~shall~~ control the emissions of VOM from ~~the such~~ emission unit by air pollution control equipment which reduces by ~~at least 90%~~~~90 percent or more~~ the VOM that would otherwise be emitted into the atmosphere.
- b) The owner or operator ~~must~~~~shall~~ enclose all rotary vacuum filters and other filters used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at ~~294.3 °K (70 °F)~~~~294.3 °K (70 °F)~~, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.483 Material Storage and Transfer

The owner or operator of a pharmaceutical manufacturing source ~~must~~~~shall~~:

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- a) Provide a vapor balance system that is at least ~~90%~~~~90 percent~~ effective in reducing VOM emissions from truck or railcar deliveries to storage tanks with capacities ~~of at least~~~~equal to or greater than~~ 7.57 m³ (2,000 gal) that store VOL with vapor pressures greater than 28.0 kPa (4.1 psi) at ~~294.3 °K (70 °F)~~~~294.3°K (70°F)~~; and
- b) Install, operate, and maintain pressure/vacuum conservation vents set at 0.2 kPa (0.03 psi) or greater on all storage tanks that store VOL with vapor pressures greater than 10 kPa (1.5 psi) at ~~294.3 °K (70 °F)~~~~294.3°K (70°F)~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.484 In-Process Tanks

The owner or operator ~~must~~~~shall~~ install covers on all in-process tanks used to manufacture pharmaceuticals and containing a VOL at any time. These covers must remain closed, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.485 Leaks

The owner or operator of a pharmaceutical manufacturing source ~~must~~~~shall~~ repair any component from which a leak of VOL can be observed. The repair ~~must~~~~shall~~ be completed as soon as practicable but ~~within~~~~no later than~~ 15 days after the leak is found. If the leaking component cannot be repaired until the process unit is shut down, the leaking component must then be repaired before the unit is restarted.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.486 Other Emission Units

The owner or operator of a washer, laboratory hood, tablet coating operation, mixing operation, or any other process emission unit not subject to Sections 218.481 through 218.485 ~~of this Part,~~ and used to manufacture pharmaceuticals ~~must~~~~shall~~ control ~~VOM~~~~the emissions of VOM~~ from ~~thesuch~~ emission units by:

- a) Air pollution control equipment which reduces by ~~at least 81%~~~~81 percent~~ or more the VOM that would otherwise be emitted to the atmosphere; or

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- b) A surface condenser which captures all the VOM which would otherwise be emitted to the atmosphere and ~~which~~ meets the requirements of Section 218.481(a) ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.487 Testing

- a) Upon request by the Agency or ~~the~~ USEPA, the owner or operator of any VOM source subject to this Subpart or exempt from this Subpart ~~under by virtue of the provisions of~~ Section 218.480 ~~must of this Part shall~~, at ~~its~~ ~~his~~ own expense, demonstrate compliance to the Agency and ~~the~~ USEPA by the methods or procedures ~~listed~~ in Section 218.105(f)(1) ~~of this Part~~.
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must shall~~ notify the Agency and ~~the~~ USEPA of that intent ~~at least not less than~~ 30 calendar days before the planned initiation of the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.488 Monitoring for Air Pollution Control Equipment

- a) At a minimum, continuous monitors for the following parameters ~~must shall~~ be installed on air pollution control equipment used to control sources subject to this Subpart:
- 1) Destruction device combustion temperature.
 - 2) Temperature rise across a catalytic afterburner bed.
 - 3) VOM concentration on a carbon adsorption unit to determine breakthrough.
 - 4) Outlet gas temperature of a refrigerated condenser.
 - 5) Temperature of a non-refrigerated condenser coolant supply system.
- b) Each monitor ~~must shall~~ be equipped with a recording device.
- c) Each monitor ~~must shall~~ be calibrated quarterly.

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- d) Each monitor ~~must~~shall operate at all times while the associated control equipment is operating.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.489 Recordkeeping for Air Pollution Control Equipment

- a) The owner or operator of a pharmaceutical manufacturing source ~~must~~shall maintain the following records:
- 1) Parameters ~~listed~~ in Section 218.488(a) ~~must~~of this Part shall be recorded.
 - 2) For emission units subject to Section 218.481 ~~of this Part~~, the vapor pressure of VOM being controlled ~~must~~shall be recorded for every process.
- b) For any leak subject to Section 218.485 ~~of this Part~~ which cannot be readily repaired within one hour after detection, the following records ~~must~~shall be kept:
- 1) The name of the leaking equipment;~~;~~
 - 2) The date and time the leak is detected;~~;~~
 - 3) The action taken to repair the leak;~~;~~ and
 - 4) The date and time the leak is repaired.
- c) The following records ~~must~~shall be kept for emission units subject to Section 218.484 ~~of this Part~~ which contain VOL:
- 1) For maintenance and inspection:
 - A) The date and time each cover is opened;~~;~~
 - B) The length of time the cover remains open;~~;~~ and
 - C) The reason why the cover is opened.

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- 2) For production and sampling, detailed written procedures or manufacturing directions specifying the circumstances under which covers may be opened and the procedures for opening covers.
- d) For each emission unit used ~~to manufacture in the manufacture of~~ pharmaceuticals for which the owner or operator of a pharmaceutical manufacturing source claims emission standards ~~do not apply are not applicable~~, because the emissions are below the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, the owner or operator ~~must~~ shall:
 - 1) Maintain a demonstration, including detailed engineering calculations of the maximum daily and annual emissions for each ~~such~~ emission unit, showing that the emissions are below the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate, for the current and prior calendar years;
 - 2) Maintain appropriate operating records for each ~~such~~ emission source to identify whether the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate, are ever exceeded; and
 - 3) Provide written notification to the Agency and ~~the~~ USEPA within 30 days ~~after determining of a determination~~ that ~~such~~ an emission unit has exceeded the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate.
- e) Records required under subsection (a) ~~must of this Section shall~~ be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made.
- f) Copies of the records ~~must~~ shall be made available to the Agency or ~~the~~ USEPA upon verbal or written request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

Section 218.500 Applicability for Batch Operations

- a) The control requirements ~~set forth in~~ Section 218.501 ~~of this Subpart shall~~ apply to:

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- 1) Process vents associated with batch operations at sources identified by any of the following four-digit standard industrial classification ("SIC") codes, as defined in the 1987 edition of the Federal Standard Industrial Classification Manual: SIC 2821, 2833, 2834, 2861, 2865, 2869, and 2879, incorporated by reference in Section 218.112; and
 - 2) All batch operations at Stepan Company's Millsdale manufacturing facility, Elwood, ~~Illinois~~.
- b) ~~The requirements of~~ Sections 218.500 through 218.506 ~~do shall~~ not apply to:
- 1) Any emission unit included ~~within the category specified in 35 Ill. Adm. Code 218, Subpart B or T;~~
 - 2) Any emission unit included ~~within the category specified in~~ Sections 218.520 through 218.527 ~~of this Subpart~~; and
 - 3) Any emission unit included within an Early Reduction Program ~~under, as specified in~~ 40 CFR Part 63, and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.
- c) The following single unit operations and batch process trains are subject to this Subpart but are considered to be de minimis and ~~are, therefore, exempt from the~~ control requirements of Section 218.501 ~~of this Subpart~~. However, the recordkeeping and reporting requirements in Section 218.505 ~~of this Subpart shall~~ apply to ~~thesesuch~~ de minimis single unit operations and batch process trains:
- 1) Within a batch operation, any single unit operation with uncontrolled total annual mass emissions of ~~less than or equal to~~ 500 lb/yr ~~or less~~ of VOM. ~~TheseSuch~~ single unit operations are also excluded from the calculation of the total annual mass emissions for a batch process train. If the uncontrolled total annual mass emissions from ~~ansuch~~ exempt single unit operation exceed 500 lb/yr of VOM in any subsequent year, the source ~~mustshall~~ calculate applicability in ~~complianceaccordance~~ with subsection (d) ~~of this Section~~ for both the individual single unit operation and the batch process train containing the single unit operation; and
 - 2) Any batch process train containing process vents that have, ~~in the~~ aggregate, uncontrolled total annual mass emissions, as determined in

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~~compliance~~~~accordance~~ with Section 218.502(a)~~of this Subpart~~, of less than 30,000 lb/yr of VOM for all products manufactured in ~~the~~~~such~~ batch process train.

- d) The applicability equations in subsection (e)~~of this Section~~, which require ~~calculating the calculation of~~ uncontrolled total annual mass emissions and flow rate value, ~~must~~~~shall~~ be used to determine whether a single unit operation or a batch process train is subject to the control requirements ~~set forth~~ in Section 218.501~~of this Subpart~~. The applicability equation ~~must~~~~shall~~ be applied to the following:
- 1) Any single unit operation with uncontrolled total annual mass emissions that exceed 500 lb/yr and with a VOM concentration greater than 500 ppmv. In this individual determination, no applicability analysis ~~is~~~~shall be~~ performed for any single unit operation with a VOM concentration of ~~less than or equal to~~ 500 ppmv ~~or less~~; and
 - 2) Any batch process train containing process vents which, ~~in the aggregate~~, have ~~aggregate~~ uncontrolled total annual mass emissions of 30,000 lb/yr or more of VOM from all products manufactured in the batch process train. Any single unit operation with uncontrolled total annual mass emissions exceeding 500 lb/yr, regardless of VOM concentration, ~~must~~~~shall~~ be included in the aggregate applicability analysis.
- e) Applicability equations
- 1) The applicability equations in this subsection are specific to volatility.
 - 2) For ~~purposes of~~ this subsection, the following abbreviations apply:
 - A) FR = Vent stream flow rate, scfm;
 - B) UTAME = Uncontrolled total annual mass emissions of VOM, expressed as lb/yr;
 - C) WAV = Weighted average volatility;
 - D) MVOM_i = Mass of VOM component i;
 - E) MWVOM_i = Molecular weight of VOM component i; and

Commented [BW111]: Remove extra lines between A) through F)remove extra spaces after B)

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F) VP_i = Vapor pressure of VOM component i.

- 3) Weighted average volatility ~~must~~ shall be calculated as follows:

$$WAV = \frac{\sum_{i=1}^n \left[(VP_i) \cdot \frac{(MVOM_i)}{(MIVOM_i)} \right]}{\sum_{i=1}^n \left[\frac{(MVOM_i)}{(MIVOM_i)} \right]}$$

Commented [SKA112]: This should be an equation (not a graphic)

- 4) ~~To determine~~ For purposes of determining applicability, flow rate values ~~must~~ shall be calculated as follows:

- A) Low WAV has a vapor pressure less than or equal to 75 mmHg at ~~20 °C (68 °F)~~ 20°C (68°F), and ~~must~~ shall use the following equation:

$$FR = [0.07 (UTAME)] - 1,821$$

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- B) Moderate WAV has a vapor pressure greater than 75 mmHg but less than or equal to 150 mmHg at ~~20 °C (68 °F)~~ 20°C (68°F), and ~~must~~ shall use the following equation:

$$FR = [0.031 (UTAME)] - 494$$

- C) High WAV has a vapor pressure greater than 150 mmHg at ~~20 °C (68 °F)~~ 20°C (68°F), and ~~must~~ shall use the following equation:

$$FR = [0.013 (UTAME)] - 301$$

- 5) To determine the vapor pressure of VOM, the applicable methods and procedures in Section 218.111 ~~of this Part shall~~ apply.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.501 Control Requirements for Batch Operations

- a) Every owner or operator of a single unit operation with an average flow rate, as determined in ~~compliance~~ accordance with Section 218.502(b) ~~of this Subpart,~~

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below the flow rate value calculated by the applicability equations ~~contained in Section 218.500(e) of this Subpart~~, ~~must~~shall reduce uncontrolled VOM emissions from ~~the~~such single unit operation by an overall efficiency, on average, of at least ~~90%90 percent~~, or 20 ppmv, per batch cycle.

- b) Every owner or operator of a batch process train with an average flow rate, as determined in ~~compliance accordance~~ with Section 218.502(b)(2) ~~of this Subpart~~, below the flow rate value calculated by the applicability equations ~~contained in Section 218.500(e) of this Subpart~~, ~~must~~shall reduce uncontrolled VOM emissions from ~~the~~such batch process train by an overall efficiency, on average, of at least ~~90%90 percent~~, or 20 ppmv, per batch cycle. ~~To demonstrate~~For purposes of demonstrating compliance with the emission limitations ~~set forth in this Section~~, any control device meeting the criteria in subsection (c) ~~must of this Section~~shall be deemed to achieve a control efficiency of ~~90%90 percent~~, or 20 ppmv, per batch cycle, as applicable.
- c) ~~Despite~~Notwithstanding subsections (a) or (b) ~~of this Section~~, any source that has installed on or before March 15, 1995, any control device which is demonstrated to the Agency's satisfaction to be unable to meet the applicable control requirements of this Section, scrubber, or shell and tube condenser using a non-refrigerated cooling media, and ~~such device~~ achieves at least ~~81%81 percent~~ control efficiency of VOM emissions, ~~must~~is required to meet the ~~90%90 percent~~ emission limitation or 20 ppmv VOM concentration ~~set forth in subsections (a) or (b) of this Section~~, as applicable, upon ~~the earlier to occur of~~ the date the device is replaced for any reason, including, ~~but not limited to~~, normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A scrubber, shell and tube condenser using a non-refrigerated cooling media, or other control device meeting the criteria of this subsection, is considered replaced when:
- 1) ~~The entire~~All of the device is replaced; or
 - 2) ~~Either~~When either the cost to repair the device or the cost to replace part of the device exceeds ~~50%50 percent~~ of the cost ~~to replace~~of replacing the entire device with a control device that complies with the ~~90%90 percent~~ emission limitation or 20 ppmv VOM concentration level in subsection (a) ~~of this Section~~, as applicable.
- d) If a boiler or process heater is used to comply with this Section, the vent stream ~~must~~shall be introduced into the flame zone of the boiler or process heater.

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- e) If a flare is used to comply with this Section, it ~~must~~shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~. The flare operation requirements of 40 CFR 60.18 do not apply if a process, not subject to this Subpart, vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with one or more of the provisions of 40 CFR 60.18.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.502 ~~Determining~~Determination of Uncontrolled Total Annual Mass Emissions and Average Flow Rate Values for Batch Operations

- a) Uncontrolled total annual mass emissions ~~must~~shall be determined by the following methods:
- 1) Direct process vent emissions measurements taken ~~before~~prior to any release to the atmosphere, following any recovery device, and ~~before~~prior to any control device, ~~if they provided such~~ measurements conform with the requirements of measuring the mass flow rate of VOM incoming to the control device ~~under as set forth~~ in Section 218.503(f)(2), (f)(3)(A), and (f)(3)(B) ~~of this Subpart~~; or
 - 2) Engineering estimates of the ~~aggregate~~ uncontrolled VOM emissions from a process vent or process vents, ~~in the aggregate~~, within a batch process train, using either the potential or permitted number of batch cycles per year or total production ~~under as represented in~~ the source's operating permit as follows:
 - A) Engineering estimates of the uncontrolled VOM emissions ~~must~~shall be based upon accepted chemical engineering principles, measurable process parameters, or physical or chemical laws and their properties. Examples of methods include, ~~but are not limited to, the following~~:
 - i) Use of material balances based on process stoichiometry to estimate maximum VOM concentrations;
 - ii) Estimation of maximum flow rate based on physical equipment design, such as pump or blower capacities; and

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- iii) Estimation of VOM concentrations based on saturation conditions.

- B) All data, assumptions, and procedures used in any engineering estimate mustshall be documented.

- B) Average flow rate mustshall be determined by any of the following methods:

- 1) Direct process vent flow rate measurements taken beforeprior to any release to the atmosphere, following any recovery device, and beforeprior to any control device, if theprovided such measurements conform with the requirements of measuring incoming volumetric flow rate set forth in Section 218.503(e)(2) of this Subpart;
- 2) Average flow rate for a single unit operation withhaving multiple emission events or batch process trains mustshall be the weighted average flow rate, calculated as follows:

$$WAF = \frac{\sum_{i=1}^n [AFR_i \times ADE_i]}{\sum_{i=1}^n (ADE_i)}$$

where:

WAF = Actual weighted average flow rate for a single unit operation or batch process train;

AFR_i = Average flow rate per emission event;

ADE_i = Annual duration of emission event; and

n = Number of emission events.

For purposes of this formula, the term "emission event" meansshall be defined as a discrete period of venting that is associated with a single unit operation. For example, a displacement of vapor resulting from the charging of a single unit operation with VOM will result in a discrete emission event that will last through the duration of the charge and will have an average flow rate equal to the rate of the charge. The expulsion of expanded vapor space when the single unit operation is heated is also an

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emission event. Both ~~of these~~ examples of emission events and others may occur in the same single unit operation during ~~the course of~~ the batch cycle. If the flow rate measurement for any emission event is zero, according to Section 218.503(f)(2) ~~of this Subpart~~, then ~~the such~~ event is not an emission event for ~~purposes of~~ this Section.

- 3) Engineering estimates calculated in ~~compliance accordance~~ with the ~~requirements in~~ subsection (a)(2) ~~of this Section~~.
- c) ~~To determine~~ For purposes of determining the average flow rate for steam vacuuming systems, the steam flow ~~must~~ shall be included in the average flow rate calculation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.503 Performance and Testing Requirements for Batch Operations

- a) Upon the Agency's request, the owner or operator of a batch operation ~~must~~ shall conduct testing to demonstrate compliance with Section 218.501 ~~of this Subpart~~. The owner or operator ~~must~~ shall, at its own expense, conduct ~~the such~~ tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified in Section 218.503(d), (e), and (f) of this Subpart~~.
- b) ~~Despite Notwithstanding~~ subsection (a) ~~of this Section~~, flares and process boilers used to comply with control requirements of Section 218.501 ~~are of this Subpart~~ shall be exempt from performance testing requirements.
- c) When a flare is used to comply with the control requirements of Section 218.501 ~~of this Subpart~~, the flare ~~must~~ shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~.
- d) The owner or operator of a batch operation that is exempt from the control requirements of Section 218.501 ~~must of this Subpart shall~~ demonstrate, upon the Agency's request, the absence of oversized gas moving equipment in any manifold. Gas moving equipment ~~must~~ shall be considered oversized if it exceeds the maximum requirements of the exhaust flow rate by more than ~~30% 30 percent~~.
- e) ~~To determine~~ For the purpose of demonstrating compliance with the control requirements in Section 218.501 ~~of this Subpart~~, the batch operation ~~must~~ shall be

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run at representative operating conditions and flow rates during any performance test.

- f) The following methods in 40 CFR ~~60. Appendix 60, Appendix~~ A, incorporated by reference at Section 218.112 ~~of this Part, must~~ shall be used to demonstrate compliance with the reduction efficiency requirement ~~set forth in Section 218.501 of this Subpart:~~
- 1) Method 1 or 1A, as appropriate, ~~to select for selection of the~~ sampling sites if the flow measuring device is not a rotameter. The control device inlet sampling site ~~to determine for determination of~~ vent stream VOM composition reduction efficiency ~~must~~ shall be ~~before prior to~~ the control device and after the control device;
 - 2) Method 2, 2A, 2C, or 2D, as appropriate, ~~to determine for determination of~~ gas stream volumetric flow rate flow measurements, which ~~must~~ shall be taken continuously. No traverse is necessary when the flow measuring device is an ultrasonic probe;
 - 3) Method 25A or Method 18, if applicable, to determine the concentration of VOM in the control device inlet and outlet;
 - A) The sampling time for each run ~~must~~ shall be as follows:
 - i) For batch cycles less than eight hours ~~long in length, if using Method 25A,~~ readings ~~must~~ shall be taken continuously over the entire length of the batch cycle with a maximum of 15-minute intervals between measurements ~~if using Method 25A.~~ If using Method 18, readings ~~must~~ shall be taken continuously with a maximum of 15-minute intervals between measurements throughout the batch cycle unless it becomes necessary to change the impinger train, in which case a 30-minute interval ~~must~~ shall not be exceeded.
 - ii) For batch cycles ~~at least of~~ eight hours ~~long and greater in length,~~ the owner or operator may either test in ~~compliance accordance~~ with the test procedures ~~defined in subsection (f)(3)(A)(i) of this Section or the owner or operator may or~~ elect to perform tests ~~under, pursuant to~~ either Method 25A or Method 18, ~~only during~~ only those

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portions of each emission event which define the emission profile of each emission event occurring within the batch cycle. For each emission event ~~lasting of less than four hours in duration~~, the owner or operator ~~must~~shall test continuously over the entire emission event ~~under as set forth in subsection (f)(3)(A)(i) of this Section~~. For each emission event ~~lasting more of greater than four hours in duration~~, the owner or operator ~~must~~shall elect ~~either to perform at least a minimum of three one-hour one hour test runs during the emission event or shall test continuously over the entire emission event within each single unit operation in the batch process train. To demonstrate that the portion of the emission event to be tested defines~~define the emission profile for the emission event, the owner or operator electing to rely on this option ~~must~~shall develop an emission profile for the entire emission event. ~~The~~Such emission profile ~~must~~shall be based ~~on upon~~ either process knowledge or test data collected. Examples of information that could constitute process knowledge include, ~~but are not limited to,~~ calculations based on material balances and process stoichiometry. Previous test results may be used ~~if the provided such~~ results are still relevant to the current process vent stream conditions.

- iii) For ~~purposes of subsection (f)(3) of this Section, the term~~ "emission event" ~~means shall be defined as~~ a discrete period of venting that is associated with a single unit operation. For example, a displacement of vapor resulting from the charging of a single unit operation with VOM will result in a discrete emission event that will last through the duration of the charge and will have an average flow rate equal to the rate of the charge. The expulsion of expanded single unit operation vapor space when the vessel is heated is also an emission event. Both ~~of these~~ examples of emission events and others may occur in the same single unit operation during ~~the course of~~ the batch cycle. If the flow rate measurement for any emission event is zero, in ~~compliance accordance~~ with subsection (f)(2) ~~of this Section~~, then ~~the such~~ event is not an emission event for ~~purposes of this Section~~.

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- B) The mass emission rate from the process vent or inlet to the control device ~~must~~shall be determined by combining concentration and flow rate measurements taken simultaneously at sampling sites selected in ~~compliance~~accordance with subsection (f)(1) ~~of this Section~~ throughout the batch cycle;
- C) The mass emission rate from the control device outlet ~~must~~shall be obtained by combining concentration and flow rate measurements taken simultaneously at sampling sites selected in ~~compliance~~accordance with subsection (f)(1) ~~of this Section~~ throughout the batch cycle; and
- D) The efficiency of the control device ~~must~~shall be determined by integrating the mass emission rates obtained in subsections (f)(3)(B) and (f)(3)(C) ~~of this Section~~, over the time of the batch cycle and dividing the difference in inlet and outlet mass flow totals by the inlet mass flow total.
- g) Upon request by the Agency to conduct testing, an owner or operator of a batch operation which has installed a scrubber, a shell and tube condenser using a non-refrigerated cooling media, or any other control device which meets the criteria of Section 218.501(c) ~~of this Subpart~~, ~~must~~shall demonstrate that ~~the~~such device achieves the control efficiency ~~under applicable within~~ Section 218.501 ~~of this Subpart~~ upon ~~the earlier to occur of~~ the date the device is replaced or December 31, 1999, whichever is earlier.
- h) The owner or operator of a batch operation may propose an alternative test method or procedures to demonstrate compliance with the control requirements ~~set forth~~ in Section 218.501 ~~of this Subpart~~. ~~The~~Such method or procedures ~~must~~shall be approved by the Agency and USEPA ~~through~~as evidenced by federally enforceable permit conditions.
- i) ~~Without~~In the absence of a request by the Agency to conduct performance testing in ~~compliance~~accordance with ~~the provisions of~~ this Section, a source may demonstrate compliance by ~~using~~the use of engineering estimates or process stoichiometry.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.504 Monitoring Requirements for Batch Operations

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- a) Every owner or operator using an afterburner to comply with Section 218.501 ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, temperature monitoring devices with an accuracy of $\pm 1\%$ ~~percent~~ of the temperature being measured expressed in degrees Celsius, equipped with continuous recorders.
- 1) ~~If Where~~ a catalytic afterburner is used, temperature monitoring devices ~~must shall~~ be installed in the gas stream immediately before and after the catalyst bed.
 - 2) ~~If Where~~ an afterburner other than a catalytic afterburner is used, a temperature monitoring device ~~must shall~~ be installed in the combustion chamber.
- b) Every owner or operator using a flare to comply with Section 218.501 ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a heat sensing device, such as an ultra-violet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a flame.
- c) Every owner or operator using a scrubber to comply with ~~this~~ Section 218.501 ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, ~~the following~~:
- 1) A temperature monitoring device for scrubbant liquid having an accuracy of $\pm 1\%$ ~~percent~~ of the temperature being monitored expressed in degrees Celsius and a specific gravity device for scrubbant liquid, each equipped with a continuous recorder; or
 - 2) A VOM monitoring device used to indicate the concentration of VOM exiting the control device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
- d) Every owner or operator using a condenser to comply with Section 218.501 ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, ~~the following~~:

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- 1) A condenser exit temperature monitoring device equipped with a continuous recorder and having an accuracy of $\pm 1\%$ of the temperature being monitored expressed in degrees Celsius; or
 - 2) A VOM monitoring device used to indicate the concentration of VOM such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
- e) Every owner or operator using a carbon absorber to comply with this Subpart ~~must~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, ~~the following equipment~~:
- 1) An integrating regeneration steam flow monitoring device ~~with~~ having an accuracy of $\pm 10\%$, and a carbon bed temperature monitoring device ~~with~~ having an accuracy of $\pm 1\%$ of the temperature being monitored expressed in degrees Celsius, both equipped with a continuous recorder; or
 - 2) A VOM monitoring device used to indicate the concentration level of VOM exiting ~~the~~ such device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
- f) Every owner or operator using a boiler or process heater with a design heat input capacity less than 44 Mw to comply with Section 218.501 ~~must of this Subpart~~ ~~shall~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, a temperature monitoring device in the firebox with an accuracy of $\pm 1\%$ of the temperature being measured expressed in degrees Celsius, equipped with a continuous recorder. Any boiler or process heater in which all process vent streams are introduced with primary fuel is exempt from this requirement.
- g) The owner or operator of a process vent ~~will~~ ~~shall~~ be permitted to monitor by an alternative method or may monitor parameters other than those ~~listed~~ in subsections (a) through (f) ~~of this Section~~, if approved by the Agency and USEPA. ~~The~~ Such alternative method or parameters ~~must~~ ~~shall~~ be ~~contained~~ in the source's operating permit as federally enforceable permit conditions.
- h) ~~Despite~~ ~~Notwithstanding~~ subsections (a) through (g) ~~of this Section~~, sources using a scrubber, shell and tube condenser using a non-refrigerated cooling media, or

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other control device meeting the criteria of Section 218.501(c) ~~of this Subpart~~, are required to monitor compliance with ~~the requirements of this Subpart~~ on and after the ~~earlier to occur of~~ the date ~~the such~~ device is replaced for any reason or December 31, 1999, whichever is earlier.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.505 Reporting and Recordkeeping for Batch Operations

- a) Every owner or operator of a de minimis single unit operation or batch process train exempt under Section 218.500(c)(1) or (c)(2) ~~must of this Subpart shall~~ keep records of the uncontrolled total annual mass emissions for any de minimis single unit operation or batch process train, as applicable, and documentation verifying these values or measurements. The documentation ~~must shall~~ include the engineering calculations, any measurements made in ~~compliance accordance~~ with Section 218.503 ~~of this Subpart~~, and the potential or permitted number of batch cycles per year; or, in the alternative, total production as represented in the source's operating permit.
- b) Every owner or operator of a single unit operation exempt under Section 218.500 (b) (3) or (d) ~~must of this Subpart shall~~ keep the following records:
 - 1) The uncontrolled total annual mass emissions and documentation verifying these values or measurements. The documentation ~~must shall~~ include any engineering calculations, any measurements made in ~~compliance accordance~~ with Section 218.503 ~~of this Subpart~~, and the potential or permitted number of batch cycles per year; or, in the alternative, total production ~~under as represented in~~ the source's operating permit.
 - 2) The average flow rate in scfm and documentation verifying this value.
- c) Every owner or operator of a batch operation subject to the control requirements of Section 218.501 ~~must of this Subpart shall~~ keep records of the following parameters required to be monitored under Section 218.504 ~~of this Subpart~~:
 - 1) If using a thermal or catalytic afterburner to comply with Section 218.501-~~of this Subpart~~, records indicating the average combustion chamber temperature of the afterburner (or the average temperature upstream and downstream of the catalyst bed for a catalytic afterburner), measured

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continuously and averaged over the same time period as the performance test.

- 2) If using a flare (i.e., steam-assisted, air-assisted, or nonassisted) to comply with Section 218.501 ~~of this Subpart~~, continuous records of the flare pilot flame monitoring and records of all periods of operations during which the pilot flame is absent.
- 3) If using any of the following as a control device, the following records:
 - A) Where a scrubber is used, the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid saturation, if approved by the Agency) and the average exit temperature of the absorbing liquid, measured continuously and averaged over the same time period as the performance test (both measured while the vent stream is routed normally);
 - B) Where a condenser is used, the average exit (product side) temperature measured continuously and averaged over the same time period as the performance test while the vent stream is routed normally;
 - C) Where a carbon adsorber is used, the total steam mass flow measured continuously and averaged over the same time period as the performance test (full carbon bed cycle), temperature of the carbon bed after regeneration (and within 15 minutes after completion of any cooling cycle(s)), and duration of the carbon bed steaming cycle (all measured while the vent stream is routed normally); or
 - D) As an alternative to subsection (c)(3)(A), (c)(3)(B), or (c)(3)(C) ~~of this Section~~, at a minimum, records indicating the concentration level or reading indicated by the VOM monitoring device at the outlet of the scrubber, condenser, or carbon adsorber, measured continuously and averaged over the same time period as the performance test (while the vent stream is routed normally).

- e) Every owner or operator of a single unit operation claiming a vent stream concentration exemption level ~~under, as set forth in~~ Section 218.500(d)(1) ~~must of this Subpart, shall~~ maintain records to indicate the vent stream concentration is

Commented [BW119]: Should be d)

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~~less than or equal to 500 ppmv or less,~~ and ~~must~~shall notify the Agency in writing if the vent stream concentration at any time equals or exceeds 500 ppmv, within 60 days after ~~the~~such event. ~~The~~Such notification ~~must~~shall include a copy of all records of ~~the~~such event.

- e) An owner or operator of a batch operation subject to the control requirements of Section 218.501 ~~of this Subpart~~ may maintain alternative records other than those ~~listed in subsection (c) of this Section.~~ Any alternative recordkeeping ~~must~~shall be approved by the Agency and USEPA and ~~must~~shall be ~~contained in the~~ source's operating permit as federally enforceable permit conditions.
- f) ~~Despite Notwithstanding~~ subsections (a) through (e) ~~of this Section,~~ any owner or operator of a batch operation which uses either a scrubber, shell and tube condenser using non-refrigerated cooling media, or other control device meeting the criteria of Section 218.501(c) ~~must of this Subpart, is required to~~ monitor compliance with ~~the requirements of this Subpart on and after the earlier to occur of the date the~~such device is replaced for any reason or December 31, 1999, ~~whichever is earlier.~~
- g) The owner or operator of a de minimis single unit operation or batch process train exempt from the control requirements of Section 218.500(c) ~~must of this Subpart~~shall notify the Agency in writing if the uncontrolled total annual mass emissions from ~~the~~such de minimis single unit operation or batch process train exceed the threshold in Section 218.500(c)(1) or (c)(2) ~~of this Subpart,~~ respectively, within 60 days after the event occurs. ~~The~~Such notification ~~must~~shall include a copy of all records of ~~the~~such event.
- h) Every owner or operator of a batch operation required to keep records under this Section ~~must~~shall maintain ~~the~~such records at the source for ~~at least a minimum period of~~ three years and ~~must~~shall make all ~~the~~such records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.506 Compliance Date

Every owner or operator of a batch operation subject to Sections 218.500 through 218.506 ~~must of this Subpart~~shall comply with its ~~requirements, standards, limitations and mandates~~ by March 15, 1996, or upon initial ~~startup~~start-up, whichever is later.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.520 Emission Limitations for Air Oxidation Processes

- a) ~~A~~ No person must not shall cause or allow the emission of VOM from any process vent stream unless the process vent stream is vented to a combustion device which is designed and operated either:
- 1) To reduce the volatile organic emissions vented to it with an efficiency of at least ~~ninety eight percent (98%)~~ by weight; or
 - 2) To emit VOM at a concentration less than ~~20 ppm~~ twenty parts per million by volume, dry basis.
- b) Combustion Device at a Phthalic Anhydride Air Oxidation Process
- 1) ~~Despite Notwithstanding~~ subsection (a) ~~above~~, and subject to subsection (b)(2) ~~below~~, ~~a~~ no person must not shall cause or allow the emissions of VOM through an existing combustion device at a phthalic anhydride air oxidation process, unless the combustion device is operated to achieve:
 - A) 90% control of the volatile organic emissions vented to it; or
 - B) VOM emissions concentration of less than 50 ~~ppm~~ parts per million by volume, dry basis.
 - 2) Any existing combustion device subject to subsection (b)(1) ~~must above is required to~~ meet the ~~98% 98 percent~~ emissions limit ~~set forth in subsection (a) above~~ either upon replacing the combustion device for any reasons, including, ~~but not be limited to~~, normal maintenance, malfunction, accident, and obsolescence, or ~~the date of~~ December 31, 1999, whichever comes first. A combustion device is considered ~~to be~~ replaced when:
 - A) ~~The entire All of the~~ device is replaced; or
 - B) When the cost of the repair of the device or the cost of replacement of part of the device exceeds 50% of the cost ~~to replace of replacing~~ the entire device with a device which complies.
- c) The limitations of subsection (a) ~~above shall~~ apply to any process vent stream or combination of process vent streams with a ~~TRE index~~ Total Resource

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~~Effectiveness Index (TRE)~~ less than or equal to 6.0. TRE ~~must~~shall be determined by the following methods:

- 1) If an air oxidation process has more than one process vent stream, TRE ~~must~~shall be the more stringent of either the TRE based ~~on~~upon a combination of the process vent streams or the TRE based ~~on~~upon each individual process vent stream.
- 2) The TRE of a process vent stream and the TRE of a combination of process vent streams, whichever is applicable, ~~must~~shall be determined according to the following equation:

$$TRE = E(-1)[a + bF(n) + cF + dFH + e(F \cdot H)(n) + fF(0.5)]$$

Commented [SKA120]: This should be an equation (not a graphic)

where:

n =	0.88;
TRE =	Total resource effectiveness index;
F =	Vent stream flowrate (scm/min), at a standard temperature of ~~20 °C~~ <u>20°C</u> ;
E =	Hourly measured emissions in kg/hr;
H =	Net heating value of vent stream (MJ/scm), where the net enthalpy per mole of offgas is based on combustion at ~~25 °C~~ <u>25°C</u> and 760 ~~mmHg~~ <u>mm Hg</u> , but the standard temperature ~~to determine for determining~~ the volume corresponding to one mole is ~~20 °C~~ <u>20°C</u> , as in the definition of "Flow";
a, b, c, d, e, and f =	Coefficients obtained by use of Appendix D.

- 3) For nonchlorinated process vent streams, if the net heating value, H, is greater than 3.6 MJ/scm, F ~~must~~shall be replaced by F' ~~to calculate for purposes of calculating~~ TRE. F' is computed as follows:

$$F' = FH / 3.6$$

where F and H are as defined in subsection (c)(2) ~~of this Section~~.

- 4) The actual numerical values used in the equation ~~described~~ in subsection (c)(2) ~~must~~shall be determined as follows:

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- A) All reference methods and procedures ~~to determine~~^{for determining} the flow (F), hourly emissions (E), and net heating (H); value ~~must~~^{shall} be in compliance with Appendix C.
- B) All coefficients ~~described~~^{in subsection (c)(2)} ~~must of this Section~~^{shall} ~~comply~~^{be in compliance} with Appendix D.

Commented [SKA121]: "accordance" is on file

Commented [SKA122]: Recommend revisiting this language

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.522 Savings Clause

The owner or operator of an air oxidation process with a TRE of 1.0 or less ~~must~~^{shall} have complied with ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ by the dates ~~set forth~~ in Section 218.106(a) and (b) ~~of this Part~~. Sources ~~that are~~ subject to 218.520(b) ~~of this Subpart~~ that become subject to the control requirements of 218.520(a) ~~of this Subpart~~ after the compliance dates ~~set out~~ in 218.106(a) and (b) ~~must of this Part~~^{shall} comply with the timetable ~~in set forth within~~ Section 218.520(b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.523 Compliance

The emissions limitations for air oxidation processes ~~located~~ⁱⁿ Section 218.520(a) ~~apply of this Subpart~~^{are applicable} to air oxidation processes on October 25, 1994.

- a) An owner or operator of an air oxidation process with a TRE of 6.0 or less that is subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ on October 25, 1994, ~~must~~^{shall} comply with ~~the provisions of~~ Section 218.520(a) by December 31, 1999, or upon startup of the emission unit, whichever comes first. This subsection does not supersede the Savings Clause in Section 218.522 ~~of this Part~~.
- b) An owner or operator of an air oxidation process that becomes subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ after October 25, 1994, ~~must~~^{shall} comply with ~~the requirements of~~ Section 218.520(a) upon startup of the emission unit.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.524 ~~Determining~~^{Determination of} Applicability

- a) Sources subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ either

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through application of Section 218.520(c) of this Subpart or ~~through~~ continued application under Section 218.522 of this Subpart ~~shall~~ continue to be subject to the applicable limitations even if operations change ~~so as to yield result in~~ a TRE ~~that is above~~ the level that ~~which~~ initially made the regulation applicable to the source's operations.

- b) ~~Despite~~Notwithstanding Section 218.520(c) of this Subpart, any air oxidation process that ~~uses~~utilizes a combustion device to control process vent streams at any time ~~must~~shall maintain the process in compliance with ~~the provisions of~~ Section 218.520(a) ~~of this Subpart~~ at all times ~~thereafter~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.526 Testing and Monitoring

- a) Upon reasonable request by the Agency, the owner or operator of an air oxidation process ~~must~~shall demonstrate compliance with this Subpart by ~~using~~use of the methods ~~specified in~~ Appendix C. This Section does not limit ~~the~~ USEPA's authority, under the CAA Clean Air Act, to require demonstrations of compliance.
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must~~shall notify the Agency of that intent ~~at least~~not less than 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART W: AGRICULTURE

Section 218.541 Pesticide Exception

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to the spraying or use of insecticides, herbicides, or other pesticides.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART X: CONSTRUCTION

Section 218.561 Architectural Coatings

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~~A~~No person ~~must not~~shall cause or allow the sale or use of any architectural coating containing more than ~~20%20 percent~~ by volume of photo-chemically reactive material in containers ~~with~~having a capacity of more than one gallon.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.562 Paving Operations

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to the application of paving asphalt and pavement marking paint from sunrise to sunset.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.563 Cutback Asphalt

- a) ~~A~~No person ~~must not~~shall cause or allow the use or application of cutback asphalt for paving, resurfacing, reconditioning, repairing, or otherwise maintaining a roadway unless:
- 1) The use or application of the cutback asphalt commences on or after October 1 of any year and ~~the~~such use or application is completed by April 30 of the following year; ~~or~~
 - 2) The cutback asphalt is a long-life stockpile material which remains in stock after April 30 of each year and ~~as such it~~ may be used until depleted for patching potholes and for other similar repair work; or
 - 3) The cutback asphalt is to be used solely as an asphalt prime coat.
- b) Sources subject to this Section are not required to submit or obtain an Agency approved compliance plan or project completion schedule under 35 Ill. Adm. Code 201, Subpart H.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Y: GASOLINE DISTRIBUTION

Section 218.581 Bulk Gasoline Plants

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- a) Subject to subsection (e) ~~of this Section, a~~ person ~~must not~~ may cause or allow the transfer of gasoline from a delivery vessel into a stationary storage tank located at a bulk gasoline plant unless:
- 1) The delivery vessel and the stationary storage tank are each equipped with a vapor collection system that meets the requirements of subsection (d)(4) ~~of this Section;~~
 - 2) Each vapor collection system is operating;
 - 3) The delivery vessel displays the appropriate sticker ~~underpursuant to the requirements of Sections 218.584 (b) or (d) of this Part;~~
 - 4) The pressure relief ~~valve or valves~~ valve(s) on the stationary storage tank and the delivery vessel are set to release at no less than 0.7 psi or the highest pressure allowed by state or local fire codes or the guidelines of the National Fire Prevention Association; and
 - 5) The stationary storage tank is equipped with a submerged loading pipe.
- b) Subject to subsection (f) ~~of this Section, a~~ person ~~must not~~ may cause or allow the transfer of gasoline from a stationary storage tank located at a bulk gasoline plant into a delivery vessel unless:
- 1) The requirements ~~set forth in subsections (a)(1) through (a)(4) of this Section~~ are met; and
 - 2) Equipment is available at the bulk gasoline plant to provide for the submerged filling of the delivery vessel or the delivery vessel is equipped for bottom loading.
- c) Subject to subsection (e) ~~of this Section,~~ each owner of a stationary storage tank located at a bulk gasoline plant ~~must~~ shall:
- 1) Equip each stationary storage tank with a vapor control system that meets the requirements of subsection (a) or (b) ~~of this Section,~~ whichever ~~applies is applicable;~~
 - 2) Provide instructions to the operator of the bulk gasoline plant describing necessary maintenance operations and procedures ~~that promptly notify for~~

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~~prompt notification of~~ the owner in case ~~of any malfunction of a~~ vapor control system malfunctions; and

- 3) Repair, replace, or modify any worn out or malfunctioning component or element of design.

- d) Subject to subsection (c) ~~of this Section~~, each operator of a bulk gasoline plant must~~shall~~:

- 1) Maintain and operate each vapor control system in compliance~~accordance~~ with the owner's instructions;
- 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system; ~~and~~
- 3) Maintain gauges, meters, or other specified testing devices in proper working order;
- 4) Operate the bulk plant vapor collection system and gasoline loading equipment to prevent~~in a manner that prevents~~:
 - A) Gauge pressure from exceeding 45.7 cm (18 in.) of water and vacuum from exceeding 15.2 cm (6 in.) of water, as measured as close as possible to the vapor hose connection; and
 - B) A reading at least 100%~~equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in compliance~~accordance~~ with the procedure ~~described in~~ "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", Appendix B, EPA 450/2-78-051, ~~(incorporated by reference in Section 218.112) of this Part~~; and
 - C) Avoidable leaks of liquid during loading or unloading operations.
- 5) Provide a pressure tap or equivalent on the bulk plant vapor collection system ~~in order to~~ allow the determination of compliance with subsection (d)(4)(A) ~~of this Section~~; and

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- 6) Within 15 business days after discovery of any leak by the owner, the operator, the Agency, or ~~the~~ USEPA, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) or (B) ~~of this Section.~~
- e) The requirements of subsections (a), (c), and (d) ~~do of this Section shall~~ not apply to:
 - 1) Any stationary storage tank with a capacity of less than 2,177 ~~l~~ (575 gal); or
 - 2) Any bulk gasoline plant whose daily gasoline throughput is less than 15,140 ~~l~~ (4,000 gal/day) on a ~~30-day~~ thirty-day rolling average.
- f) ~~Subsection The requirements of subsection (b) applies of this Section shall apply only to bulk gasoline plants whose daily gasoline throughput is at least greater than or equal to~~ 15,140 ~~l~~ (4,000 gal/day) on a ~~30-day~~ thirty-day rolling average.
- g) Any bulk gasoline plant which is ever subject to subsections (a), (b), (c), or (d) ~~must~~ shall always be subject to these ~~subsections~~ paragraphs.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.582 Bulk Gasoline Terminals

- a) ~~A~~ No person ~~must not~~ shall cause or allow the transfer of gasoline into any delivery vessel from any bulk gasoline terminal unless:
 - 1) The bulk gasoline terminal is equipped with a vapor control system that limits emission of VOM to 80 mg /l (0.00067 lbs/gal) of gasoline loaded;
 - 2) The vapor control system is operating and all vapors displaced in the loading of gasoline to the delivery vessel are vented only to the vapor control system;
 - 3) There is no liquid drainage from the loading device when it is not in use;
 - 4) All loading and vapor return lines are equipped with fittings which are vapor tight; and

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- 5) The delivery vessel displays the appropriate sticker ~~underpursuant to the requirements of~~ Section 218.584(b) or (d) ~~of this Part~~; or, if the terminal is driver-loaded, the terminal owner or operator ~~will~~shall be deemed to be in compliance with this Section when terminal access authorization is limited to those owners ~~or~~and/or operators of delivery vessels, ~~or both~~, who have provided a current certification as required by Section 218.584(c)(3) ~~of this Part~~.
- b) The operator of a bulk gasoline terminal ~~must~~shall:
- 1) Operate the terminal vapor collection system and gasoline loading equipment ~~to prevent in a manner that prevents~~:
- A) Gauge pressure from exceeding 18 inches of water and vacuum from exceeding ~~six~~6 inches of water as measured as close as possible to the vapor hose connection; and
- B) A reading ~~at least 100% equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in ~~compliance~~accordance with the procedure ~~described in~~ EPA 450/2-78-051 Appendix B, incorporated by reference in Section 218.112-~~of this Part~~; and
- C) Avoidable leaks of liquid during loading or unloading operations.
- 2) Provide a pressure tap or equivalent on the terminal vapor collection system ~~in order to~~ allow the determination of compliance with Section 218.582(d)(1)(A) ~~of this Part~~; and
- 3) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (c)(1)(A) or (B) ~~of this Section~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.583 Gasoline Dispensing Operations – Storage Tank Filling Operations

- a) Subject to subsection (b), ~~any~~ person ~~must not~~shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing operation unless:

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- 1) The tank is equipped with a submerged loading pipe; ~~and~~
- 2) The vapors displaced from the storage tank during filling are processed by a vapor control system that includes at least one ~~or more~~ of the following:
 - A) A vapor collection system that meets the requirements of subsection (d)(4); ~~or~~
 - B) A refrigeration-condensation system or any other system approved by the Agency and approved by ~~the~~ USEPA as a SIP revision, that recovers at least 90% ~~90 percent~~ by weight of all vaporized organic material from the equipment being controlled; and
 - C) The delivery vessel displays the appropriate sticker under ~~pursuant to the requirements of~~ Section 218.584(b) or (d) ~~of this Part; and~~
- 3) By March 15, 1995, all tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
 - A) The pressure/vacuum relief valve must ~~shall~~ be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of at least ~~no less than~~ 6.0 inches water column; or
 - B) The pressure/vacuum relief valve must ~~shall~~ meet the requirements of Section 218.586(c) ~~of this Part; and~~
- 4) The owner or operator of a gasoline dispensing operation demonstrates compliance with subsection (a)(3) ~~of this Section~~, by March 15, 1995, or within 30 days after installing ~~installation of~~ each pressure/vacuum relief valve, whichever is later, and then ~~at least annually thereafter~~, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test must ~~shall~~ be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system must ~~shall~~ be adequate. The owner or operator must ~~shall~~ maintain any records required by this subsection for a period of ~~three~~ years.

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- b) ~~Subsections~~~~The requirements of subsections~~ (a)(2) and (a)(3) ~~do shall~~ not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing operation if:
- 1) The tank is equipped with a floating roof; or other system of equal or better emission control approved by the Agency and approved by ~~the~~ USEPA as a SIP revision;
 - 2) The tank has a capacity of less than ~~2,000~~~~2000~~ gallons and was in place and operating before January 1, 1979; or
 - 3) The tank has a capacity of less than 575 gallons.
- c) Subject to subsection (b), each owner of a gasoline dispensing operation ~~must shall~~:
- 1) Install all control systems and make all process modifications required by subsection (a);
 - 2) Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any ~~malfunction of a~~ vapor control system ~~malfunction~~; and
 - 3) Repair, replace, or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (b), each operator of a gasoline dispensing operation ~~must shall~~:
- 1) Maintain and operate each vapor control system in ~~compliance~~~~accordance~~ with the owner's instructions;
 - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - 3) Maintain gauges, meters, or other specified testing devices in proper working order;

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- 4) Operate the vapor collection system and delivery vessel unloading points ~~to prevent in a manner that prevents:~~
 - A) A reading ~~at least 100%~~~~equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in ~~compliance accordance~~ with the procedure ~~described in~~ EPA 450/2-78-051 ~~Appendix~~~~appendix B,~~ incorporated by reference in Section 218.112 ~~of this Part;~~ and
 - B) Avoidable leaks of liquid during the filling of storage tanks; and
- 5) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.584 Gasoline Delivery Vessels

- a) Any delivery vessel equipped for vapor control by use of vapor collection equipment:
 - 1) ~~Must~~~~shall~~ have a vapor space connection ~~that is~~ equipped with fittings which are vapor tight;
 - 2) ~~Must~~~~shall~~ have its hatches closed at all times during loading or unloading operations, unless a top loading vapor recovery system is used;
 - 3) ~~Must~~~~shall~~ not internally exceed a gauge pressure of 18 inches of water or a vacuum of ~~six~~6 inches of water;
 - 4) ~~Must~~~~shall~~ be designed and maintained to be vapor tight at all times during normal operations;
 - 5) ~~Must~~~~shall~~ not be refilled in Illinois at other than:
 - A) A bulk gasoline terminal that complies with ~~the requirements of~~ Section 218.582 ~~of this Part;~~ or
 - B) A bulk gasoline plant that complies with ~~the requirements of~~ Section 218.581(b) ~~of this Part.~~

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- 6) ~~Must~~ Shall be tested annually in ~~compliance~~ accordance with Method 27, 40 CFR ~~60. Appendix A-860, Appendix A~~, incorporated by reference in Section 218.105. Each vessel must be repaired and retested within 15 business days after discovery of the leak by the owner, operator, or the Agency, when it fails to sustain:
- A) A pressure drop of up to ~~no more than~~ three inches of water in five minutes; and
- B) A vacuum drop of up to ~~no more than~~ three inches of water in five minutes.
- b) Any delivery vessel meeting the requirements of subsection (a) ~~must of this Section shall~~ have a sticker affixed to the tank adjacent to the tank manufacturer's data plate which contains the tester's name, the tank identification number, and the date of the test. The sticker must ~~shall~~ be in a form prescribed by the Agency, and, for those delivery vessels subject to 35 Ill. Adm. Code 215 as of December 31, 1987, must ~~shall~~ have been displayed by ~~no later than~~ December 31, 1987.
- c) The owner or operator of a delivery vessel must ~~shall~~:
- 1) Maintain copies of any test required under subsection (a)(6) ~~of this Section~~ for three ~~a period of 3~~ years;
- 2) Provide copies of these tests to the Agency upon request; and
- 3) Provide annual test result certification to bulk gasoline plants and terminals where the delivery vessel is loaded.
- d) Any delivery vessel which has undergone and passed a test in another state which has a USEPA-approved leak testing and certification program will satisfy the requirements of subsection (a) ~~of this Section~~. Delivery vessels must display a sticker, decal, or stencil approved by the state where tested or comply with the requirements of subsection (b) ~~of this Section~~. All such stickers, decals, or stencils must ~~shall~~ have been displayed by ~~no later than~~ December 31, 1987, for delivery vessels subject to 35 Ill. Adm. Code 215 as of December 31, 1987.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.586 Gasoline Dispensing Operations - Motor Vehicle Fueling Operations

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- a) Definitions. For ~~the purposes of~~ this Section, the following definitions apply.
- 1) "Average monthly volume" means the amount of motor vehicle fuel dispensed per month from a gasoline dispensing operation based upon a monthly average for the ~~two-year~~^{2-year} period of November 1990 through October 1992, or, if not available, the monthly average for the most recent ~~12~~^{twelve} calendar months. Monthly averages are to include only those months when the operation was operating.
 - 2) "Certified" means any vapor collection and control system which has been tested and approved by CARB as having a vapor recovery and removal efficiency of at least 95% (by weight) ~~will~~^{shall} constitute a certified vapor collection and control system. CARB testing and approval is ~~underpursuant to~~ the CARB manual, incorporated by reference at Section 218.112 ~~of this Part~~.
 - 3) "Completion of installation" means the successful passing of ~~at least one or more~~ of the following tests applicable to the installed vapor collection and control system: Dynamic Backpressure Test, Pressure Decay/Leak Test, and Liquid Blockage Test, incorporated by reference at Section 218.112 ~~of this Part~~.
 - 4) "CARB" means California Air Resources Board, P.O. Box 2815, Sacramento, CA 95812.
 - 5) "Employee" means any person who performs work for an employer.
 - 6) "Operation" means any building, structure, installation, operation, or combination ~~of them~~^{thereof} located on contiguous properties and under common ownership that provides for the dispensing of motor vehicle fuel.
 - 7) "Gasoline dispensing operation" means any operation where motor vehicle fuel is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of ~~at least~~ 2176 liters (575 gallons) ~~or more~~.
 - 8) "Modification" means any change, removal, or addition, other than an identical replacement, of any component ~~contained~~ within the vapor collection and control system.

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- 9) "Motor vehicle" means any self-propelled vehicle powered by an internal combustion engine, including, ~~but not limited to,~~ automobiles and trucks. ~~This definition specifically excludes~~ Specifically excluded from this definition are watercraft and aircraft.
 - 10) "Motor vehicle fuel" means any petroleum distillate ~~with~~ having a Reid vapor pressure of more than 27.6 kilopascals (kPa) (four pounds per square inch) and which is used to power motor vehicles.
 - 11) "Owner or operator" means any person who owns, leases, operates, manages, supervises, or controls (directly or indirectly) a gasoline dispensing operation.
 - 12) Reid vapor pressure for gasoline ~~must~~ shall be measured in ~~compliance~~ accordance with the method ASTM ~~D323-20a~~ D323-08, incorporated by reference in Section 218.112 ~~of this Part.~~
 - 13) "Vapor collection and control system" means any system certified by CARB which limits the discharge to the atmosphere of motor vehicle fuel vapors displaced during the dispensing of motor vehicle fuel into motor vehicle fuel tanks.
- b) Applicability. ~~Subsection~~ The provisions of subsection (c) ~~applies~~ shall apply to any gasoline dispensing operation which dispenses an average monthly volume of more than 10,000 gallons of motor vehicle fuel per month. Compliance must be ~~shall be required and~~ demonstrated by the deadline ~~in accordance with the schedule provided~~ in subsection (d).
- c) Vapor Collection and Control Systems. ~~An~~ No owner or operator of a gasoline dispensing operation subject to ~~the requirements of~~ subsection (b) ~~must not~~ shall cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and ~~uses~~ utilizes a vapor collection and control system which is properly installed and operated ~~under as provided in~~ this subsection (c):
- 1) Any vapor collection and control system installed, used, or maintained has been CARB certified.

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- 2) Any vapor collection and control system ~~used~~^{utilized} is maintained in ~~compliance~~^{accordance} with the manufacturer's specifications and the certification.
 - 3) No elements or components of a vapor collection and control system are modified, removed, replaced, or otherwise rendered inoperative ~~to prevent in a manner which prevents~~ the system from performing in ~~compliance~~^{accordance} with its certification and design specifications.
 - 4) A vapor collection and control system has no defective, malfunctioning, or missing components.
 - 5) Operators and employees of the gasoline dispensing operation are trained and instructed in the proper operation and maintenance of a vapor collection and control system.
 - 6) Instructions are posted in a conspicuous and visible place within the motor fuel dispensing area and describe the proper method of dispensing motor vehicle fuel with the use of the vapor collection and control system.
- d) Compliance. In conjunction with ~~the compliance provisions of~~ Section 218.105 of this Part, gasoline dispensing operations subject to ~~the requirements of~~ subsection (c) ~~must~~^{shall} comply and demonstrate compliance according to the following:
- 1) Gasoline dispensing operations that operate at any time ~~before~~^{prior to} January 1, 2014, ~~must~~^{shall} comply with subsection (c) until decommissioning is allowed and commenced in ~~compliance~~^{accordance} with subsections (i)(1) and (i)(2)(B).
 - 2) ~~Subsection~~^{The provisions of subsection} (c) ~~does~~^{shall} not apply to any new gasoline dispensing operation that commences operating for the first time on or after January 1, 2014.
- e) Except ~~under as provided in~~ subsection (d), any gasoline dispensing operation that becomes subject to ~~the provisions of~~ subsection (c) at any time ~~must~~^{shall} remain subject to ~~the provisions of~~ subsection (c) at all times.
- f) Upon request by the Agency, the owner or operator of a gasoline dispensing operation which claims to be exempt from ~~the requirements of~~ subsection (c)

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~~must~~ submit ~~records~~ to the Agency within 30 calendar days ~~after~~ from the date of the request ~~records~~ which demonstrate that the gasoline dispensing operation is ~~in fact~~ exempt.

g) Recordkeeping and Reporting:

- 1) Any gasoline dispensing operation subject to subsection (c) ~~must~~ retain at the operation copies of the registration information required ~~under~~ subsection (h).
- 2) Except ~~under as provided in~~ subsection (g)(4), records and reports required ~~under pursuant to~~ this subsection (g) ~~must~~ be made available to the Agency upon request.
- 3) Records and reports, which ~~must~~ be maintained by the owner or operator of a gasoline dispensing operation subject to subsection (c) ~~must~~ clearly demonstrate:
 - A) That a certified vapor collection and control system has been installed and tested to verify its performance according to its specifications.
 - B) That proper maintenance has been conducted in ~~compliance~~ ~~accordance~~ with the manufacturer's specifications and requirements.
 - C) The time ~~period~~ and duration of all malfunctions of the vapor collection and control system.
 - D) The motor vehicle fuel throughput of the operation for each calendar month of the previous year.
 - E) That operators and employees are trained and instructed in the proper operation and maintenance of the vapor collection and control system and informed ~~of as to~~ the potential penalties associated with ~~violating the violation of~~ any provision of this Section.
- 4) Any ~~and all~~ records relating to decommissioning ~~must~~ be maintained by the owner or operator of a gasoline dispensing operation for ~~five~~

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~~period of 5~~ years after completion of decommissioning in ~~compliance~~ ~~accordance~~ with subsection (i). For ~~purposes of~~ this subsection (g)(4), "records" include, ~~but are not limited to~~, any documents, papers, reports, test results, logs, invoices, forms, certifications, and receipts that relate to decommissioning. Records relating to decommissioning ~~must~~ ~~shall~~ be made available to the Agency or its designee within 30 minutes after the Agency's; or its designee's; request.

- h) Any gasoline dispensing operation subject to subsection (c) ~~must~~ ~~shall~~ comply with the following registration requirements:
- 1) Upon ~~installing the installation of~~ a vapor collection and control system, the owner or operator of the gasoline dispensing operation ~~must~~ ~~shall~~ submit to the Agency a registration which provides at minimum the operation name and address, signature of the owner or operator, the CARB Executive Order Number for the vapor collection and control system to be ~~used~~ ~~utilized~~, the number of nozzles (excluding diesel or kerosene) used for motor vehicle refueling, the monthly average volume of motor vehicle fuel dispensed, the location (including contact person's name, address, and telephone number) of records and reports required by this Section, and the date of completion of installation of the vapor collection and control system.
 - 2) The registration ~~must~~ ~~shall~~ be submitted to the Agency within 30 days after ~~completing~~ ~~completion of~~ the installation.
 - 3) A copy of the registration information ~~must~~ ~~shall~~ be maintained at the gasoline dispensing operation.
 - 4) Upon ~~modifying the modification of~~ an existing vapor collection and control system, the owner or operator of the gasoline dispensing operation ~~must~~ ~~shall~~ submit to the Agency a registration that details the changes to the information provided in the previous registration of the vapor collection and control system and which includes the signature of the owner or operator. The registration must be submitted to the Agency within 30 days after ~~completing~~ ~~completion of~~ the modification.
- i) Decommissioning. The owner or operator of a gasoline dispensing operation subject at any time to subsection (c) ~~must~~ ~~shall~~ decommission vapor collection and

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control systems in ~~compliance~~accordance with ~~the provisions of~~ this subsection (i).

1) Compliance

A) Beginning January 1, 2014, an owner or operator of a gasoline dispensing operation may commence decommissioning of vapor collection and control systems. The decommissioning of vapor collection and control systems must be conducted in ~~compliance~~accordance with ~~all of the provisions specified in~~ subsection (i)(2).

B) ~~By No later than~~ December 31, 2016, an owner or operator of a gasoline dispensing operation ~~must~~shall complete the decommissioning of all vapor collection and control systems in ~~compliance~~accordance with ~~all of the provisions specified in~~ subsection (i)(2).

2) Decommissioning Procedures and Standards. The decommissioning of vapor collection and control systems ~~must~~shall be conducted as follows:

A) The owner or operator of a gasoline dispensing operation ~~must~~shall complete and submit a notice of intent form; provided by the Agency; ~~to notify~~notifying the Agency of its intent to decommission. The completed notice of intent form ~~must~~shall be submitted to the Agency at least 10 days ~~before~~prior to commencing decommissioning in ~~compliance~~accordance with subsection (i)(2)(B);

B) The owner or operator of a gasoline dispensing operation ~~must~~shall decommission vapor collection and control systems in ~~accordance-~~compliance with ~~all of the procedures specified in~~ Section 14.6, except Section 14.6.14, of the Petroleum Equipment Institute's "Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP 300-09 (PEI), incorporated by reference at Section 218.112 ~~of this Part~~. In addition to Section 14.6 of the PEI, the following requirements apply to decommissioning:

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- i) All decommissioning procedures, except testing, ~~must~~shall be performed only by a contractor who is both registered with the Illinois Department of Agriculture, Bureau of Weights and Measures, in the 3-A Gasoline Pump Meters Code ~~underpursuant to~~ Section 8.1 of the Weights and Measures Act [225 ILCS 470/8.1] and licensed by the Office of the State Fire Marshal (OSFM) in the installation/retrofitting licensure module ~~underpursuant to~~ the Petroleum Equipment Contractors Licensing Act [225 ILCS 729] and implementing regulations at 41 Ill. Adm. Code 172. ~~The Any such~~ contractor ~~must~~shall also have the appropriate dispenser-manufacturer certification and training, if any. ~~If in the event that~~ product piping must be broken or an OSFM permit is otherwise required for any component of the work, the contractor ~~must~~shall ensure that the OSFM-permitted work is performed by the appropriate OSFM-licensed contractor and personnel;
 - ii) Decommissioning procedures related to testing ~~must~~shall be performed only by a contractor who is licensed by OSFM in the tank tightness testing licensure module ~~underpursuant to~~ the Petroleum Equipment Contractors Licensing Act and implementing regulations at 41 Ill. Adm. Code 172; and
 - iii) The pressure decay test required by the PEI ~~must~~shall be passed in ~~compliance accordance~~ with Appendix A of the PEI. The tie-tank test required by the PEI ~~must~~shall be conducted and passed in ~~compliance accordance~~ with CARB TP201.3C to ensure that all tanks are properly vented; and
- C) The owner or operator of a gasoline dispensing operation and the contractors that performed the decommissioning ~~must~~shall complete and sign a decommissioning checklist and certification, provided by the Agency, documenting the decommissioning procedures performed. Within 30 days after completion of the decommissioning procedures ~~underspecified by~~ subsection (i)(2)(B), the owner or operator ~~must~~shall provide the completed checklist and certification and the test results to the Agency.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Z: DRY CLEANERS

Section 218.607 Standards for Petroleum Solvent Dry Cleaners

- a) The owner or operator of a petroleum solvent dry cleaning dryer ~~must~~shall either:
 - 1) Limit ~~VOM~~ emissions ~~of VOM~~ to the atmosphere to an average of 3.5 ~~kg~~kilograms of VOM per 100 ~~kg~~kilograms dry weight of articles dry cleaned; ~~or~~
 - 2) Install and operate a solvent recovery dryer ~~so in a manner such~~ that the dryer remains closed and the recovery phase continues until a final solvent flow rate of 50 milliliters per minute is attained.
- b) The owner or operator of a petroleum solvent filtration system ~~must~~shall either:
 - 1) Reduce the VOM content in all filtration wastes to 1.0 ~~kg~~kilogram or less per 100 ~~kg~~kilograms dry weight of articles dry cleaned, before disposal, and exposure to the atmosphere; ~~or~~
 - 2) Install and operate a cartridge filtration system; and drain the filter cartridges in their sealed housings for ~~at least eight hours~~8 hours or more before their removal.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.608 Operating Practices for Petroleum Solvent Dry Cleaners

~~To~~In order to minimize fugitive solvent emissions, the owner or operator of a petroleum solvent dry cleaning source ~~must~~shall employ good housekeeping practices, including the following:

- a) General Housekeeping Requirements
 - 1) Equipment containing solvent (washers, dryers, extractors, and filters) ~~must~~shall remain closed at all times except during load transfer and maintenance. Lint filter and button trap covers ~~must~~shall remain closed except when solvent-laden material is being removed.

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- 2) Cans, buckets, barrels, and other containers of solvent or ~~of~~ solvent-laden material ~~must~~ be covered except when in use.
 - 3) Solvent-laden material ~~must~~ be exposed to the atmosphere ~~only~~ for ~~only~~ the minimum time necessary for load transfer.
- b) ~~Installing and operating~~ ~~Installation and operation of~~ equipment:
- 1) All cartridge filters ~~must~~ be enclosed and operated in ~~compliance~~ ~~accordance~~ with the procedures and specifications recommended by the manufacturer for the cartridge filter. After installation, the cartridges ~~must~~ be inspected, monitored, and maintained in ~~compliance~~ ~~accordance~~ with the manufacturer's recommendations; and
 - 2) Vents on containers for new solvent and ~~for~~ solvent-containing waste ~~must~~ be constructed and maintained ~~so as~~ to minimize solvent vapor emissions. Criteria for ~~minimizing~~ ~~the minimization of~~ solvent vapor emissions include ~~eliminating~~ ~~the elimination of~~ solvent buckets and barrels standing open to the atmosphere, and ~~repairing~~ ~~the repair of~~ gaskets and seals that expose solvent-rich environments to the atmosphere, to be determined through visual inspection.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.609 Program for Inspection and Repair of Leaks

- a) The owner or operator of a petroleum solvent dry cleaning source ~~must~~ conduct the following visual inspections on a weekly basis:
 - 1) Washers, dryers, solvent filters, settling tanks, vacuum stills, and containers and conveyors of petroleum solvent ~~must~~ be inspected for visible leaks of solvent liquid.
 - 2) Pipes, hoses, and fittings ~~must~~ be inspected for active dripping or dampness.
 - 3) Pumps and filters ~~must~~ be inspected for leaks around seals and access covers.

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- 4) Gaskets and seals ~~must~~shall be inspected for wear and defects.
- b) Leaks of petroleum solvent liquid and vapors ~~must~~shall be repaired within three working days ~~after~~of detection, unless necessary replacement parts are not on site.
 - 1) If necessary, repair parts ~~must~~shall be ordered within three working days ~~after detecting~~of detection of the leak.
 - 2) The leak ~~must~~shall be repaired within three days ~~after~~of delivery of necessary parts.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.610 Testing and Monitoring

- a) Compliance with Sections 218.607(b)(2), 218.608₂ and 218.609 ~~must of this Part shall~~ be determined by visual inspection; and
- b) Compliance with Sections 218.607(a)(2) and (b)(1) ~~must of this Part shall~~ be determined by methods ~~described in EPA-450/3-82-009 (1982)~~₂ incorporated by reference in Section 218.112 ~~of this Part~~.
- c) If a control device is used to comply with Section 218.607(a)(1) ~~of this Part~~, then compliance ~~must~~shall be determined using 40 CFR ~~60. Appendix A-760 Appendix A, Method 25-(1984)~~₂ incorporated by reference in Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.611 Applicability for Petroleum Solvent Dry Cleaners

~~The provisions of~~ Sections 218.607 through 218.610 ~~of this Part shall~~ apply to petroleum solvent dry cleaning sources that:

- a) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; and are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained in a federally enforceable permit or a SIP revision; or~~
- b) Have a potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART AA: PAINT AND INK MANUFACTURING

Section 218.620 Applicability

- a) This Subpart ~~applies~~shall apply to all paint and ink manufacturing sources which:
- 1) Include process emission units not subject to Subparts B, E, F (excluding Section 218.204(I) ~~of this Part~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, ~~Z~~ or BB ~~of this Part~~; and which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM if no air pollution control equipment were used; and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without in the absence of air pollution control equipment; through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision; or
 - 2) Produce more than 7,570,820 ~~l~~ (2,000,000 gal) per calendar year of paint or ink formulations; which contain less than ~~10%~~10 percent (by weight) water; and ink formulations not containing as the primary solvents water, Magic oil, or glycol.
- b) This Subpart ~~shall also apply~~applies to all paint and ink manufacturing sources which:
- 1) Have the potential to emit at least an aggregate 22.7 Mg (25 tons) ~~or more~~ of VOM per year, ~~in aggregate~~, from process emission units that:
 - A) Are not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~; or
 - B) Are not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business

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machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCM I batch processing, ~~VOL~~ volatile organic liquid storage tanks, and clean-up solvents operations; or

- 2) Produce more than 1,892,705 ~~l~~ (500,000 gal) per calendar year of paint or ink formulations which contain less than 10% (by weight) water; and ink formulations not containing as the primary solvents water, Magic oil, or glycol.

- c) For ~~the purposes of~~ this Subpart, VOM emissions in the absence of air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.621 Exemption for Waterbase Material and Heatset-Offset Ink

~~The requirements of~~ Sections 218.624, and 218.625, and ~~Section~~ 218.628(a) ~~do of this Part shall~~ not apply to equipment while it is being used to produce either:

- a) Paint or ink formulations which contain at least 10% ~~10 percent or more~~ (by weight) water; or
- b) Inks containing Magic oil and glycol as the primary solvent.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.624 Open-Top Mills, Tanks, Vats, or Vessels

~~A~~ No person ~~must not~~ shall operate an open-top mill, tank, vat, or vessel with a volume of more than 45 l (12 gal) ~~to produce for the production of~~ paint or ink unless:

- a) The mill, tank, vat, or vessel is equipped with a cover which completely covers the mill, tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft. ~~The~~ Such cover ~~must~~ shall extend at least 1.27 cm (0.5 in) beyond the outer rim of the opening or be attached to the rim.

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- b) The cover remains closed except when production, sampling, maintenance, or inspection procedures require access.
- c) The cover is maintained in good condition ~~so such~~ that, when in place, it maintains contact with the rim of the opening for at least ~~90%90 percent~~ of the circumference of the rim.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.625 Grinding Mills

- a) ~~A~~No person ~~must not~~shall operate a grinding mill ~~to produce for the production of~~ paint or ink which is not maintained in ~~compliance~~accordance with the manufacturer's specifications.
- b) ~~A~~No person ~~must not~~shall operate a grinding mill fabricated or modified after ~~August 16, 1991, the effective date of this Subpart~~ which is not equipped with fully enclosed screens.
- c) The manufacturer's specifications ~~must~~shall be kept on file at the plant by the owner or operator of the grinding mill and be made available to any person upon verbal or written request during business hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.626 Storage Tanks

- a) The owner or operator ~~must~~shall equip tanks storing VOL with a vapor pressure greater than 10 kPa (1.5 psi) at ~~20 °C (68 °F)~~20°C (68°F) with pressure/vacuum conservation vents set as a minimum at ~~±±~~±0.2 kPa (0.029 psi). These controls ~~must~~shall be operated at all times. An alternative air pollution control system may be used if it ~~yields results in~~ a greater emission reduction than these controls. Any alternative control system can be allowed only if approved by the Agency and approved by ~~the~~USEPA as a SIP revision.
- b) Stationary VOL storage containers with a capacity greater than 946 ~~l~~ (250 gal) ~~must~~shall be equipped with a submerged-fill pipe or bottom fill. These controls ~~must~~shall be operated at all times. An alternative control system can be allowed only if approved by the Agency and approved by ~~the~~USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218.628 Leaks

The owner or operator of a paint or ink manufacturing source ~~must~~shall, ~~for the purpose of detecting leaks,~~ conduct ~~the following~~an equipment monitoring program ~~to detect leaks as set forth below:~~

- a) Each pump ~~must~~shall be checked by visual inspection each calendar week for ~~indications of leaks indicated by, that is,~~ liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, the pump ~~must~~shall be repaired as soon as practicable, but ~~within no later than~~ 15 calendar days after the leak is detected.
- b) Any pump, valve, pressure relief valve, sampling connection, open-ended valve and flange, or connector containing a fluid which is at least ~~10% 10 percent~~ VOM by weight and which appears to be leaking on the basis of sight, smell, or sound ~~must~~shall be repaired as soon as practicable, but ~~within no later than~~ 15 calendar days after the leak is detected.
- c) A ~~weather proof,~~ readily visible weather-proof tag, in bright colors such as red or yellow, and bearing an identification number and the date on which the leak was detected, ~~must~~shall be attached to leaking equipment. The tag may be removed when the equipment has been repaired, including adjustment or other alteration upon repair, that is, when the equipment is adjusted or otherwise altered to allow operation without leaking.
- d) When a leak is detected, the owner or operator ~~must~~shall record the date of detection and repair, and the record ~~must~~shall be retained at the source for at least two years from the date of each detection or each repair attempt. The record ~~must~~shall be made available to any person upon verbal or written request during business hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.630 ~~Cleanup~~Clean-Up

- a) ~~A~~No person ~~must not~~shall clean paint or ink manufacturing equipment with organic solvent unless the equipment being cleaned is completely covered or enclosed except for an opening no larger than necessary to allow safe clearance

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for ~~properly operating~~proper operation of the cleaning equipment, considering the method and materials being used.

- b) ~~A~~No person ~~must~~shall store organic wash solvent only in ~~either than~~ closed containers, unless closed containers are demonstrated to be a safety hazard, and ~~must~~shall dispose of organic wash solvent so that only up to 20% in a manner such that more than 20 percent by weight is allowed to evaporate into the atmosphere.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.636 Compliance Schedule

Every owner or operator of a source subject to the control requirements of this Subpart ~~must~~shall comply with the requirements ~~of it thereof~~ on and after ~~an applicable~~a date ~~undereonsistent with~~undereonsistent with Section 218.106 ~~of this Part~~.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.637 Recordkeeping and Reporting

- a) Upon request by the Agency, the owner or operator of an emission source which claims to be exempt from ~~the requirements of~~ this Subpart ~~must~~shall submit records to the Agency within 30 calendar days ~~after from~~ the date of the request which document that the emission source is ~~in fact~~ exempt from this Subpart. These records ~~shall~~ include ~~(but are not limited to)~~ the percent water (by weight) in the paint or ink being produced and the quantity of Magic oil, glycol, and other solvents in the ink being produced.
- b) Every owner or operator of a source which is subject to ~~the requirements of~~ this Subpart ~~must~~shall maintain all records necessary to demonstrate compliance with ~~it those requirements~~ at the source for three years.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART BB: POLYSTYRENE PLANTS

Section 218.640 Applicability

~~This~~The provisions of this Subpart ~~applics~~shall apply to polystyrene plants which:

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- a) ~~Use~~~~Which use~~ continuous processes to manufacture polystyrene - polybutadiene co-polymer; and
- b) ~~Fall~~~~Which fall~~ within Standard Industrial Classification Group No. 282, Industry No. 2821, except that the manufacture of polystyrene resins need not be the primary manufacturing process at the plant.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.642 Emissions Limitation at Polystyrene Plants

~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the emissions of VOM from the material recovery section to exceed 0.12 kg of ~~VOM~~~~Volatile Organic Material~~ per ~~1,000~~~~1000~~ kg of polystyrene resin produced.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.644 Emissions Testing

- a)) Upon a reasonable request by the Agency, the owner or operator of a polystyrene plant subject to this Subpart ~~must~~~~shall~~ at ~~its~~~~his~~ own expense demonstrate compliance by ~~use of the following method:~~ 40 CFR ~~60~~~~Appendix A-760~~, ~~Appendix A~~, Method 25 - Determination of Total Gaseous Non-Methane Organic Emissions as Carbon ~~(1984)~~, incorporated by reference in Section 218.112 ~~of this Part~~.
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must~~~~shall~~ notify the Agency of that intent ~~at least~~~~not less than~~ 30 days before the planned initiation of the ~~test~~~~tests~~ so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section 218.660 Applicability

- a) Potential to emit:
 - 1) A source is subject to this Subpart if it is not subject to ~~the requirements of~~ Subparts PP, QQ, RR, and TT and:

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- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, AA or BB ~~of this Subpart~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, volatile organic liquid storage tanks, and clean-up solvent operations.
- 2) If a source is subject to this Subpart under subsection (a)(1) as provided above, the requirements of this Subpart apply~~as provided above, the requirements of this Subpart apply~~ to a source's polyester resin products manufacturing process emission units and associated handling of materials, cleanup activity, and formulation activity, if any, which are not regulated by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, or DD ~~of this Subpart~~.
- b) If a source ceases to fulfill the criteria of subsection (a) ~~above, the requirements of this Subpart continue~~above, the requirements of this Subpart continue to apply to a polyester resin products manufacturing process emissions unit which was subject to the control requirements of Section 218.666 ~~of this Part~~.
 - c) For ~~the purposes of~~ this Subpart, an emission unit must~~shall~~ be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart, or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.666 Control Requirements

- a) Every owner or operator of a polyester resin products manufacturing process subject to this Subpart must~~shall~~ comply with the operating requirements in this section~~below~~:
- 1) Any of the following:
 - A) Use polyester resin material with a monomer content as follows:

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- i) For polyester resin materials used for products requiring corrosion resistant or ~~fire-retardant~~ materials, a monomer content of ~~up to no more than~~ 48% by weight as applied;
 - ii) For polyester resin materials ~~used~~ for products requiring a tensile strength of 10,000 psi or more, including tooling resins, a monomer content of ~~up to no more than~~ 48% by weight as applied;
 - iii) For clear gel coat, a monomer content of ~~up to no more than~~ 50% by weight as applied;
 - iv) For other pigmented gel coats, a monomer content of ~~up to no more than~~ 45% by weight as applied; or
 - v) For all other polyester resin materials, a monomer content of ~~up to no more than~~ 35% by weight as applied.
- B) Use a closed-mold system or pultrusion system which will result in less than 4% weight loss of polyester resin materials;
- C) Use vapor suppressed polyester resin approved by the Agency in the source's permit ~~so such~~ that weight loss from VOM emissions does not exceed 60 grams per square meter of exposed surface area during molding; or
- D) Use any materials or processes that are demonstrated to the satisfaction of the Agency to achieve VOM emission levels equivalent to any of the above. This alternative must be approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.
- 2) For spraying operations, in addition to the requirements ~~specified in subsection (a)(1) Section 218.666(a)(1) above~~, use only high-volume low pressure (HVLP), airless, air-assisted airless, or electrostatic spray equipment, except for touch-up and repair using a hand-held, air-atomized spray gun which has a container for polyester resin material as part of the gun.

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- b) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart ~~must~~shall use closed containers for all polyester resin materials, cleaning materials which contain VOM (including waste cleaning materials), and other materials that contain VOM (including waste resin materials) ~~in such a manner as to~~ effectively control VOM emissions to the atmosphere and in ~~compliance~~accordance with the practices ~~described~~ in the certification ~~under~~pursuant to Section 218.670(b)(2)(A).
- c) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart which formulates polyester resin material at the source ~~must~~shall comply with the following operating requirements:
- 1) A cover ~~must~~shall be in place on any tank, vat, or vessel with a capacity greater than 7.5 ~~liters~~ (2 ~~gal~~gallons), including a container in which polyester resin materials are delivered to the source, while polyester resin materials are being formulated. The cover ~~must~~shall:
 - A) Completely cover the tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft;
 - B) Extend at least 1.27 cm (0.5 inch) beyond the outer rim of the opening or be attached to the rim;
 - C) Remain closed except when adding or removing material or when sampling or inspection procedures require access; and
 - D) Be maintained in good condition ~~so~~such that, when in place, the cover maintains contact with the rim of the opening for at least 90% of the circumference of the rim.
 - 2) Carry out emissions ~~must~~shall be minimized when a mixer used for formulation of polyester resin material is being removed from a tank, vat, or vessel containing polyester resin material by allowing the material retained on the mixer blades to drain back into the tank, vat, or vessel before the mixer is completely removed from the tank, vat, or vessel.
- d) Any owner or operator of polyester resin products manufacturing processes subject to this Subpart which as a group use more than 4 gallons per day of

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cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) ~~must~~shall use a solvent recovery system for ~~these~~such materials. Solvent recovery may be done at the source or by using an off-site commercial solvent recovery service. The waste residue from a solvent recovery system located at the source ~~must~~shall not contain more than 20% VOM by weight.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.667 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~shall comply with the requirements ~~thereof~~ on and after ~~an applicable~~the date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.668 Testing

a) Testing Methods-

- 1) The VOM content of fresh cleaning materials ~~must~~shall be determined from supplier data or by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 ~~of this Part~~.
- 2) The VOM content of waste residue from a solvent recovery system ~~must~~shall be determined by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 ~~of the Part~~.
- 3) The monomer content of polyester resin materials ~~must~~shall be determined:
 - A) From supplier data and operating data;
 - B) By sampling and analysis by the methods ~~set forth~~in SCAQMD Method 312-91, incorporated by reference in Section 218.112 ~~of this Part~~; or
 - C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.

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- 4) The weight loss from polyester resin material in a closed-mold system or pultrusion system during molding mustshall be determined:

- A) From supplier data and operating data;
- B) By testing of VOM emissions by the methods set forth in Section 218.105; or
- C) By material balance as follows: Separately weigh the polyester resin materials and the reinforcement materials before they are introduced into the mold. Weigh the molded product after it has cooled so that it can be manually handled, but no sooner than one hour after removal of the product from the mold. The percent weight loss mustshall be determined according to the following equation:

$$PWL = \frac{1 - (C - B) \times 100}{A}$$

Where,

PWL = Percent Weight Loss;

A = Weight of polyester resin materials;

B = Weight of reinforcement material;

C = Weight of cooled molded product after at least one hour elapsed time.

- D) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.
- 5) The weight loss from a vapor suppressed polyester resin material square meter of exposed surface area mustshall be determined:
- A) From supplier data and operating data;
- B) By sampling and analysis by the methods set forth in SCAQMD Method 309-91, incorporated by reference in Section 218.112; or
- C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.

Commented [SKA126]: "material" is on file

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- 6) ~~If there is~~~~In the event of~~ a difference between data obtained by sampling and analysis and other data, the data from sampling and analysis ~~must~~~~shall~~ govern.
- b) When in the opinion of the Agency it is necessary to conduct sampling and analysis to demonstrate compliance with Section 218.668 ~~of this Part~~, the owner or operator of a polyester resin products manufacturing process subject to ~~the requirements of~~ this Subpart ~~must~~~~shall~~, at ~~its~~~~his~~ own expense, conduct ~~the~~~~such~~ sampling and analysis in ~~compliance~~~~accordance~~ with the applicable test methods and procedures ~~specified in subsection (a) above~~. The Agency's decision to invoke this subsection may be based on ~~such~~ factors including, ~~but not limited to~~, a change in operation of the polyester resin products manufacturing process, or a reasonable belief that a previous test resulted in erroneous data.
- c) Nothing in this Section ~~limits~~~~shall limit~~ the authority of USEPA ~~under~~~~pursuant to~~ the ~~CAA~~~~Clean Air Act~~, as amended, to require sampling and analysis.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.670 Recordkeeping and Reporting for Exempt Emission Units

Upon request by the Agency, the owner or operator of a polyester resin manufacturing process which is exempt from ~~the requirements of~~ Subpart CC ~~must~~~~of this Part shall~~ submit to the Agency records that document that the polyester resin product manufacturing process is exempt from those requirements. These records ~~must~~~~shall~~ be submitted within 30 calendar days ~~after~~~~from~~ the date of the request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.672 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of a polyester resin products manufacturing process which is subject to ~~the requirements of~~ this Subpart ~~must~~~~shall~~ comply with the following:
- 1) By ~~an applicable~~ date ~~under~~~~consistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a process subject to this Subpart, the owner or operator of the subject process ~~must~~~~shall~~ certify to the Agency that the process will be in compliance with Section 218.666(a) ~~of this Subpart~~ on

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and after ~~the applicable~~ date ~~under~~~~consistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date as demonstrated by testing in ~~compliance~~ ~~accordance~~ with Section 218.668 ~~of this Subpart~~. ~~The~~~~Such~~ certification ~~must~~~~shall~~ include:

- A) The name and identification number of each polyester resin products manufacturing process at the source;
- B) The name and identification number of each polyester resin material used in these processes, the means by which it may be applied, and the classification of the polyester resin material under Section 218.666(a)(1)(A) ~~of this Subpart~~;
- C) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight), and other relevant data to show compliance with the operating requirement, including:
 - i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or ~~fire-retardant~~~~fire-retardant~~ materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for ~~the~~~~such~~ classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, ~~of this Subpart~~;
 - ii) For each polyester resin material which is applied in a closed-mold or pultrusion system ~~so as~~ to comply with Section 218.666(a)(1)(B) ~~of this Subpart~~, the weight loss from the polyester resin material (percent by weight) during molding;
 - iii) For each polyester resin material which is vapor suppressed ~~so as~~ to comply with Section 218.666(a)(1)(C) ~~of this Subpart~~, the type and content (percent by weight) of catalyst in the materials, the maximum process temperature for resin application, the maximum gel time, and the weight loss (grams per square meter exposed surface) during ~~molding~~; and

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- iv) For each polyester resin material which is approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision ~~so as~~ to comply with Section 218.666(a)(1)(D) ~~of this Subpart~~, information showing the VOM emissions level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B), or (C).
 - D) A description of the testing which was performed, in ~~compliance~~ ~~accordance~~ with Section 218.668 ~~of this Part~~, to determine the monomer content of polyester resin materials and the information in subsections (a)(1)(C)(ii), (iii), and (iv) and (a)(1)(D) ~~above~~, including data, calculations, and descriptions and results of the sampling and analysis that the owner or operator has relied upon to show compliance with Sections 218.666(a)(1) and (2) ~~of this Subpart~~;
 - E) For spraying operations, the equipment for spraying polyester resin materials and the equipment for touch up and repair;
 - F) The method by which the owner or operator will create and maintain records required in subsections (b)(2) and (b)(3) ~~below~~; and
 - G) An example of the format in which the records required in subsections (b)(2) and (b)(3) ~~below~~ will be kept.
- 2) On and after ~~an applicable~~ ~~a~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after initial start-up date, the owner or operator of a subject process ~~must~~ ~~shall~~ collect and record the following information to maintain a complete record of all polyester resin materials which are used by such polyester resin products manufacturing process. This information ~~must~~ ~~shall~~ be maintained at the source for ~~a period of~~ three years:
- A) The name and identification number of each polyester resin material used in the process;
 - B) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the

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material (percent by weight), and other relevant data to show compliance with the operating requirement, including:

- i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or ~~fire-retardant~~~~fire-retardant~~ materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for ~~the~~~~such~~ classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, ~~of this Subpart~~;
 - ii) For each polyester resin material which is applied in a closed-mold or pultrusion system ~~so as to comply with~~ Section 218.666(a)(1)(B) ~~of this Subpart~~, the weight loss from the polyester resin material (percent by weight) during molding;
 - iii) For each polyester resin material which is vapor suppressed ~~so as to comply with~~ Section 218.666(a)(1)(C) ~~of this Subpart~~, the type and content (percent by weight) of catalyst in the material, the maximum process temperature for resin application, the maximum gel time, and the weight loss (grams per square meter exposed surface) during molding; and
 - iv) For each polyester resin material which is approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision ~~so as to comply with~~ Section 218.666(a)(1)(D) ~~of this Subpart~~, information showing the VOM emission level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B), or (C) ~~of this Subpart~~;
- C) A description of the testing which was performed, in ~~compliance~~~~accordance~~ with Section 218.668 ~~of this Part~~, to determine the monomer content of polyester resin materials and the information in subsections (a)(1)(C)(ii), (iii), and (iv) and (a)(1)(D) ~~above~~, including data, calculations, and descriptions and results of the sampling and analysis that the owner or operator has

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relied upon to show compliance with Section 218.666(a)(1) ~~of this Subpart;~~

- D) The processes and applications for which each polyester resin material may be used in compliance with applicable operating requirements, including:
- i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or ~~fire-retardant~~ ~~fire-retardant~~ material or a material used for products requiring tensile strength of 10,000 psi or more which is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i) or (ii), respectively, ~~of this Subpart,~~ the required products or circumstances for the materials' use;
 - ii) For each polyester resin material which is applied in a closed-mold or pultrusion system ~~so as to comply with~~ Section 218.666(a)(1)(B) ~~of this Subpart,~~ the required process temperature and minimum mold cycle time or maximum pultrusion speed;
 - iii) For each polyester resin material which is vapor suppressed ~~so as to comply with~~ Section 218.666(a)(1)(C) ~~of this Subpart,~~ the required thickness of the manufactured product, the type and amount of catalyst in the resin, and the maximum process temperature and maximum gel time; and
 - iv) For each polyester resin material which is approved by the Agency and approved by ~~the~~ USEPA as a SIP revision ~~so as to comply with~~ Section 218.666(a)(1)(D) ~~of this Subpart,~~ the required process operating conditions or product specifications; and
- E) For each polyester resin material which is applied in a spraying operation, the type of spray equipment with which the material will be applied ~~so as to comply with~~ Section 218.666(a)(2) ~~of this Subpart.~~

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- 3) On and after ~~an applicable~~ the date ~~under~~~~consistent with~~ Section 218.106-~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject process ~~must~~~~shall~~ collect and record all of the following information each day for each process and maintain the information at the source for ~~a period of~~ three years:
 - A) The name, identification number, and amount of each polyester resin material applied on each process; and
 - B) The specific data ~~under~~~~identified pursuant to~~ Section 218.672(a)(2)(D) ~~of this Subpart~~ to confirm that the polyester resin material was applied in ~~such a manner~~ ~~to comply~~~~that it complied~~ with the applicable operating requirement.
- 4) On and after ~~an applicable~~ a date ~~under~~~~consistent with~~ Section 218.106-~~of this Part~~, the owner or operator of a subject process ~~must~~~~shall~~ notify the Agency:
 - A) Of any violation of the operating requirements of this Subpart by sending a copy of ~~the~~~~such~~ record to the Agency within 30 days ~~after~~~~following the occurrence of~~ the violation; and
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from ~~one operating requirement among~~ Section 218.666(a)(1)(A), (B), (C), or (D) ~~of this Subpart~~ to another operating requirement, of compliance with all requirements of subsection (a)(1)-~~above~~. Upon changing the method of compliance with this Subpart from one operating requirement to another, the owner or operator ~~must~~~~shall~~ comply with all applicable requirements of subsection (a)-~~above~~.
- b) Any owner or operator of a polyester resin product manufacturing process subject to ~~the requirements of~~ Subpart CC ~~must~~~~of this Part shall~~ comply with the following:
 - 1) On ~~an applicable~~ a date ~~under~~~~consistent with~~ Section 218.106 ~~of this Part~~ or upon initial start-up of a new source, the owner or operator of the source ~~must~~~~shall~~ certify to the Agency that the source will be in compliance with Sections 218.666(b) and (d) ~~of this Subpart~~ on and after ~~an applicable~~ a date ~~under~~~~consistent with~~ Section 218.106 ~~of this Part~~, or

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on or after the initial start-up date. ~~The~~Such certification ~~must~~shall include:

- A) A description of the handling practices for polyester resin material, cleaning materials which contain VOM₁ and waste materials which contain VOM₁ including the use of closed containers and a statement that these practices effectively control VOM emissions to the atmosphere; and
 - B) The usage on a daily basis of each cleanup material which contains VOM, the VOM content per liter of each ~~such~~ material₁ and whether a reclamation system is required by Section 218.666(d) ~~of this Subpart~~ for ~~the~~such material or will be used; a description of the solvent recovery practices if recovery is required or will be used; and a statement that₁ where a solvent recovery system is required and will be at the source, ~~that~~ the waste residue contains 20% or less VOM by weight.
- 2) On and after ~~an applicable~~a date ~~under~~consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of the process ~~must~~shall collect and record all the following information and maintain the information at the source for ~~a period of~~ three years:
- A) The date, time₁ and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any;
 - B) Information on a daily basis confirming the proper use of a recovery system if one is required or is used, including operation of a recovery system at the source to produce a waste residue that is 20% or less VOM by weight and information identifying any observation of noncompliance; and
 - C) Information on a daily basis on the use of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) if a recovery system is not required or is not used. This information ~~must~~shall include the name, identification number, amount used₁ and VOM content of each ~~such~~ cleaning material.

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- 3) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject process ~~must~~shall notify the Agency:
- A) Of a violation of ~~the requirements of~~ this Subpart with respect to handling practices and solvent recovery for cleaning materials by sending a copy of all such records to the Agency within 30 days ~~after following~~ the calendar quarter in which ~~the such~~ violation occurred; or
- B) Within 30 calendar days ~~after~~ changing the handling practices for polyester resin materials, cleaning materials, and waste materials or changing source practice with respect to a solvent recovery system for cleaning materials, describing the change.
- c) Any owner or operator of a polyester resin product manufacturing process subject to ~~the requirements of~~ this Subpart that formulates polyester resin material at the source ~~must~~shall comply with the following:
- 1) On ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or upon initial start-up of a new emission unit, the owner or operator of the source ~~must~~shall certify to the Agency that the emission unit will be in compliance with Section 218.666(c) ~~of this Subpart~~ on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date. ~~The Such~~ certification ~~must~~shall include:
- A) A description of the equipment used for formulation of polyester resin materials, including the types of tanks, vats, and vessels and their size and the types of mixers and the covers associated with this equipment; and
- B) A description of the practices used to minimize VOM emissions to the atmosphere from formulation activity, including the use and maintenance of covers on tanks, vats, and vessels and drainage of mixers.
- 2) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of

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the process ~~must~~shall collect and record all the following information and maintain the information at the source for ~~a period of~~ three years:

- A) The date, time, and duration of scheduled inspections to confirm the proper use and maintenance of covers on vats, vessels, and tanks and proper drainage of mixers and any instance of improper use, with description of actual practice and corrective action taken, if any; and
 - B) A maintenance log for covers on vats, vessels, and tanks, detailing all routine and non-routine maintenance performed and initial use of new covers, including dates of such activities.
- 3) On and after ~~an applicable~~ date ~~under~~consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject process ~~must~~shall notify the Agency:
- A) Of a violation of ~~the requirements of~~ this Subpart with respect to ~~formulating~~formulation of polyester resin material by sending a copy of all such records to the Agency within 30 days ~~after following~~ the calendar quarter in which ~~the~~such violation occurred; ~~or~~
 - B) Within 30 calendar days ~~after~~of changing the handling practices for ~~formulating~~formulation of polyester resin materials, describing the change.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART DD: AEROSOL CAN FILLING

Section 218.680 Applicability

- a) Potential to emit:
 - 1) A source is subject to this Subpart if it is not subject to ~~the requirements of~~ Subparts PP, QQ, RR, and TT and has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units that are:

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- A) Not regulated by Subparts B, E, F (excluding Section 218.204(I)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, ~~or BB of this Subpart~~; or
 - B) Not ~~included~~including in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~volatile organic liquid storage tanks, and ~~clean-up~~clean-up solvent operations.
- 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above~~, the requirements of this Subpart ~~shall~~ apply to a source's aerosol can filling lines and propellant booster pumps, which are not regulated by or addressed by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, ~~or CC of this Subpart~~.
- b) If a source ceases to meet the criteria of subsection (a), ~~the requirements of this Subpart~~ continues~~shall continue~~ to apply to an aerosol can filling line and propellant booster pump which was subject to the control requirements of Section 218.686 ~~of this Part~~.
- c) For ~~the purposes of~~ this Subpart, an emission unit must~~shall~~ be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.686 Control Requirements

- a) Every owner or operator of an aerosol can filling line that is filling cans with a propellant which contains propane, butane, or other VOM subject to this Subpart must~~shall~~ comply with the following requirements:
 - 1) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emission of at least 81% from the propellant filling area, also known as the gas house, on each line; or

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- 2) As an alternative to compliance with subsection (a)(1)~~of this Subpart~~, the owner or operator of an aerosol can filling line ~~must~~shall comply with the following requirements:
 - A) Fill all cans, other than trial runs of cans to verify product quality, using through-the-valve fill or enhanced under-the-cup fill to minimize loss of VOM propellant; ~~or~~ use a reclamation system to recover surplus VOM propellant; or use another system approved in a federally enforceable permit which achieves at least 75% reduction of the emissions of under-the-cup fill;
 - B) Fill on a monthly basis at least 90% of cans filled on ~~thesuch~~ aerosol can filling lines that are capable of being filled by the through-the-valve method with through-the-valve fill. All cans ~~must~~shall be considered capable of being filled by the through-the-valve method unless, as demonstrated by the records required by Section 218.692(b)(2)~~of this Part~~, the valve assembly is not adaptable to the through-the-valve fill; through-the-valve fill cannot be accomplished with at least 85% of the under-the-cup operating rate in cans per minute of filling; or performance, ~~i.e. that~~ is the discharge of the can's contents to accomplish its intended function, is negatively affected by through-the-valve fill when considering factors such as propellant solubility in the can's contents and the amount of turbulence which the contents may experience during propellant filling; and
 - C) Verify proper filling of cans with a VOM monitoring system in the gas house. This system may monitor VOM concentration as a percentage of the lower explosive limit.
- b) Every owner or operator of a propellant booster pump associated with an aerosol can filling line subject to this Subpart ~~must~~shall comply with one of the following requirements:
 - 1) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emission of at least 81% from each pump. If the pumps are located in the gas house of a filling line, compliance with this reduction may be achieved by the combination of the pumps located in the gas house and the propellant filling area; or

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- 2) Work practices to prevent leaks from a pump, meaning a loss of VOM from the pump above background levels. Work practices ~~must~~shall include changing seals every four ~~(4)~~ weeks and plungers every 16 weeks unless a pump monitoring procedure approved in a federally enforceable permit establishes otherwise.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.688 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance or verify effectiveness with Section 218.686 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of this Subpart~~ must~~shall~~, at its own expense, conduct ~~the~~such tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~.
- b) Nothing in this Section ~~limits~~shall limit the authority of the USEPA ~~under~~pursuant to the CAA ~~Clean Air Act~~, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.690 Recordkeeping and Reporting for Exempt Emission Units

Upon request by the Agency, the owner or operator of an aerosol can filling line or propellant booster pump which is exempt from ~~the requirements of Subpart DD~~ must~~of this Part shall~~ submit to the Agency records documenting that the aerosol can filling line or propellant booster pump is exempt from those requirements. These records must~~shall~~ be submitted within 30 calendar days ~~after~~from the date of the request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.692 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of an aerosol can filling line or propellant booster pump which is subject to ~~the requirements of Subpart DD of this Part~~ and complying by ~~using means of the use of~~ emission capture and control equipment must~~shall~~ comply with the following:
- 1) By ~~an applicable~~a date ~~under~~consistent with Section 218.106 ~~of this Part~~, or upon initial start-up of an aerosol can filling line or propellant booster

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pump, the owner or operator of the subject line or pump must~~shall~~ demonstrate to the Agency that the subject line or pump will be in compliance on and after an applicable~~a~~ date undereonsistent with~~Section 218.106 of this Part,~~ or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.

- 2) On and after an applicable~~a~~ date undereonsistent with~~Section 218.106 of this Part,~~ or on and after the initial start-up date, the owner or operator of a subject line or pump must~~shall~~ collect and record all of the following information each day and maintain the information at the source for a~~period of~~ three years:
 - A) Control device monitoring data;
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated lines and pumps; and
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after an applicable~~a~~ date undereonsistent with~~Section 218.106 of this Part,~~ the owner or operator of a subject line or pump must~~shall~~ notify the Agency:
 - A) Of a violation of the requirements of~~Subpart DD of this Part~~ by sending a copy of any records showing the violation to the Agency within 30 days after~~following the occurrence of~~ the violation; and
 - B) At least 30 calendar days before changing the method of compliance with Subpart DD of this Part~~from using the use of~~ capture systems and control devices to methods of filling cans, including use of a reclamation system or pump work practice, the owner or operator must~~shall~~ comply with the requirements of~~subsections (b)(1) or (c)(1) below,~~ respectively. Upon changing the method of compliance with Subpart DD of this Part~~from using the use of~~ capture systems and control devices to compliance with the methods of filling cans or work practices, the owner or

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operator ~~must~~ comply with ~~all requirements of~~ subsections (b) or (c) ~~below~~, respectively.

- b) Any owner or operator of an aerosol can filling line which is subject to ~~the requirements of Subpart DD of this Part~~ and complying by ~~using means of~~ the methods of filling cans, including ~~using use of~~ a reclamation system, ~~must~~ comply with the following:
- 1) By ~~an applicable~~ date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a line subject to Subpart DD ~~of this Part~~, the owner or operator of the subject line ~~must~~ certify to the Agency that the line will be in compliance on and after ~~an applicable~~ date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~The~~ ~~Such~~ certification ~~must~~ include:
 - A) The name and identification number of each line which will comply by means of the methods of filling cans;
 - B) The name and manufacturer's description of the can filling system;
 - C) Calculations and other data to demonstrate the propellant losses with these systems, including a description and results of any test the owner or operator has performed;
 - D) Technical and production data, along with calculations to demonstrate that the required percentage of cans capable of being filled ~~using by means of~~ through-the-valve fill will be filled using through-the-valve fill;
 - E) For a reclamation system, the parameters which will be monitored to demonstrate proper system operation, with justification;
 - F) For a system approved in a federally enforceable permit, identification of ~~the~~ ~~such~~ permit; and
 - G) An example of the records which will be kept ~~under pursuant to~~ ~~subsections (b)(2) and (b)(3) below~~.
 - 2) On and after ~~an applicable~~ date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of a subject line ~~must~~ collect and record the following information for each type of product that is not filled by the through-the-valve method.

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Information ~~must~~^{need} be provided ~~pursuant~~^{only} ~~under~~^{to} subsections (B), (C), (D), and (E) ~~below~~^{to the extent that the information is relied upon} by the owner or operator to demonstrate that a product is not capable of being filled by ~~the~~^{through-the-valve} method. For this purpose, each formulation in a particular type of can with a particular type of valve assembly ~~must~~^{shall} be addressed separately as a unique product, considering the range of models of cans and valve assemblies, e.g., suppliers, sizes, and weights of the type used for such product:

- A) Identifying information for the product type, including identification and description of the cans' contents, type and model of cans, type and models of valve assembly, and type of propellant and nominal propellant charge;
 - B) Whether the valve assembly is able to be through-the-valve filled;
 - C) Under-the-cup operating rate and projected through-the-valve fill operating rate;
 - D) Information addressing the impact of through-the-valve fill on performance;
 - E) Other supporting data; and
 - F) Whether the product is deemed capable of being filled by the through-the-valve method.
- 3) On and after ~~an applicable~~^a date ~~under~~^{consistent with} Section 218.106 ~~of this Part~~^{or on and after the initial start-up date}, the owner or operator of a subject line ~~must~~^{shall} collect and record all of the following information each day for each line and maintain the information at the source for ~~a~~^a ~~period of~~^{three} years:
- A) Operating data for the line and fill systems;
 - B) For a reclamation system, system monitoring data; and
 - C) Number of cans filled which are capable of being filled ~~using by~~^{means of} through-the-valve fill, determined in ~~compliance~~^{accordance} with the records kept ~~under~~^{pursuant to} subsection (b)(2) ~~above~~^{and} percentage of ~~the~~^{such} cans actually filled using through-the-valve fill.

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- 4) On and after the applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject line ~~mustshall~~ notify the Agency:
- A) Of a violation of ~~the requirements of~~ Subpart DD ~~of this Part~~ by sending a copy of any record showing the violation to the Agency within 30 days ~~afterfollowing~~ the calendar quarter in which the violation occurred;
- B) At least 30 calendar days before changing the method of compliance with Subpart DD ~~of this Part~~, from the methods of filling cans to ~~usingthe use of~~ capture systems and control devices, the owner or operator ~~mustshall~~ comply with ~~all requirements of~~ subsection (a)(1) ~~above~~. Upon changing the method of compliance, the owner or operator ~~mustshall~~ comply with ~~all requirements of~~ subsection (a) ~~above~~.
- c) Any owner or operator of a propellant booster pump which is subject to ~~the requirements of~~ Subpart DD ~~of this Part~~ and complying by ~~usingmeans of~~ work practices ~~must, shall~~ comply with the following:
- 1) By ~~an applicablea~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a pump subject to Subpart DD ~~of this Part~~, the owner or operator of the subject pump ~~mustshall~~ certify to the Agency that the pump will be in compliance on and after ~~an applicablea~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~TheSuch~~ certification ~~mustshall~~ include:
- A) The name and identification number of each pump which will comply by means of work practices;
- B) The work practices which will be followed for the pump, including the means which will be used to determine whether the pump is leaking ~~indicated by, that is, experiencing~~ loss of VOM compared to background levels;
- C) For work practices approved in a federally enforceable permit, identification of ~~thesuch~~ permit; and
- D) An example of the records which will be kept ~~underpursuant to~~ subsection (c)(2) ~~below~~.

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- 2) On and after ~~an applicable~~ the date ~~undereonsistent with~~ Section 218.106-
~~of this Part~~, or on and after the initial start-up date, the owner or operator
of a subject pump ~~mustshall~~ collect and record all of the following
information each day for each pump and maintain the information at the
source for ~~a period of~~ three years:
 - A) Operating data for each pump, including date and time a leak in a
pump is detected, date and time a leaking pump is removed from
service, and action taken to repair a pump; and
 - B) A maintenance log for the pump, detailing all routine and non-
routine maintenance performed, including dates and duration of
any outages.
- 3) On and after ~~an applicable~~ a date ~~undereonsistent with~~ Section 218.106-
~~of this Part~~, the owner or operator of a subject pump ~~mustshall~~ notify the
Agency:
 - A) Of a violation of ~~the requirements of~~ Subpart DD ~~of this Part~~ by
sending a copy of any record showing the violation to the Agency
within 30 days ~~after following the occurrence of~~ the violation;
 - B) At least 30 calendar days before changing the method of
compliance with Subpart DD ~~of this Part~~ from work practices to
~~using use of~~ emission capture and control equipment, the owner or
operator ~~mustshall~~ submit a revised certification ~~underpursuant to~~
subsection (a)(1)-~~above~~. Upon changing the method of compliance
with Subpart DD-~~of this Part~~, the owner or operator ~~mustshall~~
comply with ~~all applicable requirements of~~ subsection (a)-~~above~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART GG: MARINE TERMINALS

Section 218.760 Applicability

- a) ~~This~~The requirements of this Subpart ~~appliesshall apply~~ to sources that load or
who are permitted to load gasoline or crude oil.
- b) ~~This~~The requirements of this Subpart ~~doesshall~~ not apply to the following
activities:

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- 1) Loading of liquids associated with the fueling of marine vessels; or
- 2) ~~Transferring~~The transfer of liquids from one marine vessel to another marine vessel.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.762 Control Requirements

- a) Except as provided at subsection (c) ~~of this Section~~, every owner or operator of a marine terminal subject to ~~the requirements of this Subpart~~ must equip each terminal with a vapor collection and control system that:
 - 1) Captures the vapors displaced during the loading event and reduces overall VOM emissions by at least 95% by weight through ~~using~~the use of either a vapor combustion system or a vapor recovery system;
 - 2) Is maintained and operated so that it prevents visible liquid leaks, significant odors, and visible fumes in the liquid transfer and the vapor collection lines; and appurtenances during loading; and
 - 3) Has been certified as required by Coast Guard regulations ~~found~~ at 33 CFR 154.
- b) ~~During the regulatory control period of From~~ May 1 to September 15, ~~the regulatory control period~~, every owner or operator of a marine terminal subject to ~~the requirements of this Subpart~~ must load gasoline or crude oil only into marine vessels that are:
 - 1) Equipped with vapor collection equipment that has been certified as required by Coast Guard regulations ~~found~~ at 46 CFR 39;
 - 2) Connected to the vapor collection system; and
 - 3) Vapor-tight as described in ~~the following~~ subsections (b)(3)(A), (b)(3)(B), (b)(3)(C), or (b)(3)(D) ~~of this Section~~:
 - A) The owner or operator of the marine terminal must load each marine vessel with a vacuum assisted vapor collection system,

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instrumented ~~so in such a way~~ that the pump(s) transferring gasoline or crude oil to the marine vessel will not operate unless the vapor collection system is properly connected and properly operating.

- B) As an alternative to subsection (b)(3)(A) ~~of this Section~~, the owner or operator of the marine terminal ~~must~~ shall obtain documentation ~~under as described in~~ Section 218.770(b) ~~of this Subpart~~ that the marine vessel has been vapor-tightness tested within either the ~~preceding~~ 12 months or the preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR 31.10-17, using Method 21 of ~~40 CFR 60. Appendix A-7~~ Part 60, Appendix A, incorporated by reference at Section 218.112 ~~of this Part~~, as described in Section 218.768(b) ~~of this Subpart~~.
- C) If there is no documentation of a successful leak test conducted on the marine vessel in either the ~~preceding~~ 12 months or ~~in the~~ preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR 31.10-17, the owner or operator of the marine terminal ~~must~~ shall require that a leak test of the marine vessel be conducted during the final ~~20% 20 percent~~ of loading of the marine vessel or ~~must~~ shall not load the vessel. The test ~~must~~ shall be conducted when the marine vessel is being loaded at the maximum liquid transfer rate for that transfer operation. The owner or operator of the marine terminal ~~must~~ shall require that the documentation ~~under described in~~ Section 218.770(b) ~~of this Subpart~~ is completed ~~before prior to~~ the departure of the vessel.
- D) If the marine vessel has failed its most recent vapor-tightness leak test at the marine terminal, before the marine vessel can be loaded, the owner or operator of the marine terminal ~~must~~ shall require that the owner or operator of the marine vessel provide documentation that the leaks detected during the previous vapor-tightness leak test have been repaired and that the marine vessel has been vapor-tightness tested since the leak(s) has been repaired ~~under pursuant to~~ subsection (b)(3)(B) ~~of this Section~~.

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- c) As an alternative to the control requirements of subsections (a) and (b) ~~of this Section~~, an owner or operator of a marine terminal subject to the control requirements of this Subpart may comply by showing:
- 1) Operation of a vapor collection and control system ~~to load for the loading of~~ gasoline or crude oil from marine vessels in ~~compliance~~ accordance with the regulations adopted by ~~the~~ USEPA ~~under~~ pursuant to Sections 112(d) or 183(f) of the CAA;
 - 2) Reduction of VOM emissions equivalent to the levels in Appendix E ~~of this Part~~ through a federally enforceable emission reduction plan; or
 - 3) An alternate procedure ~~to those described that has been~~ approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.
- d) Nothing in this Subpart ~~supersedes~~ shall supersede any U.S. Coast Guard regulation that is more stringent than ~~that contained in~~ this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.764 Compliance Certification

By May 1, 1996, ~~or~~ upon initial startup, or upon change in method of compliance, the owner or operator of a source subject to ~~the requirements of~~ this Subpart must certify compliance with ~~the requirements of~~ this Subpart by submitting to the Agency the following:

- a) If complying with Sections 218.762(a) and (b), or (c)(1), or (c)(3) ~~of this Subpart~~:
- 1) The type of vapor collection and control system used ~~utilized~~;
 - 2) The date the system was installed;
 - 3) A demonstration that the vapor collection and control system achieves an overall efficiency of 95%;
 - 4) A copy of the U.S. Coast Guard certification required under 33 CFR 154; and
 - 5) The location (including the contact person's name, address, and telephone number) of the records required by Section 218.770 ~~of this Subpart~~.

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- b) If complying with Section 218.762(c)(2) ~~of this Subpart~~, a federally enforceable emission reduction plan.
- c) If not loading during the 1996 regulatory control period or the 1996 and 1997 regulatory control periods, a statement that the source will not be loading gasoline or crude oil, the regulatory control period affected, and a date certain when the requirements of subsection (a) ~~above~~ will be met. Further, if the owner or operator is also required to comply with the control requirements for marine vessel loading adopted ~~underpursuant to~~ Section 112(d) or Section 183(f) of the CAA, then the ~~above~~ statement of not loading may extend to subsequent regulatory control periods until ~~installing and operating~~ ~~installment and operation~~ ~~of~~ the control equipment is required under Section 112(d) or Section 183(f) of the CAA.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.766 Leaks

The owner or operator of a marine terminal ~~must~~ shall comply with ~~the requirements of~~ Section 218.445 ~~of this Part~~ with respect to all equipment associated with the vapor collection and control system required by Section 218.762(a) ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.768 Testing and Monitoring

- a) Compliance with Section 218.762(a)(2) ~~must of this Subpart shall~~ be determined by visual inspection and ~~by~~ the leak detection methods ~~contained~~ in Section 218.105(g) ~~of this Part~~.
- b) If the control device used to comply with Section 218.762(a)(1) ~~of this Subpart~~ is a flare, compliance ~~must~~ shall be determined by methods ~~described~~ in Section 218.429(c) ~~of this Part~~.
- c) For all other control devices used to comply with Section 218.762(a)(1) ~~of this Subpart~~, compliance ~~must~~ shall be determined by methods ~~described~~ in Section 218.105(d) and (f) ~~of this Part~~.

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- d) Compliance with Section 218.762(b)(3) ~~must of this Subpart shall~~ be determined by one of the methods ~~described~~ in this Section:
- 1) A marine vessel loaded in ~~compliance accordance~~ with Section 218.762(b)(3)(A) ~~using of this Subpart through the use of~~ a vacuum assisted vapor collection system is assumed to be vapor-tight for ~~the purposes of~~ this Subpart.
 - 2) A vapor-tightness test for marine vessels ~~must shall~~ be conducted to include the final ~~20%20 percent~~ of loading of each product tank of the marine vessel, and it ~~must shall~~ be applied to any potential sources of vapor leaks on the vessel ~~under pursuant to~~ Method 21 of 40 CFR ~~60. Appendix A-760, Appendix A,~~ incorporated by reference at Section 218.112 ~~of this Part.~~ A reading of 10,000 ppmv or greater as methane ~~constitutes shall constitute~~ a leak.
 - 3) As an alternative to subsection (d)(2) ~~of this Section,~~ an owner or operator of a marine terminal may use the vapor-tightness test ~~described in~~ 40 CFR 61.304(f), incorporated by reference at Section 218.112 ~~of this Part.~~
- e) When in the opinion of the Agency or USEPA it is necessary to conduct testing to demonstrate compliance with or verify effectiveness of the vapor collection and control system required by Section 218.762(a), (c)(1), or (c)(3) ~~of this Subpart,~~ the owner or operator of a marine terminal ~~must shall,~~ at its own expense, conduct ~~the such~~ tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified in~~ subsections (a), (b), or (c) ~~of this Section,~~ as applicable.
- f) An owner or operator of a marine terminal planning to conduct a VOM emissions test to demonstrate compliance with Sections 218.762(a), (c)(1), or (c)(3) ~~must of this Subpart shall~~ notify the Agency of that intent ~~at least not less than~~ 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.770 Recordkeeping and Reporting

- a) The owner or operator of sources complying with Sections ~~218.762(a)219.762(a)~~ and (b), or (c)(1), or (c)(3) ~~must of this Subpart shall~~ maintain records regarding the marine terminal, and each time a marine vessel is loaded during the regulatory control period. The records ~~must shall~~ include ~~but are not limited to:~~

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- 1) ~~Each date~~The date(s) and ~~time~~the time(s) at which the marine vessel was loaded from the marine terminal;
 - 2) The name, type, identification number, and owner of the vessel loaded;
 - 3) The type and amount of liquid loaded into the marine vessel;
 - 4) Records of any leaks found, repair attempts, and the results of the required fugitive monitoring and maintenance program, including appropriate dates, test methods, instrument readings, repair results, and corrective action taken as required by Sections 218.762(a)(2) and 218.766 ~~of this Subpart~~;
 - 5) A copy of the Coast Guard certification demonstrating that the marine terminal's vapor collection and control system has been certified as required by Coast Guard regulations ~~found~~ at 33 CFR 154; and
 - 6) A copy of the Coast Guard certification demonstrating that the marine vessel has been inspected and certified as required by Coast Guard regulations ~~found~~ at 46 CFR 39. If a copy of the Coast Guard certificate is not available at the time of loading, then the date that the marine vessel was last inspected and the authorization that the marine vessel has functioning vapor control equipment must be recorded from the certificate. ~~A~~Further, a copy of the certificate must be obtained by the owner or operator of the marine terminal within 21 days after the loading event.
- b) Owners or operators complying with Sections 218.762(b)(3)(B), (b)(3)(C), or (b)(3)(D) ~~must also~~~~shall additionally~~ maintain the following records concerning the vapor-tightness of the marine vessel:
- 1) Test title;
 - 2) Owner of the marine vessel tested;
 - 3) The identification number of the marine vessel tested;
 - 4) Testing location;
 - 5) Tester name and signature;

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- 6) Witnessing inspector, name, signature, and affiliation; and
- 7) Test results.
- c) Owners or operators complying with ~~the requirements of~~ Section 218.762(c)(2) ~~must of this Subpart shall~~ maintain records of daily product volumes loaded to demonstrate that the applicable emission reduction ~~specified in Appendix E of this Part~~ has been achieved.
- d) Owners or operators certifying compliance under Section 218.764(c) ~~must shall~~ maintain the records ~~specified in subsections (a)(1), (a)(2), and (a)(3) above.~~
- e) All records required by subsections (a), (b), (c), and (d) ~~must of this Section shall~~ be maintained for at least three years and ~~must shall~~ be made available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART HH: MOTOR VEHICLE REFINISHING

Section 218.780 Emission Limitations

- a) Except ~~under as provided in~~ Section 218.782 ~~of this Subpart, an~~ owner or operator of a motor vehicle refinishing operation ~~must not shall~~ coat motor vehicles, mobile equipment, or their parts and components; unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, ~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM. The VOM content limitations are as follows:

		kg/l	(lb/gal)
1)	Pretreatment wash primer	0.78	(6.5)
2)	Precoat	0.66	(5.5)
3)	Primer/primer surfacer coating	0.58	(4.8)
4)	Primer sealer	0.55	(4.6)

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5)	Topcoat system or basecoat/clearcoat	0.60	(5.0)
6)	Three or four stage topcoat system	0.63	(5.2)
7)	Specialty coatings	0.84	(7.0)
8)	Anti-glare/safety coating	0.84	(7.0)

- b) All coating ~~must~~shall be used according to manufacturer's specifications. If a coating requires ~~adding the addition of~~ a reducer, hardener, or other additive, in some combination, this addition must not cause the coating, as applied, to exceed the applicable VOM content limitation.
- c) Specialty coatings ~~must not~~shall represent ~~no more than 5%~~5 percent, by volume, of all coatings applied at a source on a monthly basis.
- d) The following equations ~~must~~shall be used to calculate the VOM content of topcoat systems:
- 1) The VOM content of basecoat/clearcoat systems ~~must~~shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), according to the following equation:

$$VOM_{T_{bc/cc}} = (VOM_{bc} + 2 VOM_{cc}) / 3$$

Where:

VOM $T_{bc/cc}$ = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system;

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VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat; ~~and~~

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VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

- 2) The VOM content for a ~~three-stage~~three-stage coating system ~~must~~shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

$$VOM_{T_{ms}} = (VOM_{bc} + VOM_{mc} + 2 VOM_{cc}) / 4$$

Where:

VOM_{T_{ms}} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoat, and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically

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exempted from the definition of VOM), of any given midcoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

- 3) The VOM content for a ~~four-stage~~~~four-stage~~ coating system ~~must~~~~shall~~ be calculated in units of kg VOM/l (lbs VOM/gal) of coating; (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

$$VOM_{T_{ms}} = (VOM_{bc} + VOM_{mc1} + VOM_{mc2} + 2 VOM_{cc}) / 5$$

Where:

VOM_{T_{ms}} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoats, and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc1} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM), of the first midcoat;

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VOM_{mc2} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of the second midcoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.782 Alternative Control Requirements

As an alternative to complying with the VOM content limitations in Section 218.780 ~~of this Subpart~~, the owner or operator of a motor vehicle refinishing operation may operate control equipment that reduces VOM emissions at the source by at least ~~90%90 percent under as provided in either~~ subsection (a) or (b) ~~of this Section~~.

- a) An owner or operator may operate an afterburner or carbon adsorber; or
- b) An owner or operator may use an equivalent alternative control plan, other than an afterburner or carbon adsorber, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.784 Equipment Specifications

Every owner or operator of a motor vehicle refinishing operation, unless the source uses less than 20 gallons of coating per calendar year from all motor vehicle refinishing operations combined, ~~must~~shall:

- a) Coat motor vehicles, mobile equipment, or their parts and components using one of the following coating applicators:
 - 1) Electrostatic spray equipment calibrated, operated, and maintained in ~~compliance~~accordance with the manufacturer's specifications;

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- 2) High Volume Low Pressure (HVLP) spray equipment calibrated, operated, and maintained in ~~compliance~~accordance with the manufacturer's specifications; or
 - 3) An equivalent coating applicator technology that is demonstrated by the manufacturer to achieve transfer efficiency comparable to the HVLP spray equipment technology ~~listed in subsection (a)(2) of this Section~~ for a comparable operation, and for which written approval has been obtained from USEPA. The owner or operator must maintain documentation of USEPA's approval at the motor vehicle refinishing operation; and
- b) Clean all coating applicators with a device that:
- 1) Recirculates solvent during the cleaning process;
 - 2) Collects spent solvent so it is available for disposal or recycling; and
 - 3) Minimizes evaporation of solvents during cleaning, rinsing, draining, and storage.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.786 Surface Preparation Materials

Every owner or operator of a motor vehicle refinishing operation ~~must only shall~~ use only surface preparation materials that never exceed the following VOM content limitations for the specified substrate:

	kg/l	(lb/gal)
a) Plastic parts	0.78	(6.5)
b) Other substrates	0.17	(1.4)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.787 Work Practices

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- a) Every owner or operator of a motor vehicle refinishing operation ~~must~~ shall ensure that fresh and spent solvent, cloth or paper used to apply solvents for surface preparation or cleanup, waste paint, and sludge are stored in closed containers.
- b) Every owner or operator of a motor vehicle refinishing operation that is exempt from the equipment specifications in Section 218.784 ~~of this Subpart~~ because it uses less than 20 gallons of coating per year ~~must~~ shall direct solvent used to clean coating applicator equipment and paint lines into a container for proper disposal or recycling.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.788 Testing

- a) Upon request by the Agency, the owner or operator of a motor vehicle refinishing operation ~~must~~ shall, at its own expense, conduct tests to demonstrate compliance with Sections 218.780, 218.782, or 218.786 ~~of this Subpart~~, in ~~compliance~~ accordance with the applicable test methods and procedures ~~specified~~ in Section 218.105 ~~of this Part~~ and ~~must~~ shall:
 - 1) Notify the Agency 30 days ~~before~~ prior to conducting ~~these~~ such tests; and
 - 2) Submit all test results to the Agency within 45 days after conducting the ~~requisite~~ tests.
- b) For ~~purposes of~~ this Section, surface preparation materials ~~must~~ shall be treated as coatings.
- c) Nothing in this Section ~~limits~~ shall limit the authority of USEPA ~~under~~ pursuant to the CAA Clean Air Act, as amended, to require testing, or ~~affects~~ shall affect the authority of USEPA under Section 114 of the CAA Clean Air Act [(42 U.S.C. 7414 (1990))].

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.789 Monitoring and Recordkeeping for Control Devices

- a) Every owner or operator of a motor vehicle refinishing operation that complies with this Subpart ~~under~~ pursuant to Section 218.782 ~~must~~ of this Subpart shall:

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- 1) Install and operate equipment to continuously monitor each control device as specified in Section 218.105(d)(2)(A) ~~of this Part;~~
 - 2) Keep records of parameters for control devices as monitored ~~under~~ pursuant to subsection (a)(1) ~~of this Section;~~
 - 3) Keep logs of operating time of the control device and monitoring equipment;
 - 4) Keep logs of maintenance of the control device and monitoring equipment; and
 - 5) Maintain all records required in this Section for the most recent consecutive ~~three-year~~ ~~three-year~~ period and make all such records available to the Agency immediately upon request.
- b) An owner or operator may monitor with an alternative method or monitor other parameters than specified in subsection (a)(1) ~~of this Section~~, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.791 Compliance Date

Every owner or operator of a motor vehicle refinishing operation ~~must~~ ~~shall~~ comply with ~~the requirements of~~ this Subpart by March 15, 1996, upon modification, or upon initial startup.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

Section 218.890 Applicability

- a) Except ~~under as provided in~~ subsection (b) ~~of this Section~~, on and after May 1, 2012, ~~the requirements of~~ this Subpart ~~applies~~ ~~shall apply~~ to the owners or operators of sources that manufacture hulls or decks of boats from fiberglass; or that build molds to make hulls or decks of boats from fiberglass; and that emit ~~at least~~ 6.8 kg/day (15 lbs/day) ~~or more~~ of VOM, calculated in ~~compliance~~ ~~accordance~~ with Section 218.894(a)(1)(B), from open molding resin and gel coat operations, resin and gel coat mixing operations, and resin and gel coat application equipment cleaning operations; ~~without in the absence of~~ air

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pollution control equipment. If a source is subject to this Subpart based upon ~~these~~ such criteria, ~~the limitations of~~ this Subpart ~~applies~~ shall apply to the manufacture of all fiberglass boat parts at the source.

- b) ~~Despite~~ ~~Notwithstanding~~ subsection (a) ~~of this Section, the requirements of this Subpart~~ ~~does~~ shall not apply to the following:
- 1) Surface coatings applied to fiberglass boats;
 - 2) Industrial adhesives used in the assembly of fiberglass boats. Polyester resin putties used to assemble fiberglass parts ~~are~~ shall not be considered industrial adhesives for ~~purposes of~~ this exclusion; ~~or~~
 - 3) Closed molding operations.
- c) If a source is or becomes subject to at least one ~~or more~~ of the limitations in this Subpart, the source is always subject to the applicable provisions of this Subpart.
- d) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in this Section is subject to the recordkeeping and reporting requirements ~~specified in Section 218.894(a) of this Subpart.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.891 Emission Limitations and Control Requirements

- a) Except ~~under as provided in~~ subsection (f) ~~of this Section, an~~ owner or operator of a source subject to ~~the requirements of~~ this Subpart ~~must not~~ shall use a subject resin or gel coat at the source unless the resin and gel coat comply with subsection (b)(1) or (b)(2), (c), or (d) ~~and of this Section, as well as with~~ subsections (e), (g), and (h) ~~of this Section.~~ For sources complying ~~under pursuant to~~ subsection (b) or (c) ~~of this Section,~~ if the non-monomer VOM content of a resin or gel coat exceeds ~~5%5 percent~~, by weight, the excess non-monomer VOM ~~must~~ shall be added to the monomer VOM content of the resin or gel coat. The excess non-monomer VOM ~~must~~ shall be calculated in ~~compliance accordance~~ with the following equation:

$$\begin{array}{lcl} \text{Excess Non-} & = & \text{Non-monomer VOM Content} \\ \text{Monomer VOM} & & - \text{5%5 percent, by weight} \end{array}$$

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b) VOM Content Limitations

- 1) Except ~~under as provided in~~ subsection (e) ~~of this Section~~, the monomer VOM content of a subject resin or gel coat ~~must~~~~shall~~ not exceed the following limitations:

	Weighted average monomer VOM content (weight percent)
A) Production resin	
i) Atomized spray	28
ii) Non-atomized	35
B) Pigmented gel coat	33
C) Clear gel coat	48
D) Tooling resin	
i) Atomized	30
ii) Non-atomized	39
E) Tooling gel coat	40

- 2) Except ~~under as provided in~~ subsection (e) ~~of this Section~~, the weighted average monomer VOM content of a subject resin or gel coat ~~must~~~~shall~~ not exceed the applicable limitation ~~set forth in subsection (b)(1) of this Section~~ on a 12-month rolling average basis. Equation 1 ~~must~~~~below shall~~ be used to determine the weighted average monomer VOM content for resin and gel coat materials.

Equation 1:

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$$\frac{\text{Weighted Average Monomer VOM Content}}{\text{Monomer VOM Content}} = \frac{\sum_{i=1}^n M_i VOM_i}{\sum_{i=1}^n M_i}$$

where:

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in Mgmegagrams;

VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation;

n = Number of different open molding resins or gel coats used in the past 12 months in an operation.

- c) Emissions Averaging Alternative. The owner or operator of a source subject to ~~the requirements of~~ this Subpart may elect to include some or all of the subject resin and gel coat operations at the source in the emissions averaging alternative. Resin and gel coat operations ~~using~~utilizing the emissions averaging alternative ~~must~~shall comply with a source-specific monomer VOM mass emission limit on a 12-month rolling average basis, calculated at the end of each calendar month. All subject resin and gel coat operations that do not ~~use~~utilize the emissions averaging alternative ~~must~~shall comply with ~~the requirements in~~ subsection (b) or (d) ~~and of this Section, as well as with~~ all other applicable requirements in this Section.

- 1) The owner or operator of a source subject to this subsection (c) ~~must~~shall use Equation 2 to determine the source-specific monomer VOM mass emission limit for resin and gel coats included in the emissions average:

Equation 2:

$$\text{Monomer VOM Limit} = 46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})$$

where:

Monomer VOM Limit = Total allowable monomer VOM that can be emitted from the open molding operations included in the

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average, expressed in ~~kg~~kilograms per 12-month period;

M_R = Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams~~ (Mg);

M_{PG} = Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{CG} = Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TR} = Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TG} = Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg.

The numerical coefficients associated with each term on the right ~~hand~~ side of Equation 2 are the allowable monomer VOM emission rates for that particular material in units of kg VOM/Mg of material used.

- 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, the owner or operator of a source subject to this subsection (c) ~~must~~shall use Equation 3 to calculate the monomer VOM emissions from the resin and gel coat operations included in the emissions average. The monomer VOM emissions calculated using Equation 3 ~~must~~shall not exceed the monomer VOM limit calculated using Equation 2.

Equation 3:

$$\begin{array}{lcl} \text{Monomer} & & (PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + \\ \text{VOM} & = & (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG}) \\ \text{Emissions} & & \end{array}$$

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where:

- Monomer VOM Emissions = Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in kilograms;
- PV_R = Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed in kg/Mg, calculated in ~~compliance~~ accordance with Equation 4 in subsection (c)(3);
- M_R = Mass of production resin used in the past 12 months, expressed in Mg;
- PV_{PG} = Weighted-average monomer VOM emission rate for pigmented gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~ pursuant to Equation 4;
- M_{PG} = Mass of pigmented gel coat used in the past 12 months, expressed in Mg;
- PV_{CG} = Weighted-average monomer VOM emission rate for clear gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~ pursuant to Equation 4;
- M_{CG} = Mass of clear gel coat used in the past 12 months, expressed in Mg;
- PV_{TR} = Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in kg/Mg, calculated ~~under~~ pursuant to Equation 4;
- M_{TR} = Mass of tooling resin used in the past 12 months, expressed in Mg;
- PV_{TG} = Weighted-average monomer VOM emission rate for tooling gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~ pursuant to Equation 4;

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M_{TG} = Mass of tooling gel coat used in the past 12 months, expressed in Mg.

- 3) For ~~purposes of~~ Equation 3, the owner or operator of a source subject to this subsection (c) ~~must~~shall use Equation 4 to calculate the weighted-average monomer VOM emission rate for the previous 12 months for each resin and gel coat operation included in the emissions average, except ~~under as provided in~~ subsection (c) ~~of this Section~~.

Equation 4:

$$PV_{OP} = \frac{\sum_{i=1}^n M_i PV_i}{\sum_{i=1}^n M_i}$$

where:

PV_{OP} = Weighted-average monomer VOM emission rate for each open molding operation (PV_R , PV_{PG} , PV_{CG} , PV_{TR} , and PV_{TG}) included in the average, expressed in kg of monomer VOM per Mg of material applied;

M_i = Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in Mg;

n = Number of different open molding resins and gel coats used within an operation in the past 12 months;

PV_i = The monomer VOM emission rate for resin or gel coat (i) used within an operation in the past 12 months, expressed in kg of monomer VOM per Mg of material applied. The monomer VOM emission rate formulas in subsection (c)(4) ~~must of this Section shall~~ be used to compute PV_i . If a source includes filled resins in the emissions average, the source ~~must~~shall use the value of PV_F , calculated using Equation 5 in subsection (c)(3) ~~of this Section~~, as the value of PV_i for those resins;

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- i = Subscript denoting a specific open molding resin or gel coat applied.

- 4) For ~~purposes of~~ Equation 4 and subsection (e)(3) ~~of this Section~~, the following monomer VOM emission rate formulas ~~must~~shall apply. ~~These~~Such formulas calculate monomer VOM emission rates in terms of kg of monomer VOM per Mg of resin or gel coat applied. "VOM%" means the monomer VOM content as supplied, expressed as a weight percent value between 0% and 100%~~0 and 100 percent~~:

A) Production resin, tooling resin:

- i) Atomized: $0.014 \times (\text{Resin VOM}\%)^{2.425}$
- ii) Atomized, plus vacuum bagging with roll-out: $0.01185 \times (\text{Resin VOM}\%)^{2.425}$
- iii) Atomized, plus vacuum bagging without roll-out: $0.00945 \times (\text{Resin VOM}\%)^{2.425}$
- iv) Nonatomized: $0.014 \times (\text{Resin VOM}\%)^{2.275}$
- v) Nonatomized, plus vacuum bagging with roll-out: $0.0110 \times (\text{Resin VOM}\%)^{2.275}$
- vi) Nonatomized, plus vacuum bagging without roll-out: $0.0076 \times (\text{Resin VOM}\%)^{2.275}$

B) Pigmented gel coat, clear gel coat, tooling gel coat: $0.445 \times (\text{Gel Coat VOM}\%)^{1.675}$

- d) Capture System and Control Device Requirements. ~~An~~No owner or operator of a source subject to ~~the requirements of~~ this Subpart that is ~~using~~utilizing a capture system and control device for a subject resin or gel coat operation ~~must not~~shall conduct that operation unless the following requirements are satisfied:

- 1) An afterburner or carbon adsorber is installed and operated that meets the limitations ~~set forth~~ in this subsection (d). The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if that device complies with all limitations in this subsection (d), the owner

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or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device, and the plan is approved by the Agency and approved by USEPA as a SIP revision;

- 2) The VOM emissions at the outlet of the control device meet an emissions limitation determined using Equation 2 in subsection (c)(1) ~~of this Section~~. In Equation 2, however, instead of using the mass of each material used over the past 12 months to determine the emission limitation, the owner or operator ~~must~~ use the mass of each material used during the applicable control device performance test; ~~and~~
- 3) The owner or operator complies with all testing and monitoring requirements ~~set forth~~ in Section 218.892 ~~of this Subpart~~.

Commented [SKA136]: strike

- e) Filled Resins. For all filled production and tooling resins, the owner or operator of a source subject to this Subpart ~~must~~ adjust the monomer VOM emission rates determined ~~underpursuant to~~ subsections (b) and (c) ~~of this Section~~ using Equation 5 in subsection (e)(3). If complying ~~underpursuant to~~ subsection (b), the emission rate determined using Equation 5 ~~must~~ not exceed the limitations ~~set forth~~ in subsections (e)(1) and (e)(2) ~~of this Section~~. If complying ~~underpursuant to~~ subsection (c), the value of PV_F , calculated using Equation 5, ~~shall must~~ be used as the value of PV_i in Equation 4, ~~as set forth~~ in subsection (c)(3) ~~of this Section~~. If the non-monomer VOM content of a filled resin exceeds ~~5%5 percent~~, by weight, based on the unfilled resin, the excess non-monomer VOM ~~must~~ be added to the monomer VOM content in ~~compliance accordance~~ with the equation ~~set forth~~ in subsection (a).

- 1) Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;
- 2) Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin applied;
- 3) Equation 5:

$$PV_F = PV_U \times \frac{100 - \% \text{ Filler}}{100}$$

where:

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- PV_F = The as-applied monomer VOM emission rate for the filled production resin or tooling resin, expressed in kg monomer VOM per Mg of filled material;
- PV_U = The monomer VOM emission rate for the unfilled resin, before filler is added, expressed in kg monomer VOM per Mg, as calculated using the formulas in Section 218.891(c)(4) ~~of this Subpart~~;
- % Filler = The weight-percent of filler in the as-applied filled resin system.

- f) The limitations in subsections (a) through (e) ~~do of this Section shall~~ not apply to the following materials. These materials ~~must~~ shall instead comply with the applicable requirements ~~set forth~~ in subsections (f)(1) through (f)(3).
- 1) Production resins, including skin coat resins, that must meet specifications for use in military vessels or must be approved by the United States Coast Guard for use in ~~constructing the construction of~~ lifeboats, rescue boats, and other life-saving appliances approved under 46 CFR Subchapter Q, incorporated by reference in Section 218.112 ~~of this Part~~, or for use in the construction of small passenger vessels regulated by 40 CFR Subchapter T, incorporated by reference in Section 218.112 ~~of this Part~~. The owner or operator of a source subject to this Subpart ~~must~~ shall apply all ~~such~~ resins with nonatomizing resin application equipment;
 - 2) Production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch ups. These materials ~~must~~ shall not exceed ~~1%1 percent~~, by weight, of all resins and gel coats used at a subject source on a 12-month rolling average basis;
 - 3) Pure, ~~100%100 percent~~ vinylester resins used for skin coats. The owner or operator of a source subject to this Subpart ~~must~~ shall apply these resins with non-atomizing resin application equipment, and the total amount of the resins ~~must~~ shall not exceed ~~5%5 percent~~, by weight, of all resins used at the subject source on a 12-month rolling-average basis.
- g) ~~An~~ No owner or operator of a source subject to this Subpart ~~must not~~ shall use VOM-containing cleaning solutions to remove cured resins and gel coats from fiberglass boat manufacturing application equipment. Additionally, ~~an~~ no owner

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or operator ~~must not~~ use VOM-containing cleaning solutions for routine cleaning of application equipment unless:

- 1) The VOM content of the cleaning solution is ~~5% or less~~ ~~less than or equal to 5 percent~~, by weight; or
 - 2) The composite vapor pressure of the cleaning solution is ~~less than or equal to 0.50 mmHg~~ ~~or less~~ at ~~68 °F~~ ~~68 °F~~.
- h) ~~An~~ owner or operator of a source subject to this Subpart ~~must not~~ use resin or gel coat mixing containers with a capacity ~~of at least~~ ~~equal to or greater than 208 liters~~ (55 ~~gal~~ gallons), including those used for on-site mixing of putties and polyputties, unless ~~these~~ containers have covers with no visible gaps in place at all times, except when material is being manually added to or removed from a container or when mixing or pumping equipment is being placed in or removed from a container.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.892 Testing and Monitoring Requirements

- a) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.891 ~~must of this Subpart shall~~ be conducted by the owner or operator by May 1, 2012. ~~Thereafter, after which~~ testing ~~must shall~~ be conducted within 90 days after a request by the Agency, or as otherwise specified in this Subpart. The testing ~~must shall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~must shall~~ notify the Agency in writing 30 days ~~before in advance of~~ conducting the testing to allow the Agency to be present during testing.
- b) Testing to demonstrate compliance with the monomer VOM content limitations for resin and gel coat materials in Section 218.891(b) ~~must of this Subpart shall~~ be conducted upon request of the Agency, or as otherwise specified in this Subpart, in ~~compliance~~ ~~accordance~~ with SCAQMD 312-91, incorporated by reference in Section 218.112 ~~of this Part~~.
- c) The owner or operator of a source complying with this Subpart ~~under pursuant to~~ Section 218.891(d) ~~must shall~~ comply with the following:
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, conduct an initial performance test of the

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control device in ~~compliance~~accordance with this subsection (c) that demonstrates compliance with the emission limitation determined ~~under~~pursuant to Section 218.891(d).

- 2) ~~After~~Subsequent to the initial performance test ~~underdescribed in~~ subsection (c)(1) ~~of this Section~~, conduct at least one performance test per calendar year. Performance tests used to demonstrate compliance with Section 218.891(d) ~~must~~shall be conducted at least six months apart, unless the performance test is being conducted ~~after~~following an exceedance of operating parameters ~~underas described in~~ subsection (c)(3) ~~of this Section~~, or ~~when requested per a request~~ by the Agency.
- 3) Monitor and record relevant operating parameters, including the control efficiency of the control device and the amount of materials used in the fiberglass boat manufacturing process, during each control device performance test used to demonstrate compliance with Section 218.891(d). The owner or operator ~~must~~shall continue to operate the fiberglass boat manufacturing process within the parameters until another performance test is conducted that demonstrates compliance with Section 218.891(d). The owner or operator ~~must~~shall monitor the parameters at all times when the control device is in operation. If the fiberglass boat manufacturing process exceeds any operating parameter by more than ~~10%~~10 percent, the owner or operator ~~must~~shall conduct additional performance testing in ~~compliance~~accordance with this Section within 10 operating days after the exceedance.
- 4) The methods and procedures of Section 218.105(d) and (f) ~~must~~shall be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.891(d) ~~of this Subpart~~, as follows:
 - A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. The sampling sites ~~to determine for determining~~ efficiency in reducing VOM from the dryer exhaust ~~must~~shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60.Appendix A-~~

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~~160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~;

- C) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60. Appendix A-760, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
- i) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - ii) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv; or less, as carbon; and
 - iii) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~shall be conducted using either Method 25 or 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest again using Method 25;
- D) ~~Despite~~Notwithstanding the criteria or requirements in Method 25, which specifies a minimum probe temperature of 129 °C (265 °F)~~129 °C (265 °F)~~, the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7 °C (350 °F)~~176.7 °C (350 °F)~~; and

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- E) During testing, the fiberglass boat manufacturing operation ~~must~~shall be operated at representative operating conditions and flow rates.
- 5) If an afterburner is used to demonstrate compliance, the owner or operator ~~must~~shall:
 - A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of ~~3 °C~~3°C or ~~5 °F~~5°F on the emissions control system in ~~compliance~~accordance with Section 218.105(d)(2) ~~of this Part~~ and in ~~compliance~~accordance with the manufacturer's specifications. Monitoring ~~must~~shall be performed at all times when the emissions control system is operating; and
 - B) Install, calibrate, operate, and maintain in ~~compliance~~accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- 6) If a carbon adsorber is used to demonstrate compliance, the owner or operator ~~must~~shall use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment ~~must~~shall monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
- 7) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator ~~must~~shall install, maintain, calibrate, and operate the monitoring equipment ~~in compliance with as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~underpursuant to~~ Section 218.891(d).
- d) Testing to demonstrate compliance with the VOM content limitations for cleaning solutions in Section 218.891(g) ~~of this Subpart~~, and with the non-monomer VOM content limitations for resin and gel coat materials in Section 218.891(a) ~~must~~of

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~~this Subpart, shall~~ be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:

- 1) The applicable test methods and procedures ~~specified in~~ Section 218.105(a) ~~must of this Part shall~~ be used; ~~provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, must shall~~ be used to demonstrate compliance; or
 - 2) For cleaning solvents, the manufacturer's specifications for VOM content may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance accordance~~ with methods ~~specified in~~ Section 218.105(a) ~~of this Part; provided, however, Method 24 must shall~~ be used to determine compliance. ~~If there is in the event of~~ any inconsistency between a Method 24 test and the manufacturer's specifications, the Method 24 test ~~must shall~~ govern.
- e) The owner or operator of a source subject to this Subpart and relying on the VOM content of the cleaning solution to comply with Section 218.891(g)(1) ~~must of this Subpart shall~~:
- 1) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
 - A) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance accordance~~ with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
 - B) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.891(g)(1);
 - 2) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the usage of cleaning solvent and water (or other non-VOM) ~~under as set forth in~~ Section 218.894(g) ~~of this Subpart~~.
- f) Testing to demonstrate compliance with the VOM composite partial vapor pressure limitation for cleaning solvents ~~set forth in~~ Section 218.891(g) ~~must of~~

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~~this Subpart shall~~ be conducted in ~~compliance~~ ~~accordance~~ with the applicable methods and procedures ~~set forth in Section 218.110 of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.894 Recordkeeping and Reporting Requirements

- a) The owner or operator of a source exempt from ~~the limitations of this Subpart~~ because of the criteria in Section 218.890(a) ~~must~~ ~~of this Subpart shall:~~
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the following:
 - A) A declaration that the source is exempt from the requirements in this Subpart because of the criteria in Section 218.890(a);
 - B) Calculations that demonstrate that combined emissions of VOM from all subject fiberglass boat manufacturing operations (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operation) at the source never equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment. To calculate daily emissions of VOM, the owner or operator ~~must~~ ~~shall~~ determine the monthly emissions of VOM from fiberglass boat manufacturing operations at the source (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operations) and divide the amount by the number of days during that calendar month that the fiberglass boat manufacturing operations were in operation;
 - 2) Collect and record the following information and provide copies of the records to the Agency upon request:
 - A) The total pounds of all resins and gel coats used per calendar month;
 - B) The total gallons of all cleanup materials used per calendar month;
 - C) The VOM content of each resin, gel coat, and cleanup material used per calendar month;

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- D) The total VOM emissions, in pounds, for all resins, gel coats, and cleanup materials employed per calendar month, before ~~applying the application of~~ control systems and devices.
- 3) Notify the Agency of any record that shows that the combined emissions of VOM from subject fiberglass boat manufacturing operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day), ~~without in the absence of~~ air pollution control equipment, within 30 days after the event occurs, and provide copies of the record upon request by the Agency.
- b) All sources subject to ~~the requirements of~~ this Subpart must~~shall~~:
 - 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, and upon start-up of a new fiberglass boat manufacturing operation at the source, submit a certification to the Agency that includes:
 - A) Identification of each subject fiberglass boat manufacturing operation as of the date of certification;
 - B) A declaration that all subject fiberglass boat manufacturing operations, including related cleaning operations, are in compliance with ~~the requirements of~~ this Subpart;
 - C) The limitation with which each subject fiberglass boat manufacturing operation will comply (i.e., the VOM content limitation, the emissions averaging alternative, or the emissions control system alternative);
 - D) Initial documentation that each subject fiberglass boat manufacturing operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;

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- F) A description of the practices and procedures that the source will follow to ensure compliance with ~~the limitations in~~ Section 218.891(h) ~~of this Subpart~~;
 - G) A description of each fiberglass boat manufacturing operation exempt ~~under~~ pursuant to Section 218.890(b) ~~of this Subpart~~, if any; and
 - H) A description of materials subject to Section 218.891(f) ~~of this Subpart~~, if any, used in each fiberglass boat manufacturing operation;
- 2) At least 30 calendar days before changing the method of compliance ~~under in accordance with~~ Section 218.891(b), (c), and (d), notify the Agency in writing of the change. The notification ~~must~~ shall include a demonstration of compliance with the newly applicable subsection;
 - 3) Notify the Agency in writing of any violation of ~~the requirements of this Subpart~~ within 30 days ~~after following the occurrence of~~ the violation and provide records documenting the violation upon request by the Agency; and
 - 4) Retain all records required by this Section for at least three years and make those records available to the Agency upon request.
- c) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the limitations of~~ Section 218.891 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.891(b) ~~must~~ shall comply with the following.
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each subject resin and gel coat as applied each day by each subject fiberglass boat manufacturing operation;
 - 2) Collect and record the following information each day for each fiberglass boat manufacturing operation complying with Section 218.891(b):
 - A) The name, identification number, and VOM content of each subject resin and gel coat as applied each day by each fiberglass boat manufacturing operation; and

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- B) If complying with Section 218.891(b)(2), the mass of each open molding resin or gel coat as applied each month by each subject fiberglass boat manufacturing operation, and the weighted average VOM content of all subject resins and gel coats as applied by each subject fiberglass boat manufacturing operation.
- d) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the requirements of~~ Section 218.891 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.891(c) must~~shall~~:
 - 1) On and after May 1, 2012, collect and record the following information each month:
 - A) The amount of production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation;
 - B) The VOM content of each production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation; and
 - C) Total monthly VOM emissions for all subject fiberglass boat manufacturing operations; and
 - 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, collect and record the following information:
 - A) The monomer VOM mass emission limit for all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period, with supporting calculations; and
 - B) The total actual emissions of VOM from all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period.
- e) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the requirements of~~ Section 218.891 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.891(d) must~~shall~~:

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- 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of control device used to comply with the requirements of Section 218.891(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with ~~the requirements of~~ Section 218.891(d); and
 - C) A declaration that the monitoring equipment required under Section 218.892 ~~of this Subpart~~ has been properly installed and calibrated according to manufacturer's specifications;
- 2) Within 90 days after conducting testing ~~underpursuant to~~ Section 218.892, submit to the Agency a copy of all test results ~~and, as well as~~ a certification that includes ~~the following~~:
 - A) A declaration that all tests and calculations necessary to demonstrate whether the fiberglass boat manufacturing operation is in compliance with Section 218.891(d) have been properly performed;
 - B) A statement whether the fiberglass boat manufacturing operations are or are not in compliance with Section 218.891(d);
 - C) The emissions limitation applicable during the control device performance test, with supporting calculations; ~~and~~
 - D) The operating parameters of the fiberglass boat manufacturing process during testing, as monitored in ~~compliance~~~~accordance~~ with Section 218.892; ~~and~~
- 3) Collect and record daily the following information for each fiberglass boat manufacturing operation subject to ~~the requirements of~~ Section 218.891(d), and submit that information to the Agency upon request:
 - A) Afterburner or other approved control device monitoring data in accordance with Section 218.892 ~~of this Subpart~~;

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- B) A log of operating time for the control device and monitoring equipment;
 - C) A maintenance log for the control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) Information to substantiate that the fiberglass boat manufacturing operation is operating in compliance with the parameters determined underpursuant to Section 218.892.
- f) The owner or operator of a source subject to ~~the requirements in~~ Section 218.891(f) must of this Subpart shall collect and record the following information for each fiberglass boat manufacturing operation:
- 1) The name and identification number of each material subject to Section 218.891(f) as applied each day by each subject fiberglass boat manufacturing operation;
 - 2) If subject to Section 218.891(f)(2), the amount of production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch-ups, used each month at the subject source, and the total amount of all resins and gel coats used each month at the subject source;
 - 3) If subject to Section 218.891(f)(3), the amount of pure, 100%100 percent vinylester resins used for skin coats each month at the subject source, and the total amount of all resins used each month at the subject source.
- g) The owner or operator of a source subject to ~~the requirements of~~ Section 218.891 must of this Subpart shall collect and record the following information for each cleaning solution used in each fiberglass boat manufacturing operation:
- 1) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.891(g) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
 - A) The name and identification of each cleaning solution;

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- B) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~accordance with Section 218.892(d) ~~of this Subpart~~;
 - C) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - D) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - E) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - F) A calibration log for the automatic equipment, detailing periodic checks;
- 2) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.891(g), and that is not prepared at the source with automatic equipment:
- A) The name and identification of each cleaning solution;
 - B) Date and time of preparation, and each subsequent modification, of the batch;
 - C) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~accordance with Section 218.892(d);
 - D) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - E) The VOM content of the as-used cleaning solution, with supporting calculations; and
- 3) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.891(g):

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- A) The name and identification of each cleaning solution;
- B) Date and time of preparation, and each subsequent modification, of the batch;
- C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in ~~compliance~~ accordance with Section 218.892(f) ~~of this Subpart~~;
- D) The total amount of each cleaning solvent, including water, used to prepare the as-used cleaning solution; and
- E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in ~~compliance~~ accordance with Section 218.110 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section 218.900 Applicability

- a) Except ~~under as provided in~~ subsection (b) ~~of this Section~~, on and after May 1, 2012, ~~the requirements of this Subpart~~ applicesshall apply to miscellaneous industrial adhesive application operations at sources where the total actual VOM emissions from all such operations, including related cleaning activities, are at least equal or exceed 6.8 kg/day (15 lbs/day), calculated in ~~compliance~~ accordance with Section 218.904(a)(1)(B), ~~without in the absence of~~ air pollution control equipment.
- b) ~~Despite~~ Notwithstanding subsection (a) ~~of this Section~~:
 - 1) ~~This~~ The requirements of this Subpart ~~doesshall~~ not apply to miscellaneous industrial adhesive application operations associated with ~~the following~~:
 - A) Aerospace coatings;
 - B) Metal furniture coatings;
 - C) Large appliance coatings;

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- D) Flat wood paneling coatings;
 - E) Paper, film, and foil coatings;
 - F) Lithographic printing;
 - G) Letterpress printing;
 - H) Flexible package printing;
 - I) Coil coating;
 - J) Fabric coating;
 - K) Rubber tire manufacturing.
- 2) ~~The requirements of~~ Section 218.901(b) through (e) ~~do~~es ~~this Subpart~~ shall not apply to the following:
- A) Adhesives or adhesive primers being tested or evaluated in any research and development operation or quality assurance or analytical laboratory;
 - B) Adhesives or adhesive primers used in the assembly, repair, or manufacture of aerospace or undersea-based weapon systems;
 - C) Adhesives or adhesive primers used in medical equipment manufacturing operations;
 - D) Cyanoacrylate adhesive application operations;
 - E) Aerosol adhesive and aerosol adhesive primer application operations;
 - F) Operations using polyester bonding putties to assemble fiberglass parts at fiberglass boat manufacturing facilities and at other reinforced plastic composite manufacturing facilities;

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- G) Operations using adhesives and adhesive primers that are supplied to the manufacturer in containers with a net volume of 0.47 liters (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.
- c) If a miscellaneous industrial adhesive application operation at a source is or becomes subject to at least one ~~or more~~ of the limitations in this Subpart, the miscellaneous industrial adhesive application operation is always subject to the applicable provisions of this Subpart.
- d) The owner or operator of a source exempt from the emission limitations and control requirements of this Subpart because of the criteria in subsection (a) ~~of this Section~~ is subject to the recordkeeping and reporting requirements ~~specified in Section 218.904(a) of this Subpart.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.901 Emission Limitations and Control Requirements

- a) The owner or operator of a source subject to ~~the requirements of~~ this Subpart ~~must~~shall comply with the limitations in subsection (b), (c), or (d) ~~and of this Section, as well as with the limitations in~~ subsections (e) and (f) ~~of this Section.~~ ~~Despite~~Notwithstanding this requirement, sources subject to Section 218.900(b)(2) ~~must~~shall comply with the limitations in subsection (f) ~~of this Section~~ only.
- b) The owner or operator of adhesive application operations listed in this subsection (b) ~~must~~shall comply with the following VOM emission limitations, ~~excluding~~minus water and any compounds that are specifically exempted from the definition of VOM, as applied. If an adhesive is used to bond dissimilar substrates together, the substrate category with the highest VOM emission limitation ~~applies~~shall apply:

	kg VOM/l adhesive or adhesive primer applied	lb VOM/gal adhesive or adhesive primer applied
1) General adhesive application operations		
A) Reinforced plastic composite	0.200	(1.7)

Commented [SKA137]: spelling error

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B)	Flexible vinyl	0.250	(2.1)
C)	Metal	0.030	(0.3)
D)	Porous material (except wood)	0.120	(1.0)
E)	Rubber	0.250	(2.1)
F)	Wood	0.030	(0.3)
G)	Other substrates	0.250	(2.1)
2)	Specialty adhesive application operations		
A)	Ceramic tile installation	0.130	(1.1)
B)	Contact adhesive	0.250	(2.1)
C)	Cove base installation	0.150	(1.3)
D)	Indoor floor covering installation	0.150	(1.3)
E)	Outdoor floor covering installation	0.250	(2.1)
F)	Installation of perimeter bonded sheet flooring	0.660	(5.5)
G)	Metal to urethane/rubber molding or casting	0.850	(7.1)
H)	Motor vehicle adhesive	0.250	(2.1)
I)	Motor vehicle weatherstrip adhesive	0.750	(6.3)
J)	Multipurpose construction	0.200	(1.7)

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K)	Plastic solvent welding (acrylonitrile butadiene styrene (ABS) welding)	0.400	(3.3)
L)	Plastic solvent welding (except ABS welding)	0.500	(4.2)
M)	Sheet rubber lining installation	0.850	(7.1)
N)	Single-ply roof membrane installation/repair (except ethylene ~~propylene diene~~ ~~propylenediene~~ monomer (EPDM) roof membrane)	0.250	(2.1)
O)	Structural glazing	0.100	(0.8)
P)	Thin metal laminate	0.780	(6.5)
Q)	Tire repair	0.100	(0.8)
R)	Waterproof resorcinol glue	0.170	(1.4)
3)	Adhesive primer application operations		
A)	Motor vehicle glass bonding primer	0.900	(7.5)
B)	Plastic solvent welding adhesive primer	0.650	(5.4)
C)	Single-ply roof membrane adhesive primer	0.250	(2.1)
D)	Other adhesive primer	0.250	(2.1)

- c) ~~An~~No owner or operator of a source subject to this Subpart ~~must not~~shall operate a miscellaneous industrial adhesive application operation unless the daily-weighted average VOM content of subject adhesives as applied each day by the operation, calculated in ~~compliance~~accordance with subsection (c)(1) ~~of this Section~~, is less than or equal to the emissions limitation calculated in ~~compliance~~accordance with subsection (c)(2) ~~of this Section~~.

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1) Weighted Average of VOM Content of Adhesives Applied Each Day

$$VOM_{WA} = \frac{\sum_{i=1}^n V_i VOM_i}{\sum_{i=1}^n V_i}$$

where:

VOM_{WA} = The weighted average VOM content in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day;

i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

VOM_i = The VOM content in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied;

2) Allowable Weighted Average VOM Limit for an Averaging Operation

$$Limit_{WA} = \frac{\sum_{i=1}^n V_i Limit_i}{\sum_{i=1}^n V_i}$$

where:

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Limit_{WA} = The allowable weighted average VOM limit in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day in a single operation;

i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

Limit_i = The VOM limit, taken from subsection (b) ~~of this Section~~, in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied.

d) ~~An~~ owner or operator of a source subject to this Subpart ~~must not~~ shall operate a miscellaneous industrial adhesive application operation employing a capture system and control device unless either:

1) An afterburner or carbon adsorption system is used that provides at least ~~85%~~ 85 percent reduction in the overall emissions of VOM from the application operation;

2) An alternative capture and control system is used that provides at least ~~85%~~ 85 percent reduction in the overall emissions of VOM from the application operation and is approved by the Agency and approved by USEPA as a SIP revision. The owner or operator ~~must~~ shall submit to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; or

3) The owner or operator complies with the applicable limitation ~~set forth~~ in subsection (b) ~~of this Section~~ by ~~using~~ utilizing a combination of low-VOM adhesives and an afterburner or carbon adsorption system. The owner or operator may use an alternative capture and control system if the owner or operator submits to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the capture and control system, and the

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system is approved by the Agency and approved by USEPA as a SIP revision.

- e) The owner or operator of a source subject to this Subpart ~~must~~shall apply all miscellaneous industrial adhesives using at least one ~~or more of~~ the following methods:
 - 1) Electrostatic spray;
 - 2) High volume low pressure (HVLP) spray;
 - 3) Flow coating. For ~~the purposes of~~ this Subpart, "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - 4) Roll coating or hand application, including non-spray application methods similar to hand or mechanically powered caulking gun, brush, or direct hand application;
 - 5) Dip coating, including electrodeposition. For ~~purposes of~~ this Subpart, "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - 6) Airless spray;
 - 7) Air-assisted airless spray; or
 - 8) Another adhesive application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.
- f) The owner or operator of a source subject to this Subpart ~~must~~shall comply with the following work practices for each subject miscellaneous adhesive application operation at the source:
 - 1) Store all VOM-containing adhesives, adhesive primers, process-related waste materials, cleaning materials, and used shop towels in closed containers;

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- 2) Ensure that mixing and storage containers used for VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing those materials;
- 3) Minimize spills of VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials;
- 4) Convey VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and
- 5) Minimize VOM emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.902 Testing Requirements

- a) Testing to demonstrate compliance with ~~the requirements of~~ this Subpart ~~must~~ shall be conducted by the owner or operator by May 1, 2012, ~~after which—~~ ~~Thereafter,~~ testing ~~must~~ shall be conducted within 90 days after a request by the Agency, or as otherwise provided in this Subpart. The testing ~~must~~ shall be conducted at the expense of the owner or operator, and the owner or operator ~~must~~ shall notify the Agency in writing 30 days ~~before in advance of~~ conducting the testing to allow the Agency to be present during testing.
- b) Testing to demonstrate compliance with the VOM content limitations in Section 218.901(b) ~~must of this Subpart shall~~ be conducted as follows:
 - 1) Method 24, incorporated by reference in Section 218.112 ~~must of this Part,~~ ~~shall~~ be used for non-reactive adhesives. If it is demonstrated to the satisfaction of the Agency and the USEPA that plant adhesive formulation data are equivalent to Method 24 results, formulation data may be used. ~~If there is~~ ~~In the event of~~ any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern;

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- 2) ~~Appendix A of~~ 40 CFR 63, Subpart PPPP, ~~Appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used for reactive adhesives.
 - 3) The manufacturer's specifications for VOM content for adhesives may be used if the specifications are based on results of tests of the VOM content conducted in ~~compliance~~accordance with methods ~~specified~~ in subsections (b)(1) and (b)(2) ~~of this Section~~, as applicable.
- c) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) ~~must of this Part shall~~ be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.901(d) ~~of this Subpart~~, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR ~~60. Appendix A-760, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used, except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv; or less, as carbon;
 - C) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this

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option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest must be conducted using either Method 25 or 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

D) During testing, the cleaning equipment must be operated at representative operating conditions and flow rates.

- d) An owner or operator using an emissions control system other than an afterburner or carbon adsorber must conduct testing to demonstrate compliance with ~~the requirements of~~ Section 218.901(d) ~~as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~under~~ pursuant to Section 218.901(d)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.903 Monitoring Requirements

- a) If an afterburner is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) must ~~of this Subpart shall~~:
- 1) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of ~~3 °C/3 °C or 5 °F/5 °F~~ on the emissions control system in ~~compliance~~ accordance with Section 218.105(d)(2) ~~of this Part~~ and in ~~compliance~~ accordance with the manufacturer's specifications. Monitoring must ~~shall~~ be performed at all times when the emissions control system is operating; and
 - 2) Install, calibrate, operate, and maintain, in ~~compliance~~ accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

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- b) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) ~~must of this Subpart shall~~ use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment ~~must shall~~ monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
- c) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) ~~must of this Subpart shall~~ install, maintain, calibrate, and operate the monitoring equipment ~~under as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~under pursuant to~~ Section 218.901(d)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.904 Recordkeeping and Reporting Requirements

- a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) ~~must of this Subpart shall~~ comply with the following:
- 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
- A) A declaration that the source is exempt from ~~the requirements of~~ this Section because of the criteria in Section 218.900(a);
- B) Calculations that demonstrate that combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, never equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment. To calculate daily emissions of VOM, the owner or operator ~~must shall~~ determine the monthly emissions of VOM from miscellaneous industrial adhesive application operations at the source (including related cleaning activities) and divide this amount by the number of days during that calendar month that miscellaneous industrial adhesive application operations at the source were in operation;

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- 2) Collect and record the following information each month for each miscellaneous industrial adhesive application operation, maintain the information at the source for ~~a period of~~ three years, and provide the information to the Agency upon request:
 - A) The name and identification number of each adhesive as applied by each miscellaneous industrial adhesive application operation; and
 - B) The weight of VOM per volume and the volume of each adhesive (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each month by each miscellaneous industrial adhesive application operation;
 - 3) Notify the Agency of any record that shows that the combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day); ~~without in the absence of~~ air pollution control equipment, within 30 days after the event occurs, and provide copies of those records upon request by the Agency.
- b) All sources subject to ~~the requirements of~~ this Subpart must shall:
- 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - A) Identification of each subject adhesive application operation as of the date of certification;
 - B) A declaration that all subject adhesive application operations are in compliance with ~~the requirements of~~ this Subpart;
 - C) The limitation with which each subject adhesive application operation will comply (i.e., the VOM content limitation, the daily weighted averaging alternative, or the emissions control system alternative);
 - D) Initial documentation that each subject adhesive application operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;

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- E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - F) A description of the practices and procedures that the source will follow to ensure compliance with ~~the limitations in~~ Section 218.901(f) ~~of this Subpart~~;
 - G) A description of each adhesive application operation exempt ~~under~~ pursuant to Section 218.900(b)(2) ~~of this Subpart~~, if any; and
 - H) The application methods used by each subject adhesive application operation;
- 2) At least 30 calendar days before changing the method of compliance ~~under in accordance with~~ Section 218.901(b), (c), and (d), notify the Agency in writing of the change. The notification ~~must~~ shall include a demonstration of compliance with the newly applicable subsection;
 - 3) Notify the Agency in writing of any violation of ~~the requirements of this~~ Subpart within 30 days ~~after following the occurrence of~~ the violation and provide records documenting the violation upon request by the Agency;
 - 4) Retain all records required by this Section for at least three years and make those records available to the Agency upon request.
- c) The owner or operator of an adhesive application operation subject to ~~the limitations of~~ Section 218.901 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.901(b) ~~must~~ shall comply with the following:
 - 1) By May 1, 2012, or upon the initial start-up date, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;
 - 2) Collect and record the name, identification number, and VOM content of each adhesive as applied each day by each adhesive application operation complying with Section 218.901(b).

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- d) The owner or operator of an adhesive application operation subject to ~~the limitations of~~ Section 218.901 ~~of this Subpart~~ and complying by means of Section 218.901(c) ~~must~~shall comply with the following:
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;
 - 2) Collect and record the following information each day for each adhesive application operation complying by means of Section 218.901(c):
 - A) The name, identification number, VOM content, and volume of each adhesive as applied each day by each subject adhesive application operation;
 - B) The daily weighted average VOM content of all adhesives as applied by each subject adhesive application operation.
- e) The owner or operator of an adhesive application operation subject to ~~the requirements of~~ Section 218.901 ~~of this Subpart~~ and complying ~~under~~by means of Section 218.901(d) ~~must~~shall:
 - 1) By May 1, 2012, or upon the initial start-up date, whichever is later, and upon initial start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.901(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.901(d); and
 - C) A declaration that the monitoring equipment required under Section 218.903 ~~of this Subpart~~ has been properly installed and calibrated according to manufacturer's specifications;

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- 2) Within 90 days after conducting testing ~~underpursuant to~~ Section 218.902-
~~of this Subpart~~, submit to the Agency a copy of all test results ~~and, as well~~
~~as~~ a certification that includes ~~the following~~:
- A) A declaration that all tests and calculations necessary to demonstrate whether the adhesive application operations are in compliance with Section 218.901(d) have been properly performed;
 - B) A statement whether the adhesive application operations are or are not in compliance with Section 218.901(d); and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in ~~compliance~~
~~accordance~~ with Section 218.903 ~~of this Subpart~~;
- 3) Collect and record daily the following information for each adhesive application operation subject to ~~the requirements of~~ Section 218.901(d):
- A) Afterburner or other approved control device monitoring data in ~~compliance~~
~~accordance~~ with Section 218.903 ~~of this Subpart~~;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated application unit; and
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

Section 218.920 Applicability

- a) Maximum theoretical emissions:

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- 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(I)), H (excluding Section 218.405), Q, R, S, T, ~~(excluding Section 218.486)~~, V, X, Y, Z, ~~or BB of this Part~~, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; ~~and~~
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment, through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision.
 - 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous fabricated product manufacturing process emission units which are not included within any of the categories ~~specified in~~ Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB ~~of this Part~~.
- b) Potential to emit:
- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units that are:
 - A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~ volatile organic liquid storage tanks, ~~and~~ clean-up solvents operations.
 - 2) If a source is subject to this Subpart ~~under subsection (b)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous fabricated product manufacturing process emission units, which are:

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- A) Not included within any of the categories ~~specified in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD of this Part,~~
or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~volatile organic liquid storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) ~~or and/or~~ (b) ~~or both-~~
~~above, the requirements of this Subpart continueshall continue~~ to apply to a miscellaneous fabricated products manufacturing process emission unit which was subject to the control requirements of Section 218.926 ~~of this Part.~~
- d) ~~Limits~~No limits under this Subpart ~~do notshall~~ apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to~~ 0.91 Mg (1.0 ton) ~~or less~~ per calendar year if the total emissions from ~~thesuch~~ emission units not complying with Section 218.926 ~~do of this Part does~~ not exceed 4.5 Mg (5.0 tons) per calendar year; ~~however, provided that~~ this provision ~~doesshall~~ not apply to an emission unit which is a leather coating line or operation at a source where the criteria of Section 218.920(a) ~~above~~ are not met.
- e) For ~~the purposes of~~ this Subpart, an emission unit ~~isshall be~~ considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For ~~the purposes of~~ this Subpart, VOM emissions ~~withoutin the absence of~~ air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart PP ~~doshall~~ not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board including

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storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.926 Control Requirements

Every owner or operator of miscellaneous fabricated product manufacturing process emission unit subject to this Subpart ~~must~~shall comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~of this Section:~~

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least ~~81%81 percent~~ from each emission unit, ~~or~~

~~(BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) For coating lines:

- 1) The daily-weighted average VOM content ~~must~~shall not exceed 0.42 kg VOM/1 (3.5 lbs VOM/gal) of coating as applied (~~excluding~~minus water and any compounds which are specifically exempted from the definition of VOM) during any day. Owners and operators complying with this limitation are not required to comply with Section 218.301, ~~of this Part, or~~
- 2) For ~~applying~~application of coatings to leather at a source where the criteria of Section 218.290(a) are not met:

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- A) For ~~applying~~application of stain coating to leather, other than specialty leather, either:
- i) The VOM contained in stain coatings, other than stain coatings applied to specialty leather, as applied at the source in any consecutive 12-month period ~~must~~shall not exceed 10 tons; or
 - ii) The application of stain coatings ~~must~~shall comply with Section 218.926(b)(2)(C) ~~below; or~~
- B) For ~~applying~~application of coatings to specialty leather, the total VOM content of all coatings, including stains, as applied to a category of specialty leather, ~~must~~shall not exceed 38 lbs per ~~1,000+000~~ square feet of ~~the~~such specialty leather produced, determined on a monthly basis:

$$C = E/A$$

Where:

- C= The VOM contained in all coatings applied to a category of specialty leather in units of lbs/square ~~feet;~~
- E= The total VOM content of all coatings applied to the category of specialty leather during each month in units of lbs, determined as the sum of the VOM content of each coating applied during the month to such leather;
- A= The total area of the category of specialty leather produced in the month in units of square feet, determined as the sum of the area of each type of leather item produced during the month based on the number of ~~the~~such items produced and the area of ~~the~~such item, measured or established in ~~compliance~~accordance with procedures ~~set~~ in a federally enforceable permit ~~;~~or
- C) For ~~applying~~application of coatings to leather, except for ~~such~~ coatings ~~as are~~ complying ~~under~~by means of Section 218.926(b)(2)(A) or (B) ~~above~~, either:

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- i) The VOM content of each coating ~~must~~shall not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating as applied (~~excluding~~minus water and any compounds which are specifically exempted from the definition of VOM). Owners and operators complying with this limitation are not subject to Section 218.301 ~~of this Part~~; or
- ii) The daily-weighted average VOM content ~~must~~shall not exceed 0.42 ~~kg VOM/l~~kg VOM/l (3.5 lbs ~~VOM/gal~~VOM/gal) of coating as applied ~~under~~as provided in Section 218.916(b)(1) ~~above; or~~
- c) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.927 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~shall comply with ~~those~~the requirements ~~thereof~~ on and after an applicable date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.928 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.926, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at ~~its~~his own expense, conduct ~~these~~such tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specified~~ in Section 218.105.
- b) Nothing in this Section ~~limits~~shall limit the authority of ~~the~~ USEPA ~~under~~pursuant to the CAClean Air Act, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.929 Cementable and Dress or Performance Shoe Leathers

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- a) ~~This rule requirements of this~~ Section ~~applies~~ apply to a leather manufacturing facility located at 2015 North Elston Avenue, Chicago, ~~Illinois~~. The VOM emission limits ~~set forth~~ in this Section ~~shall only~~ apply only to the following types of select grade of chrome tanned, bark/polymer retanned specialty leathers:

- 1) "Cementable shoe leather"~~Shoe Leather~~ is leather which is:

- A) Hot stuffed without the presence of water, fat liquored, or wet stuffed by direct contact with wax, grease, polymers, and oils in liquefied form at elevated temperatures. The content of wax, grease, polymers, and oils embedded into the leather ~~must~~ shall be over ~~12%12 percent~~ but less than ~~25%25 percent~~ by weight, measured on a dry weight basis. Applicable leathers ~~must~~ shall be determined using the equation below:

$$12\% < P < 25\%$$

Where:

$$P = \frac{W}{L} \times 100$$

P = percent content of wax, grease, polymer, and oils

W = weight of wax, grease, polymers, and oils in pounds added to the leather

L = dry weight of the leather in pounds before addition of wax, greases, polymers, and oils;

- B) Finished with coating materials which adhere to the leather surface that feels oily; and
- C) Used primarily ~~to for~~ manufacture ~~of~~ shoes and cannot meet the definition for specialty leather ~~underpursuant to~~ 35 Ill. Adm. Code Section 211.6170.

- 2) "Dress or performance shoe leather"~~Performance Shoe Leather~~ is leather which is:

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- A) Finished with coating materials containing ~~water-emulsified~~~~water-emulsified~~ materials using ~~water-miscible~~~~water-miscible~~ solvent materials to protect the leather and pigmented coating; and
 - B) Used primarily ~~to for~~ manufacture of sewn shoes where the leather must be capable of soaking with a fine, dressy finish that cannot meet the lbs. per gallon VOM limitations ~~set forth~~ in Section 218.926 ~~of this Subpart~~ and cannot meet the definition for specialty leather ~~underpursuant to~~ 35 Ill. Adm. Code 211.6170.
- 3) ~~This~~~~The requirements of this~~ Section ~~does~~~~do~~ not apply to the production of ~~these~~ specialty leathers that meet the definition of specialty leathers ~~underpursuant to~~ 35 Ill. Adm. Code 211.6170 or to the production of leathers that can meet the control requirements of Section 218.926 ~~of this Subpart~~.
- 4) The 10-ton exemption for stain ~~underpursuant to~~ Section 218.926(b)(2)(i) ~~of this Subpart~~ does not apply to leathers produced ~~underpursuant to~~ the requirements of this Section.
- b) The production of specialty leather as defined in subsection (a) ~~of this Section~~ is subject to the following limitations:
- 1) For both ~~water-resistant~~~~water-resistant~~ and ~~non-water-resistant~~~~non-water-resistant~~ leathers, the leather will be designated as ~~water-resistant~~~~water-resistant~~ or ~~non-water-resistant~~~~non-water-resistant~~ in the shipping room by using ASTM ~~D2099-14 (2023)~~~~D2099-00~~, as incorporated by reference in Section 218.112 ~~of this Part~~.
 - 2) For ~~non-water-resistant~~~~non-water-resistant~~ leathers, the total VOM emissions ~~must~~~~shall~~ not exceed 14.0 lbs. VOM/1,000 square feet of leather produced on a 12-month rolling average basis.
 - 3) For water resistant leathers, the total VOM emissions ~~must~~~~shall~~ not exceed 24.0 lbs. VOM/1,000 square feet of leather produced on a 12-month rolling average basis.
 - 4) The total emissions of VOM from leathers produced ~~underpursuant to~~ the emission limits in this Section ~~must~~~~shall~~ not exceed 20 tons per year.

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- c) The owner or operator ~~must~~shall comply with its approved standard operating and maintenance procedures (SOMP). The SOMP ~~must~~will contain the following elements:
- 1) A procedure to minimize the volatilization of solvents during the measuring of coating proportions ~~and/or~~ mixing of coatings ~~or both~~.
 - 2) A procedure to minimize VOM fugitive losses from the coating and solvent storage rooms. Procedures should include methods of securely sealing containers and methods to clean up accidental spills.
 - 3) A procedure to minimize solvent usage or VOM losses during equipment cleanup and during transport (including the transferring of coatings from the mixing areas to the coating lines).
- d) The owner or operator ~~must~~shall perform the reporting and ~~recordkeeping~~record-keeping ~~under~~consistent with the requirements of Section 218.929 of this Subpart and Section 39.5 of the Act (415 ILCS 5/39.5), and ~~must~~shall include at a minimum the following:
- 1) The VOM content and gallons of each coating and the total pounds of VOM of all coatings applied to each category of leather, e.g., cementable ~~non-water-resistant~~non-water resistant, dress ~~water-resistant~~water-resistant, by batch during each month; and
 - 2) The total area of each category of leather produced during the month based on the number of items produced and the area of ~~the~~such items, measured or established in ~~compliance~~accordance with procedures ~~set forth~~ in a federally enforceable permit.
 - 3) ~~Despite~~Notwithstanding the requirements of subsections (d)(1) and (d)(2)-~~of this Section~~, the owner or operator may comply with an equivalent alternative plan for reporting and recordkeeping that has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

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Section 218.940 Applicability

a) Maximum theoretical emissions:

- 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(I)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB of this Part, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment, through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP or FIP revision.
- 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above, the requirements of this Subpart apply~~ shall apply to a source's miscellaneous formulation manufacturing process emission units which are not included within any of the categories ~~specified in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB of this Part.~~

b) Potential to emit:

- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units that are:
 - A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; ~~of this Part~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~ volatile organic liquid storage tanks, and clean-up solvents operations.

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- 2) If a source is subject to this Subpart ~~under subsection (b)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous formulation manufacturing process emission units which are:
- A) Not included within any of the categories ~~specified in Subparts B, E, F, H, Q, R, T, V, X, Y, Z, AA, BB, CC, or DD; of this Part,~~ or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~ volatile organic liquid storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) ~~and/or (b) or both-~~ ~~above, the requirements of~~ this Subpart ~~continues shall continue~~ to apply to a miscellaneous formulation manufacturing process emission unit which was subject to the control requirements of Section 218.946 ~~of this Part.~~
- d) ~~Limits~~ No limits under this Subpart ~~do not shall~~ apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to 2.3 Mg (2.5 tons) or less~~ per calendar year if the total emissions from ~~these~~ such emission units not complying with this Section ~~do does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For ~~the purposes of~~ this Subpart, an emission unit ~~is shall be~~ considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For ~~the purposes of~~ this Subpart, VOM emissions ~~without in the absence of~~ air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart QQ ~~do shall~~ not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet

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engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before~~prior to molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before~~prior to molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

- h) The control requirements of this Subpart ~~do~~shall not apply to the solvation mixers at the container sealant manufacturing facility located at 6050 West 51st Street in Chicago, ~~Illinois~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.946 Control Requirements

Every owner or operator of a miscellaneous formulation manufacturing process emission unit subject to this Subpart ~~must~~shall comply with ~~the requirements of~~ subsection (a) or (b) ~~below~~.

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least ~~81 percent~~ 81 percent from each emission unit, ~~or~~

(~~BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.947 Compliance Schedule

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Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~shall comply with ~~those~~the requirements ~~thereof~~ on and after an applicable~~a~~ date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.948 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.946 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of this Subpart~~ must~~shall~~, at ~~its~~his own expense, conduct ~~these~~such tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~.
- b) Nothing in this Section ~~limits~~shall limit the authority of ~~the~~-USEPA ~~under~~pursuant to the CAA~~Clean Air Act~~, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESSES

Section 218.960 Applicability

- a) Maximum theoretical emissions:
 - 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T; (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM, and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision.

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- 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous organic chemical manufacturing process emission units which are not included within any of the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB ~~of this Part~~.
- b) Potential to emit:
- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units, other than VOM leaks from components, that are:
- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~; or
- B) Not included in one of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.
- 2) If a source is subject to this Subpart ~~under subsection (b)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous organic chemical manufacturing process emission units which are:
- A) Not included within the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD ~~of this Part~~; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.

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- c) If a source ceases to fulfill the criteria of subsections (a) ~~or~~ (b), ~~or both above, the requirements of this Subpart continue~~ shall continue to apply to a miscellaneous organic chemical manufacturing process emission unit which was subject to the control requirements of Section 218.966 ~~of this Part~~.
- d) ~~Limits~~ No limits under this Subpart ~~do not~~ shall apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to~~ 0.91 Mg (1.0 ton) ~~or less~~ per calendar year if the total emissions from ~~these~~ such emission units not complying with Section 218.966 ~~do of this Part does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For ~~the purposes of~~ this Subpart, an emission unit ~~is~~ shall be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For ~~the purposes of~~ this Subpart, VOM emissions ~~without in the absence of~~ air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart RR ~~do~~ shall not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before~~ prior to molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before~~ prior to molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.966 Control Requirements

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Every owner or operator of a miscellaneous organic chemical manufacturing process emission unit subject to this Subpart ~~must~~shall comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~of this Section.~~

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least ~~81%~~81 percent from each emission unit, ~~or~~

(~~BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.

- c) Any leaks from components subject to the control requirements of this Subpart ~~must~~shall be subject to the following control measures by March 15, 1995:

- 1) Repair any component from which a leak of VOL can be observed. The repair ~~must~~shall be completed as soon as practicable but ~~within no later than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the process unit is shut down, in which case the leaking component must be repaired before the unit is restarted.
- 2) For any leak which cannot be readily repaired within one hour after detection, the following records ~~must, as set forth in this subsection, shall~~ be kept. These records ~~must~~shall be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made. Copies of the records ~~must~~shall be made available to the Agency or USEPA upon verbal or written request.

- A) The name and identification of the leaking component;
- B) The date and time the leak is detected;
- C) The action taken to repair the leak; and

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D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.967 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~ shall comply with ~~the requirements of this Subpart on and after an applicable date~~ at its own expense, conduct the tests in compliance with the applicable test methods and procedures specified in Section 218.105 of this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.968 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.966 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of this Subpart~~ must shall, at ~~its~~ its own expense, conduct ~~these~~ such tests in ~~compliance~~ accordance with the applicable test methods and procedures ~~specified in Section 218.105 of this Part.~~
- b) Nothing in this Section ~~limits~~ shall limit the authority of ~~the~~ USEPA under pursuant to the ~~CAA~~ Clean Air Act, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART TT: OTHER EMISSION UNITS

Section 218.980 Applicability

- a) Maximum theoretical emissions:
 - 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(1) ~~of this Part~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z, or BB ~~of this Part~~, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM₅ and

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- B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment, through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision.
- 2) If a source is subject to this Subpart as provided in this Subpart, ~~the requirements of this Subpart~~ applics shall apply to a source's VOM emission units which are not included within any of the categories ~~specified in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, PP, QQ, or RR of this Part~~ or which are not ~~exempt exempted~~ from permitting requirements ~~under pursuant to~~ 35 Ill. Adm. Code 201.146.
- b) Potential to emit:
 - 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more of~~ VOM per year, in aggregate, from emission units, other than furnaces at glass container manufacturing sources and VOM leaks from components, that are:
 - A) Not regulated by Subparts B, E, F, H, Q, R, S, T, (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z, or BB, ~~of this Part~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.
 - 2) If a source is subject to this Subpart as provided under subsection (b)(1) above, ~~the requirements of this Subpart~~ applics shall apply to a source's VOM emission units, which are:
 - A) Not included within any of the categories ~~specified in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, DD, PP, QQ, or RR of this Part~~, or which are not ~~exempt exempted~~ from permitting requirements ~~under pursuant to~~ 35 Ill. Adm. Code 201.146 (excluding Section 201.146-(o) and (p)); or

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- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) ~~or and/or~~ (b) ~~or both of this Section, the requirements of~~ this Subpart ~~continues~~shall continue to apply to an emission unit which was ever subject to the control requirements of Section 219.986 ~~of this Part.~~
- d) ~~Limits~~No limits under this Subpart ~~do not~~shall apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to~~ 2.3 Mg (2.5 tons) ~~or less~~ per calendar year if the total emissions from ~~these~~such emission units not complying with Section 219.986 ~~do of this Part does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For ~~the purposes of~~ this Subpart, an emission unit ~~is~~shall be considered regulated by a Subpart, if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) The control requirements in Subpart TT ~~do~~shall not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene or polyethylene foam packaging, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene or polyethylene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene or polyethylene resin at the source; ~~and~~ iron and steel production; and furnaces at glass container manufacturing sources.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.986 Control Requirements

Every owner or operator of an emission unit subject to this Subpart must comply with ~~the requirements of~~ subsection (a), (b), (c), (d), or (e) ~~below~~.

- a) Emission capture and control equipment which achieves an overall reduction in uncontrolled VOM emissions of at least 81 percent ~~81 percent~~ from each emission unit ~~or~~.

(~~BOARD NOTE~~ **Board Note:** For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) For coating lines, the daily-weighted average VOM content must not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating (~~excluding~~ ~~minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied during any day. Owners and operators complying with this Section are not required to comply with Section 218.301 ~~of this Part, or~~
- c) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in federally enforceable permit or as a SIP revision.
- d) Non-contact process water cooling towers which are subject to the control requirements of this Subpart must comply with the following control measures ~~by no later than~~ March 15, 1995, or upon initial start-up:

- 1) The owner or operator of a non-contact process water cooling tower must perform the following actions to control emissions of ~~volatile organic material (VOM)~~ from ~~the~~ ~~such a~~ tower:
- A) Inspect and monitor ~~the~~ ~~such~~ tower to identify leaks of VOM into the water ~~under, as further specified in~~ subsection (d)(3) ~~below~~;
- B) When a leak is identified, initiate and carry out steps to identify the specific leaking component or components as soon as practicable ~~under, as further specified in~~ subsection (d)(4) ~~below~~.

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- C) When a leaking component is identified which:
- i) Can be removed from service without disrupting production, remove the component from service;
 - ii) Cannot be removed from service without disrupting production, undertake repair of the component under subsection (d)(4) at the next reasonable opportunity to do so, including any period when the component is out of service for scheduled maintenance, ~~as further specified in subsection (d)(4) below; and~~
- D) Maintain records of inspection and monitoring activities, identification of leaks and leaking components, elimination and repair of leaks, and operation of equipment as related to these activities under, as further specified in subsection (d)(5) below.
- 2) A VOM leak ~~must~~shall be considered to exist in a non-contact process water cooling water system if the VOM emissions or VOM content exceed background levels as determined by monitoring conducted in ~~compliance~~accordance with subsection (d)(3)(A) ~~below.~~
- 3) The owner or operator of ~~a~~an non-contact process water cooling tower ~~must~~shall carry out an inspection and monitoring program to identify VOM leaks in the cooling water system.
- A) The owner or operator of a non-contact process water cooling tower ~~must~~shall submit to the Agency a proposed monitoring program, accompanied by technical justification for the program, including justification for the sampling location(s), parameter(s) selected for measurement, monitoring and inspection frequency, and the criteria used relative to the monitored parameters to determine whether a leak exists as specified in subsection (d)(2) ~~above.~~
- B) This inspection and monitoring program for non-contact process water cooling towers ~~must~~shall include, ~~but shall not be limited to:~~
- i) Monitoring ~~of each such~~ tower with a water flow rate of 25,000 gallons per minute or more at a petroleum refinery at least weekly, and monitoring ~~of~~ other towers at least monthly;

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- ii) Inspection of each ~~such~~ tower at least weekly if monitoring is not performed at least weekly.
- C) This inspection and monitoring program ~~must~~ be carried out in ~~compliance~~ with written procedures which the Agency ~~must~~ specify as a condition in a federally enforceable operating permit. These procedures ~~must~~ include the VOM background levels for the cooling tower as established by the owner or operator through monitoring; describe the locations at which samples will be taken; identify the parameter(s) to be measured, the frequency of measurements, and the procedures for monitoring each such tower, ~~including that is,~~ taking ~~of~~ samples and other subsequent handling and analyzing of samples; provide the criteria used to determine that a leak exists ~~under as specified in~~ subsection (d)(2)~~-above~~; and describe the records which will be maintained.
- D) A non-contact process water cooling tower is exempt from ~~the requirements of~~ subsections (d)(3)(B) and (d)(3)(C) ~~above~~ if all equipment where leaks of VOM into cooling water may occur is operated at a ~~minimum~~ pressure in the cooling water ~~of~~ at least 35 kPa greater than the maximum pressure in the process fluid.
- 4) The repair of a leak in a non-contact process water cooling tower ~~is~~ ~~be~~ considered to be completed in an acceptable manner as follows:
 - A) Efforts to identify and locate the leaking components are initiated as soon as practicable, but ~~within in no event later than~~ three days after ~~detecting~~ detection of the leak in the cooling water tower;
 - B) Leaking components ~~must~~ be repaired or removed from service as soon as possible, but ~~within no later than~~ 30 days after ~~detecting~~ the leak in the cooling water tower ~~is detected~~, unless the leaking components cannot be repaired until the next scheduled shutdown for maintenance.
- 5) The owner or operator of a non-contact process water cooling tower ~~must~~ keep records ~~under as set forth below in~~ this subsection. These records ~~must~~ be retained at a readily accessible location at the source and ~~must~~ be available for inspection and copying by the Agency for at least ~~three~~ 3 years:

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- A) Records of inspection and monitoring activity;
 - B) Records of each leak identified in asuch tower, with date, time, and nature of observation or measured level of parameter;
 - C) Records of activity to identify leaking components, with date initiated, summary of components inspected with dates, and method of inspection and observations;
 - D) Records of activity to remove a leaking component from service or repair a leaking component, with date initiated and completed, description of actions taken, and the basis ~~to determine for determining~~ the leak in ~~thesuch~~ tower has been eliminated. If the leaking component is not identified, repaired, or eliminated within 30 days ~~after initially identifying of initial identification of~~ a leak in ~~thesuch~~ tower, this report ~~mustshall~~ include specific reasons why the leak could not be eliminated sooner, including all other intervening periods when the process unit was out of service, actions taken to minimize VOM losses ~~before eliminating prior to elimination of~~ the leak, and any actions taken to prevent the recurrence of ~~this type of a leak of this type~~.
- 6) The owner or operator of a non-contact process water cooling tower ~~mustshall~~ submit to the Agency an annual report ~~to the Agency~~ which provides:
- A) The number of leaks identified in each cooling tower;
 - B) A general description of activity to repair or eliminate leaks which were identified;
 - C) Identification of each leak which was not repaired ~~within 30 days after from~~ the date of ~~identifying identification of~~ a leak in ~~thesuch a~~ tower, with description of the leaks ~~and~~, explanation why the leak was not repaired ~~within 30 days; and~~
 - D) Identification of any periods when required inspection and monitoring activities were not carried out.
- e) Any leaks from components subject to the control requirements of this Subpart ~~mustshall~~ be subject to the following control measures by March 15, 1995:

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- 1) Repair any component from which a leak of VOL can be observed. The repair ~~must~~shall be completed as soon as practicable but ~~within no later than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the next process unit shutdown, in which case the leaking component must be repaired before the unit is restarted.
- 2) For any leak which cannot be readily repaired within one hour after detection, the following records ~~must, as set forth below in this subsection,~~shall be kept. These records ~~must~~shall be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made. Copies of the records ~~must~~shall be made available to the Agency or USEPA upon verbal or written request.
 - A) The name and identification of the leaking component;
 - B) The date and time the leak is detected;
 - C) The action taken to repair the leak; and
 - D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.987 Compliance Schedule

Every owner or operator of an emissions unit which is subject to this Subpart ~~must~~shall comply with ~~the requirements of~~ this Subpart on and after ~~an applicable~~date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.988 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.986 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at ~~its~~its own expense, conduct ~~these~~such tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specified in~~ Section 218.105 ~~of this Part~~.
- b) Nothing in this Section ~~limits~~shall limit the authority of ~~the~~ USEPA ~~under~~pursuant to the CAA Clean Air Act, as amended, to require testing.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART UU: RECORDKEEPING AND REPORTING

Section 218.990 Exempt Emission Units

Upon request by the Agency, the owner or operator of an emission unit which is exempt from ~~the requirements of~~ Subparts PP, QQ, RR, TT, or Section 218.208(b) ~~must of this Part shall~~ submit records to the Agency within 30 calendar days ~~after from~~ the date of the request that document that the emission unit is exempt from those requirements.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.991 Subject Emission Units

- a) Any owner or operator of a VOM emission unit which is subject to ~~the requirements of~~ Subpart PP, QQ, RR, or TT and complying ~~through by the use of~~ emission capture and control equipment ~~must shall~~ comply with the following:
- 1) By ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a new emission unit, the owner or operator of the subject VOM emission unit ~~must shall~~ demonstrate to the Agency that the subject emission unit will be in compliance on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.
 - 2) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ ~~part of any~~, or on and after the initial start-up date, the owner or operator of a subject VOM source ~~must shall~~ collect and record all of the following information each day and maintain the information at the source for ~~a period of~~ three years:
 - A) Control device monitoring data.
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated emission source.
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine

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maintenance performed, including dates and duration of any outages.

- 3) On and after an applicable date undereonsistent with Section 218.106 of this Part, the owner or operator of a subject VOM emission source mustshall notify the Agency:
 - A) Of any violation of the requirements of Subpart PP, QQ, RR, or TT by sending a copy of any record showing a violation to the Agency within 30 days after following the occurrence of the violation;
 - B) At least 30 calendar days before changing the method of compliance with Subpart PP or TT from using the use of capture systems and control devices to using compliant the use of complying coatings, the owner or operator mustshall comply with all requirements of subsection (b)(1) above. After Upon changing the method of compliance with Subpart PP or TT from using the use of capture systems and control devices to using compliant the use of complying coatings, the owner or operator mustshall comply with all requirements of subsection (b) above.
- 4) Testing.
 - A) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with this Subpart, the owner or operator of a VOM emission source subject to the requirements of this Subpart mustshall, at its his own expense, conduct thesuch tests in compliance accordance with the applicable test methods and procedures specified in Section 218.105 of this Part.
 - B) Nothing in this Section limit shall limit the authority of the USEPA under pursuant to the CAA Clean Air Act, as amended, to require testing.
- b) Any owner or operator of a coating line which is subject to the requirements of Subpart PP or TT and complying through by means of the daily-weighted average VOM content limitation mustshall comply with the following:
 - 1) By an applicable date undereonsistent with Section 218.106 of this Part, or upon initial start-up of a coating line subject to Subpart PP or TT, the owner or operator of the subject coating line mustshall certify to the Agency that the coating line will be in compliance on and after an

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~~applicable~~ a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~The~~Such certification ~~must~~shall include:

- A) The name and identification number of each coating line which will comply ~~through the~~by means of daily-weighted average VOM content limitation;
 - B) The name and identification number of each coating as applied on each coating line;
 - C) The weight of VOM per volume and the volume of each coating (~~excluding~~minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line;
 - D) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line;
 - E) The method by which the owner or operator will create and maintain records each day as required in subsection (b)(2) ~~above~~; and
 - F) An example of the format in which the records required in subsection (b)(2) ~~above~~ will be kept.
- 2) On and after ~~an applicable~~ a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line ~~must~~shall collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume and the volume of each coating (~~excluding~~minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; and

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- C) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104 ~~of this Part.~~
- 3) On and after ~~an applicable~~ date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject coating line ~~must~~ shall notify the Agency:
 - A) Of a violation of ~~the requirements of~~ Subpart PP or TT by sending a copy of any record showing a violation to the Agency within 30 days ~~after following the occurrence of~~ the violation.;
 - B) At least 30 calendar days before changing the method of compliance with Subpart PP or TT from ~~using compliant~~ ~~the use of complying~~ coatings to ~~using the use~~ capture systems and control devices, the owner or operator ~~must~~ shall comply with ~~all requirements of subsection (a)(1) above.~~ ~~After~~ Upon changing the method of compliance with Subpart PP or TT from ~~using compliant~~ ~~the use of complying~~ coatings to ~~using the use~~ capture systems and control devices, the owner or operator ~~must~~ shall comply with ~~all requirements of subsection (a) above.~~
- c) Any owner or operator of a VOM source which is subject to ~~the requirements of~~ Subpart PP, QQ, RR, or TT and complying ~~throughby means of~~ an equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision ~~must~~ shall comply with the recordkeeping and reporting requirements ~~specified in the alternative control plan.~~
- d) Any owner or operator of a leather coating operation, i.e., the group of all coating lines at a source engaged ~~applying in application of~~ stain to leather other than specialty leather; ~~or~~ the group of all coating lines at a source engaged in applying coatings, including stain, to a category of specialty leather; ~~or~~ the group of all coating lines at a source engaged ~~applying in application of~~ coatings to leather complying ~~throughby means of~~ the VOM content of each gallon of coating as applied, which is subject to ~~the requirements of~~ Subpart PP, ~~and which is~~ complying ~~underby means of~~ Section 218.926(b)(2)(A), (B), or (C)(i), respectively, ~~must of this Part shall~~ comply with the following:
 - 1) By ~~an applicable~~ date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a leather coating operation which is complying ~~underby means of~~ Section 218.926(b)(2)(A), (B) or (C)(i) ~~of this Part~~, the

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owner or operator of the subject leather coating operation ~~must~~ shall certify to the Agency that the leather coating operation will be in compliance on and after ~~an applicable~~ date ~~under~~ consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~The~~ Such certification ~~must~~ shall include:

- A) A description of the leather coating operation, including identification of the applicable requirement with which it will comply, i.e., Section 218.926(b)(2)(A), (B), or (C) ~~(i) of this Part~~;
- B) A description of the types of leather produced and a demonstration that all leather produced qualifies as specialty leather and is in a single category of specialty leather, if the leather coating operation is complying ~~under by means of~~ Section 218.926(b)(2)(B) ~~of this Part~~;
- C) The name and identification number of each coating line in the leather coating operation;
- D) The name, identification number, and type, i.e., stain or "other," of each coating as applied in the leather coating operation;
- E) The weight of VOM per volume as applied and the volume of each coating as applied in the leather coating operation on a monthly basis, if the leather coating operation is complying ~~under by means of~~ Section 218.296(b)(2)(A) or (B) ~~of this Part~~, or otherwise the weight of VOM per volume of coating as applied (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM);
- F) The production of leather in square feet on a monthly basis, including the number of each leather item produced and the area of ~~the such~~ item, if the leather coating operation is complying ~~under by means of~~ Section 218.926(b)(2)(B);
- G) A demonstration that the leather coating operation complies with the applicable requirement among Section 218.926(b)(2)(A) or (B) ~~of this Part~~, if applicable, expressed in the terms of ~~the such~~ requirement, i.e., total tons of VOM contained in stain coatings other than stain coating during a consecutive 12-month period or lb VOM/1000 square feet of specialty leather produced on a monthly

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basis, accompanied by the calculations by which it was determined;

- H) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied in the leather coating operation on a monthly basis, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(A) or (B);
 - I) The instrument or method by which the owner or operator will accurately measure or calculate the area of such category of leather produced on a monthly basis, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(B);
 - J) The method by which the owner or operator will create and maintain monthly records as required in subsection (d)(2) ~~below~~; and
 - K) An example of the format in which the records required in subsection (d)(2) ~~below~~ will be kept.
- 2) On and after ~~an applicable~~ a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject leather coating operation ~~must~~shall collect and record all of the following information for the leather coating operation on a monthly basis and maintain the information at the source for ~~a period of~~ three years:
- A) The name, identification number, and type of each coating as applied in the leather coating operation;
 - B) Records of the leather produced in the leather coating operation which identify all leather produced in the operation and confirm it qualifies as the specified category of specialty leather, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(B) ~~of this Part~~;
 - C) The weight of VOM per volume and the volume of each coating as applied in the leather coating operation on a monthly basis determined in ~~compliance~~accordance with ~~the procedures described pursuant to~~ Section 218.991(d)(1)(H) ~~above~~, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(A) or (B), or otherwise the greatest weight of VOM

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per volume of coating as applied (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM);

- D) The production of leather in square feet on a monthly basis, including the number of each leather item produced and the area of ~~each such~~ item determined in ~~compliance~~~~accordance~~ with ~~the procedures described pursuant to~~ Section 218.991(d)(1)(I) ~~above~~ and ~~as set forth as~~ a federally enforceable permit condition, if the leather coating operation is complying ~~under by means of~~ Section 218.926(b)(2)(B) ~~of this Part; and~~
 - E) A demonstration that the leather coating operation complies with the applicable requirement among Section 218.926(b)(2)(A) or (B) of this Part, if applicable, expressed in the terms of ~~the such~~ requirement, i.e., total tons of VOM contained in stain coatings other than stain coating during a consecutive 12-month period or lb VOM/1000 square feet of specialty leather produced on a monthly basis, accompanied by the calculations by which it was determined.;
- 3) On and after ~~an applicable~~ date ~~under~~~~consistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject leather coating operation ~~must~~~~shall~~ notify the Agency:
- A) Of any violation of ~~the requirements of~~ Subpart PP by sending a copy of any record showing a violation to the Agency within 30 days ~~after~~~~following the occurrence of~~ the violation;
 - B) At least 30 calendar days before changing the method of compliance with Subpart PP from ~~using compliant~~~~the use of complying~~ coatings to ~~using~~~~the use~~ capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator ~~must~~~~shall~~ comply with ~~all requirements of~~ subsection (a)(1) or (b)(1) ~~above~~, respectively. ~~After~~~~Upon~~ changing the method of compliance with Subpart PP from ~~using compliant~~~~the use of complying~~ coatings to ~~using~~~~the use~~ capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator ~~must~~~~shall~~ comply with ~~all requirements of~~ subsection (a) or (b) ~~above~~, respectively.

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(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing

<u>CAS No.^a</u>	<u>Chemical</u>
105-57-7	Acetal
75-07-0	Acetaldehyde
107-89-1	Acetaldol
60-35-5	Acetamide
103-84-4	Acetanilide
64-19-7	Acetic acid
108-24-7	Acetic anhydride
67-64-1	Acetone
75-86-5	Acetone cyanohydrin
75-05-8	Acetonitrile
98-86-2	Acetophenone
75-36-5	Acetyl chloride
74-86-2	Acetylene
107-02-8	Acrolein
79-06-1	Acrylamide
79-10-7	Acrylic acid & esters
107-13-1	Acrylonitrile
124-04-9	Adipic acid
111-69-3 ^(b)	Adiponitrile
b)	Alkyl naphthalenes
107-18-6	Allyl alcohol
107-05-1	Allyl chloride
1321-11-5	Aminobenzoic acid
111-41-1	Aminoethylethanolamine
123-30-8	p-aminophenol
628-63-7, 123-92-2	Amyl acetates
71-41-0 ^c	Amyl alcohols
110-58-7	Amyl amine
543-59-9	Amyl chloride
110-68-7 ^c	Amyl mercaptans
1322-06-1	Amyl phenol
62-53-3	Aniline
142-04-1	Aniline hydrochloride

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29191-52-4	Anisidine
100-66-3	Anisole
118-92-3	Anthranilic acid
84-65-1	Anthraquinone
100-52-7	Benzaldehyde
55-21-0	Benzamide
71-43-2	Benzene
98-48-6	Benzenedisulfonic acid

CAS No. ^a	Chemical
98-11-3	Benzenesulfonic acid
134-81-6	Benzil
76-93-7	Benzilic acid
65-85-0	Benzoic acid
119-53-9	Benzoïn
100-47-0	Benzonitrile
119-61-9	Benzophenone
98-07-7	Benzotrichloride
98-88-4	Benzoyl chloride
100-51-6	Benzyl alcohol
100-46-9	Benzylamine
120-51-4	Benzyl benzoate
100-44-7	Benzyl chloride
98-87-3	Benzyl dichloride
92-52-4	Biphenyl
80-05-7	Bisphenol A
10-86-1	Bromobenzene
27497-51-4	Bromonaphthalene
106-99-0	Butadiene
106-98-9	l-butene
123-86-4	n-butyl acetate
141-32-2	n-butyl acrylate
71-36-3	n-butyl alcohol
78-92-2	s-butyl alcohol
75-65-0	t-butyl alcohol
109-73-9	n-butylamine
13952-84-6	s-butylamine
75-64-9	t-butylamine
98-73-7	p-tert-butyl benzoic acid

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107-88-0	1,3-butylene glycol
123-72-8	n-butyraldehyde
107-92-6	Butyric acid
106-31-0	Butyric anhydride
109-74-0	Butyronitrile
105-60-2	Caprolactam
75-1-50	Carbon disulfide
558-13-4	Carbon tetrabromide
55-23-5	Carbon tetrachloride
9004-35-7	Cellulose acetate
79-11-8	Chloroacetic acid
108-42-9	m-chloroaniline
95-51-2	o-chloroaniline
106-47-8	p-chloroaniline
35913-09-8	Chlorobenzaldehyde

CAS No.^a

108-90-7
118-91-2, 535-80-8, 74-11-3^c
2136-81-4, 2136-89-2, 5216-
25-1^c
1321-03-5
75-45-6
25497-29-4
67-66-3
25586-43-0
88-73-3
100-00-5
25167-80-0
126-99-8
7790-94-5
108-41-8
95-49-8
106-43-4
75-72-9
108-39-4
95-48-7
106-44-5
1319-77-3
1319-77-3

Chemical

Chlorobenzene
Chlorobenzoic acid
Chlorobenzotrichloride

Chlorobenzoyl chloride
Chlorodifluoroethane
Chlorodifluoromethane
Chloroform
Chloronaphthalene
o-chloronitrobenzene
p-chloronitrobenzene
Chlorophenols
Chloroprene
Chlorosulfonic acid
m-chlorotoluene
o-chlorotoluene
p-chlorotoluene
Chlorotrifluoromethane
m-cresol
o-cresol
p-cresol
Mixed cresols
Cresylic acid

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4170-30-0	Crotonaldehyde
3724-65-0	Crontonic acid
98-82-8	Cumene
80-15-9	Cumene hydroperoxide
372-09-8	Cyanoacetic acid
506-77-4	Cyanogen chloride
108-80-5	Cyanuric acid
108-77-0	Cyanuric chloride
110-82-7	Cyclohexane
108-93-0	Cyclohexanol
108-94-1	Cyclohexanone
110-83-8	Cyclohexene
108-91-8	Cyclohexylamine
111-78-4	Cyclooctadiene
112-30-1	Decanol
123-42-2	Diacetone alcohol
27576-04-1	Diaminobenzoic acid
95-76-1, 95-82-9, 554-00-7, 608-27-5, 608-31-1, 626-43-7, 27134-27-6, 57311-92-9 ^c	Dichloroaniline
541-73-1	m-dichlorobenzene
95-50-1	o-dichlorobenzene
106-46-7	p-dichlorobenzene
75-71-8	Dichlorodifluoromethane

CAS No.^a

Chemical

111-44-4	Dichloroethyl ether
107-06-2	1,2-dichloroethane (EDC)
96-23-1	Dichlorohydrin
26952-23-8	Dichloropropene
101-83-7	Dicyclohexylamine
109-89-7	Diethylamine
111-46-6	Diethylene glycol
112-36-7	Diethylene glycol diethyl ether
111-96-6	Diethylene glycol dimethyl ether
112-34-5	Diethylene glycol monobutyl ether
124-17-7	Diethylene glycol mononbutyl ether acetate
111-90-0	Diethylene glycol monoethyl ether

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112-15-2	Diethylene glycol monoethyl ether acetate
111-77-3	Diethylene glycol monomethyl ether
64-67-5	Diethyl sulfate
75-37-6	Diffluoroethane
25167-70-8	Diisobutylene
26761-40-0	Diisodecyl phthalate
27554-26-3	Diisooctyl phthalate
674-82-8	Diketene
124-40-3	Dimethylamine
121-69-7	N,N-dimethylaniline
115-10-6	N,N-dimethyl ether
68-12-2	N,N-dimethylformamide
57-14-7	Dimethylhydrazine
77-78-1	Dimethyl sulfate
75-18-3	Dimethyl sulfide
67-68-5	Dimethyl sulfoxide
120-61-6	Dimethyl terephthalate
99-34-3	3,5-dinitrobenzoic acid
51-28-5	Dinitrophenol
	Dinitrotoluene
123-91-1	Dioxane
646-06-0	Dioxilane
122-39-4	Diphenylamine
101-84-4	Diphenyl oxide
102-08-9	Diphenyl thiourea
25265-71-8	Dipropylene glycol
25378-22-7	Dodecene
28675-17-4	Dodecylaniline
27193-86-8	Dodecylphenol
106-89-8	Epichlorohydrin
64-17-5	Ethanol
141-43-5 ^c	Ethanolamines
141-78-6	Ethyl acetate

CAS No.^a

Chemical

141-97-9	Ethyl acetoacetate
140-88-5	Ethyl acrylate
75-04-7	Ethylamine
100-41-4	Ethylbenzene

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74-96-4	Ethyl bromide
9004-57-3	Ethylcellulose
75-00-3	Ethyl chloride
105-39-5	Ethyl chloroacetate
105-56-6	Ethylcyanoacetate
74-85-1	Ethylene
96-49-1	Ethylene carbonate
107-07-3	Ethylene chlorohydrin
107-15-3	Ethylenediamine
106-93-4	Ethylene dibromide
107-21-1	Ethylene glycol
111-55-7	Ethylene glycol diacetate
110-71-4	Ethylene glycol dimethyl ether
111-76-2	Ethylene glycol monobutyl ether
112-07-2	Ethylene glycol monobutyl ether acetate
110-80-5	Ethylene glycol monoethyl ether
111-15-9	Ethylene glycol monoethyl ether acetate
109-86-4	Ethylene glycol monoethyl ether
110-49-6	Ethylene glycol monomethyl ether acetate
122-99-6	Ethylene glycol monophenyl ether
2807-30-9	Ethylene glycol monopropyl ether
75-21-8	Ethylene oxide
60-29-7	Ethyl ether
104-76-7	2-ethylhexanol
122-51-0	Ethyl orthoformate
95-92-1	Ethyl oxalate
41892-71-1	Ethyl sodium oxaloacetate
50-00-0	Formaldehyde
75-12-7	Formamide
64-18-6	Formic acid
110-17-8	Fumaric acid
98-01-1	Furfural
56-81-5	Glycerol (Synthetic)
26545-73-7	Glycerol dichlorohydrin
25791-96-2	Glycerol triether
56-40-6	Glycine
107-22-2	Glyoxal
118-74-1	Hexachlorobenzene
67-72-1	Hexachloroethane
36653-82-4	Hexadecyl alcohol

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124-09-4 Hexamethylenediamine

CAS No.^a

Chemical

Commented [BW153]: Same here

629-11-8	Hexamethylene glycol
100-97-0	Hexamethylenetetramine
74-90-8	Hydrogen cyanide
123-31-9	Hydroquinone
99-96-7	p-hydroxybenzoic acid
26760-64-5	Isoamylene
78-83-1	Isobutanol
110-19-0	Isobutyl acetate
115-11-7	Isobutylene
78-84-2	Isobutyraldehyde
79-31-2	Isobutyric acid
25339-17-7	Isodecanol
26952-21-6	Isooctyl alcohol
78-78-4	Isopentane
78-59-1	Isophorone
121-91-5	Isophthalic acid
78-79-5	Isoprene
67-63-0	Isopropanol
108-21-4	Isopropyl acetate
75-31-0	Isopropylamine
75-29-6	Isopropyl chloride
25168-06-3	Isopropylphenol
463-51-4	Ketene
^b	Linear alkyl sulfonate*
123-01-3	Linear alkylbenzene
110-16-7	Maleic acid
108-31-6	Maleic anhydride
6915-15-7	Malic acid
141-79-7	Mesityl oxide
121-47-1	Metanilic acid
79-41-4	Methacrylic acid
563-47-3	Methallyl chloride
67-56-1	Methanol
79-20-9	Methyl acetate
105-45-3	Methyl acetoacetate
74-89-5	Methylamine
100-61-8	n-methylaniline

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74-83-9	Methyl bromide
37365-71-2	Methyl butynol
74-87-3	Methyl chloride
108-87-2	Methyl cyclohexane
1331-22-2	Methyl cyclohexanone
75-09-2	Methylene chloride
101-77-9	Methylene dianiline
101-68-8	Methylene diphenyl diisocyanate

CAS No.^a

78-93-3	<u>Chemical</u>
107-31-3	Methyl ethyl ketone
108-11-2	Methyl formate
108-10-1	Methyl isobutyl carbinol
80-62-6	Methyl isobutyl ketone
77-75-8	Methyl methacrylate
98-83-9	Methylpentynol
110-91-8	B-methylstyrene
85-47-2	Morpholine
120-18-3	a-naphthalene sulfonic acid
90-15-3	B-naphthalene sulfonic acid
135-19-3	a-naphthol
75-98-9	B-naphthol
88-74-4	Neopentanoic acid
100-01-6	o-nitroaniline
91-23-6	p-nitroaniline
100-17-4	o-nitroanisole
98-95-3	p-nitroanisole
27178-83-2 ^c	Nitrobenzene
79-24-3	Nitrobenzoic acid (o, m & p)
75-52-5	Nitroethane
88-75-5	Nitromethane
25322-01-4	Nitrophenol
1321-12-6	Nitropropane
27215-95-8	Nitrotoluene
25154-52-3	Nonene
27193-28-8	Nonylphenol
123-63-7	Octylphenol
115-77-5	Paraldehyde
109-66-0	Pentaerythritol
	n-pentane

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109-67-1	l-pentene
127-18-4	Perchloroethylene
594-42-3	Perchloromethyl mercaptan
94-70-2	o-phenetidine
156-43-4	p-phenetidine
108-95-2	Phenol
98-67-9, 585-38-6, 609-46-1, 133-39-7 ^c	Phenolsulfonic acids
91-40-7 (b)	Phenyl anthranilic acid
75-44-5	Phenylenediamine
85-44-9	Phosgene
85-41-6	Phthalic anhydride
108-99-6	Phthalimide
110-85-0	b-picoline
9003-29-6, 25036-29-7 ^c	Piperazine
	Polybutenes

<u>CAS No.</u> ^a	<u>Chemical</u>
25322-68-3	Polyethylene glycol
25322-69-4	Polypropylene glycol
123-38-6	Propionaldehyde
79-09-4	Propionic acid
71-23-8	n-propyl alcohol
107-10-8	Propylamine
540-54-5	Propyl chloride
115-07-1	Propylene
127-00-4	Propylene chlorohydrin
78-87-5	Propylene dichloride
57-55-6	Propylene glycol
75-56-9	Propylene oxide
110-86-1	Pyridine
106-51-4	Quinone
108-46-3	Resorcinol
27138-57-4	Resorecylic acid
69-72-7	Salicylic acid
127-09-3	Sodium acetate
532-32-1	Sodium benzoate
9004-32-4	Sodium carboxymethyl cellulose
3926-62-3	Sodium chloroacetate
141-53-7	Sodium formate

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Align with above list

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139-02-6	Sodium phenate
110-44-1	Sorbic acid
100-42-5	Styrene
110-15-6	Succinic acid
110-61-2	Succinitrile
121-57-3	Sulfanilic acid
126-33-0	Sulfolane
1401-55-4	Tannic acid
100-21-0	Terephthalic acid
~~78-00-2~~	~~Tetra ethyl lead~~
79-34-5 ^c	Tetrachloroethanes
117-08-8	Tetrachlorophthalic anhydride
~~78-00-2~~	~~Tetraethyllead~~
119-64-2	Tetrahydronaphthalene
85-43-8	Tetrahydrophthalic anhydride
75-74-1	~~Tetramethyl lead~~ ~~Tetramethyllead~~
110-60-1	Tetramethylenediamine
110-18-9	Tetramethylethylenediamine
108-88-3	Toluene
95-80-7	Toluene-2,4-diamine
584-84-9	Toluene-2,4-diisocyanate
26471-62-5	Toluene diisocyanates (mixture)
1333-07-9	Toluene sulfonamide
104-15-4 ^c	Toluenesulfonic acids

CAS No. ^a

98-59-9	<u>Chemical</u>
26915-12-8	Toluene sulfonyl chloride
87-61-6, 108-70-3, 120-82-1 ^c	Toluidines
71-55-6	Trichlorobenzenes
79-00-5	1,1,1-trichloroethane
79-01-6	1,1,2-trichloroethane
75-69-4	Trichloroethylene
96-18-4	Trichlorofluoromethane
76-13-1	1,2,3-trichloropropane
121-44-8	1,1,2-trichloro-1,2,2-trifluoroethane
112-27-6	Triethylamine
112-49-2	Triethylene glycol
	Triethylene ~~glycol dimethyl glyceoldimethyl-~~
	ether
7756-94-7	Triisobutylene

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Aligned correctly

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75-50-3	Trimethylamine
57-13-6	Urea
108-05-4	Vinyl acetate
75-01-4	Vinyl chloride
75-35-4	Vinylidene chloride
25013-15-4	Vinyl toluene
1330-20-7	Xylenes (mixed)
95-47-6	o-xylene
106-42-3	p-xylene
1300-71-6	Xylenol
1300-73-8	Xylidine
(b)	methyl tert-butyl ether
9002-88-4	Polyethylene
(b)	Polypropylene
9009-53-6	Polystyrene

a) CAS numbers refer to the Chemical Abstracts Registry numbers assigned to specific chemicals, isomers, or mixtures of chemicals. Some isomers or mixtures that are covered by the standards do not have CAS numbers assigned to them. The standards apply to all ~~of~~ the chemicals listed, whether CAS numbers have been assigned and listed or not.

Commented [SKA157]: Strike and add "Registry"

b) ~~No~~ CAS number(s) have not been assigned to this chemical, ~~to~~ its isomers, or mixtures containing these chemicals.

e) ~~CAS numbers for some of the isomers are listed. The standards apply to all of the isomers and mixtures, even if CAS numbers have not been assigned.~~

Commented [JS158]: Excess strike here. Also, a) through c) are to be indented.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX C Reference Methods and Procedures

Introduction

This Appendix presents the reference methods and procedures required for implementing Reasonably Available Control Technology (RACT). Methods and procedures are identified for two types of RACT implementation:

- a) ~~Determining~~Determination of VOM destruction efficiency ~~to evaluate for evaluating~~ compliance with the ~~98% by weight~~98 weight percent VOM reduction or 20 ppmv emission limit ~~specified in Sections 218.520 through 218.527 of this Part;~~ and

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- b) ~~Determining~~Determination of offgas flowrate, hourly emissions, and stream net heating value ~~to calculate~~for calculating TRE.

All reference methods identified in this Appendix refer to the reference methods ~~specified at 40 CFR 60. Appendix 60, Appendix A, incorporated by reference in Section 218.112 of this Part.~~

VOM DESTRUCTION EFFICIENCY DETERMINATION

The following reference methods and procedures are required ~~to determine~~for determining compliance with the percent destruction efficiency ~~specified in Sections 218.520 through 218.527 of this Part.~~

- a) Reference Method 1 or 1A ~~to select~~for selection of the sampling site. The control device inlet sampling site ~~to determine~~for determination of vent stream molar composition or total organic compound destruction efficiency ~~must~~shall be ~~before~~prior to the inlet of any control device and after all recovery devices.
- b) Reference Methods 2, 2A, 2C₁ or 2D ~~to determine~~for determination of the volumetric flowrate.
- c) Reference Method 3 to measure oxygen concentration of the air dilution correction. The emission sample ~~must~~shall be corrected to ~~3%3 percent~~ oxygen.
- d) Reference Method 18 to determine the concentration of total organic compounds ~~(excluding~~minus methane and ethane) in the control device outlet and total organic compound reduction efficiency of the control device.

TRE DETERMINATION

The following reference methods and procedures are required ~~to determine~~for determining the offgas flowrate, hourly emissions, and the net heating value of the gas combusted to calculate the vent stream TRE.

- a) Reference Method 1 or 1A ~~to select~~for selection of the sampling site. The sampling site for the vent stream flowrate and molar composition ~~determinations~~determination prescribed in subsections (b) and (c) ~~must~~shall be ~~before~~prior to the inlet of any combustion device, ~~before~~prior to any post-reactor dilution of the stream with air, and ~~before~~prior to any post-reactor introduction of halogenated compounds into the vent stream. Subject to the preceding restrictions

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on the sampling site, it ~~must~~shall be after the final recovery device. If any gas stream other than the air oxidation vent stream is normally conducted through the recovery system of the affected facility, ~~the~~such stream ~~must~~shall be rerouted or turned off while the vent stream is sampled, but ~~must~~shall be routed normally ~~before prior to the measuring of~~ the initial value of the monitored parameters ~~to determine for determining~~ compliance with the recommended RACT. If the air oxidation vent stream is normally routed through any equipment which is not a part of the air oxidation process as defined in 35 Ill. Adm. Code 211.350, ~~the~~such equipment ~~must~~shall be bypassed by the vent stream while the vent stream is sampled, but ~~must~~shall not be bypassed ~~while measuring during the measurement of~~ the initial value of the monitored parameters ~~to determine for determining~~ compliance with Subpart V.

- b) The molar composition of the vent stream ~~must~~shall be determined using the following methods:
- 1) Reference Method 18 to measure the concentration of all organics, including those containing halogens, unless a significant portion of the compounds of interest are polymeric (high molecular weight), can polymerize before analysis, or have low vapor pressures, in which case Reference Method 25(a) ~~must~~shall be used.
 - 2) ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography ~~D1946-67 (reapproved 1977)~~, incorporated by reference in Section ~~215.105248.112 of this Part~~, to measure the concentration of carbon monoxide and hydrogen.
 - 3) Reference Method 4 to measure the content of water vapor, if necessary.
- c) The volumetric flowrate ~~must~~shall be determined using Reference Method 2, 2A, 2C, or 2D, as appropriate.
- d) The net heating value of the vent stream ~~must~~shall be calculated using the following equation:

$$H = K \sum_{i=1}^n C_i H_i$$

where:

Commented [BW159]: Add a line of space below

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H = Net heating value of the sample, MJ/ppm, where the net enthalpy per mole of offgas is based on combustion at 25 °C~~25°-C~~ and 760 ~~mmHg~~~~mm Hg~~, but the standard temperature ~~to determine for~~ determining the volume corresponding to one mole is 20 °C~~20°C~~, as in the definition of F (vent stream flowrate) in subsection (c) below

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And other examples in this section

K = Constant; $1.740 \times 10^{-7} \times 10^{(-7)} (\text{ppm})^{-1} (1/\text{ppm})$ (mole/scm) (MJ/kcal), where standard temperature for mole/scm is 20 °C~~20°C~~

C[i] = Concentration of sample component i, reported on a wet basis, in ppm, as measured by Reference Method 18 or ASTM D1946-90 (2019) – Standard Practice ofr Analysis of Reformed Gas by Gas Chromatography~~D1946-67 (reapproved 1977)~~, incorporated by reference in Section 215.105218.112 of this Part.

Commented [BW161]: Should not have brackets here or below and show as:
 C_i
 H_i

Commented [SKA162R161]: Disagree. The brackets are on file. Recommend striking and correcting with the recommended text.

H[i] = Net heat of combustion of sample component i, kcal/mole based on combustion at 25 °C~~25-C~~ and 760 ~~mmHg~~~~mm Hg~~. If published values are not available or cannot be calculated, the heats of combustion of vent stream components ~~must are required to~~ be determined using ASTM D4809-18~~D2382-76~~, incorporated by reference in Section 218.112 ~~of this Part~~.

- e) The emission rate of total organic compounds in the process vent stream ~~must shall~~ be calculated using the following equation:

$$E = K \sum_{i=1}^N F \sum C_i M_i$$

Where:

E = Emission rate of total organic compounds (~~excluding minus~~ methane and ethane) in the sample in kg/hr;

K = Constant $2.494 \times 10^{-6} \times 10^{(-6)} (\text{ppm})^{-1} (1/\text{ppm})$ (mole/scm)- (kg/g) (min/hr), where standard temperature for (mole/scm) is 20 °C~~20°C~~;

M_i = Molecular weight of sample component i (g/mole)

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 M_i

F = Vent stream flowrate (scm/min), at a standard temperature of 20 °C~~20°C~~

Commented [SKA164R163]: Disagree. The brackets are on file. Recommend striking and correcting with the recommended text

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- f) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) ~~must~~shall be summed from the individual concentrations of compounds containing halogens which were measured by Reference Method 18.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX D Coefficients for the Total Resource Effectiveness (TRE) Index ~~(TRE)~~-Equation

This Appendix contains values for the TRE ~~total resource effectiveness~~-index ~~(TRE)~~-equation in Subpart V.

If a flow rate falls exactly on the boundary between the indicated ranges, the operator ~~must~~shall use the row in which the flow rate is maximum.

**COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS
WITH NET HEATING VALUE LESS THAN OR EQUAL TO 3.5 MJ/scm**

**FLOW RATE
(scm/min)**

Min.	Max.	a	b	c	d	e	f
0.0	13.5	48.73	0.	0.404	-0.1632	0.	0.
13.5	700.	42.35	0.624	0.404	-0.1632	0.	0.0245
700.	1400.	84.38	0.678	0.404	-0.1632	0.	0.0346
1400.	2100.	126.41	0.712	0.404	-0.1632	0.	0.0424
2100.	2800.	168.44	0.747	0.404	-0.1632	0.	0.0490
2800.	3500.	210.47	0.758	0.404	-0.1632	0.	0.0548

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Commented [BW166]: Remove extra line of space

**COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS
WITH NET HEATING VALUE GREATER THAN 3.5 MJ/scm**

**FLOW RATE
(scm/min)**

Min.	Max.	a	b	c	d	e	f
0.	13.5	47.76	0.	-0.292	0.	0.	0.
13.5	700.	41.58	0.605	-0.292	0.	0.	0.0245

Commented [BW167]: Remove extra spaces here

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700.	1400.	82.84	0.658	-0.292	0.	0.	0.0346
1400.	2100.	123.10	0.691	-0.292	0.	0.	0.0424
2100.	2800.	165.36	0.715	-0.292	0.	0.	0.0490
2800.	3500.	206.62	0.734	-0.292	0.	0.	0.0548

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE LESS THAN OR EQUAL TO 0.48 MJ/Scm

FLOW RATE

(scm/min)							
Min.	Max.	a	b	c	d	e	f
0.	13.5	19.05	0.	0.113	-0.214	0.	0.
13.5	1350.	16.61	0.239	0.113	-0.214	0.	0.0245
1350.	2700.	32.91	0.260	0.113	-0.214	0.	0.0346
2700.	4050.	49.21	0.273	0.113	-0.214	0.	0.0424

Commented [BW168]: Same here

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 0.48 AND LESS THAN OR
EQUAL TO 1.9 MJ/scm

FLOW RATE

(scm/min)							
Min.	Max.	a	b	c	d	e	f
0.	13.5	19.74	0.	0.400	-0.202	0.	0.
13.5	1350.	18.30	0.138	0.400	-0.202	0.	0.0245
1350.	2700.	36.28	0.150	0.400	-0.202	0.	0.0346
2700.	4050.	54.26	0.158	0.400	-0.202	0.	0.0424

Commented [BW169]: See above

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 1.9 AND LESS THAN OR
EQUAL TO 3.6 MJ/scm

FLOW RATE

(scm/min)							
Min.	Max.	a	b	c	d	e	f
.0	13.5	15.24	0.	0.033	0.	0.	0.

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13.5	1190.	13.63	0.157	0.033	0.	0.	0.0245
1190.	2380.	26.95	0.171	0.033	0.	0.	0.0346
2380.	3570.	40.27	0.179	0.033	0.	0.	0.0424

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 3.6 MG/scm

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.	13.5	15.24	0.	0.	0.0090	0.	0.
13.5	1190.	13.63	0.	0.	0.0090	0.0503	0.0245
1190.	2380.	26.95	0.	0.	0.0090	0.0546	0.0346
2380.	3570.	40.27	0.	0.	0.0090	0.0573	0.0424

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX E List of Affected Marine Terminals

The following table identifies the expected ~~volatile organic material (VOM)~~ emission reductions, in pounds per day in 1996, from the control of the marine vessel loading of gasoline and crude oil from the listed sources, their successors, and their assigns. ~~The~~Such reduction of VOM emissions must occur after November 1990 and ~~must~~may not include reductions resulting from compliance with any federally required controls or from any measures included in any ~~SIP~~State Implementation Plan adopted by the State of Illinois to satisfy any other ~~CAA~~Clean Air Act requirement.

<u>Facility</u>	<u>Permit/Source</u>	<u>Reduction</u>
Mobil-Joliet Refining Corp. Facility ID# 197800AAA	88010021045	1,595
Texaco Refining Facility ID # 197810AAA	84050048007	541
UNO-VEN Company Facility ID # 197090AAI	88010019055	549

(Source: Amended at 50 Ill. Reg. _____, effective _____)

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Section 218. **Appendix G TRE Index Measurements for SOCM Reactors and Distillation Units**

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For ~~purposes of Subpart Q~~, Sections 218.431 through 218.435, the following apply:

- a) The following test methods ~~must~~shall be used to determine compliance with the ~~total resource effectiveness ("TRE")~~ index value:
 - 1) Method 1 or 1A, incorporated by reference at Section 218.112 ~~of this Part~~, as appropriate, ~~to select~~for selection of the sampling site.
 - A) The sampling site for the vent stream molar composition determination and flow rate ~~prescribed~~ in subsections (a)(2) and (a)(3) ~~must of this Appendix shall~~ be, except for the situations ~~outlined~~ in subsection (a)(1)(B), after the final recovery device; if a recovery system is present, ~~before prior to~~ the inlet of any control device, and ~~before prior to~~ any post-reactor or post-distillation unit introduction of halogenated compounds into the vent stream. ~~A~~No traverse site selection method is not needed for vents smaller than 10 cm in diameter.
 - B) If any gas stream other than the reactor or distillation unit vent stream is normally conducted through the final recovery device:
 - i) The sampling site for vent stream flow rate and molar composition ~~must~~shall be ~~before prior to~~ the final recovery device and ~~before prior to~~ the point at which any nonreactor or nondistillation unit vent stream or stream from a nonaffected reactor or distillation unit is introduced. Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, ~~must~~shall be used to measure organic compound concentrations at this site.
 - ii) The efficiency of the final recovery device is determined by measuring the organic compound concentrations using Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, at the inlet to the final recovery device after the introduction of all vent streams and at the outlet of the final recovery device.

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- iii) The efficiency of the final recovery device determined according to subsection (a)(1)(B)(ii) ~~must of this Appendix shall~~ be applied to the organic compound concentrations measured according to subsection (a)(1)(B)(i) ~~of this Appendix~~ to determine the concentrations of organic compounds from the final recovery device attributable to the reactor or distillation unit vent stream. The resulting organic compound concentrations are then used to perform the calculations ~~outlined in subsection (a)(4) of this Appendix.~~
- 2) The molar composition of the vent stream ~~must shall~~ be determined as follows:
- A) Method 18, incorporated by reference at Section 218.112 ~~of this Part,~~ to measure the concentration of organic compounds, including those containing halogens;
- B) ASTM ~~D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography~~ ~~D1946-77,~~ incorporated by reference at Section ~~215.105~~ ~~218.112 of this Part,~~ to measure the concentration of carbon monoxide and hydrogen; and
- C) Method 4, incorporated by reference at Section 218.112 ~~of this Part,~~ to measure the content of water vapor.
- 3) The volumetric flow rate ~~must shall~~ be determined using Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112 ~~of this Part,~~ as appropriate.
- 4) The emission rate of VOM (~~excluding minus~~ methane and ethane) (E_{VOM}) in the vent stream ~~must shall~~ be calculated using the following formula:

$$E_{VOM} = K_r \sum_{j=1}^n C_j M_j Q_j$$

where:

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E_{VOM} = Emission rate of VOM (~~excluding~~~~minus~~ methane and ethane) in the sample, kg/hr.

K_2 = Constant, 2.494×10^{-6} (~~ppm~~)⁻¹(~~/ppmv~~) (g-mole/scm)(kg/g). (min/hr), where standard temperature for (g-mole/scm) is ~~20 °C~~~~20 °C~~.

C_j = Concentration of compound j, on a dry basis, in ppmv as measured by Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, as indicated in Section 218.433(c)(3) ~~of this Part~~.

M_j = Molecular weight of sample j, g/g-mole.

Q_s = Vent stream flow rate (scm) at a temperature of ~~20 °C~~~~20 °C~~.

5) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) ~~must~~~~shall~~ be summed from the individual concentrations of compounds containing halogens which were measured by Method 18, incorporated by reference at Section 218.112 ~~of this Part~~.

6) The net heating value of the vent stream ~~must~~~~shall~~ be calculated using the following:

$$H_T = K_1 \sum_{j=1}^n C_j H_j (1 - B_{H_2})$$

where:

H_T = Net heating value of the sample (MJ/scm), where the net ~~enthalpy~~~~enthalpy~~ per mole of vent stream is based on combustion of ~~25 °C~~~~25 °C~~ and 760 ~~mmHg~~~~mmHg~~, but the standard temperature ~~to determine~~~~for determining~~ the volume corresponding to one mole is ~~20 °C~~~~20 °C~~, as in the definition of Q_s (vent stream flow rate).

K_1 = Constant; 1.740×10^{-7} (ppmv)⁻¹ (g-mole/scm); ~~(MJ/kcal)~~~~(MJ/Kcal)~~, where standard temperature for (g-mole/scm) is ~~20 °C~~~~20 °C~~.

Commented [BW173]: Should be a tab over before each =
Also remove line of space between examples
See :
Amended at 20 Ill. Reg. 14428, effective October 17, 1996

Commented [BW174]: See above comment regarding =

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B_{ws} = Water vapor content of the vent stream, proportion by volume; except that if the vent stream passes through a final stream jet and is not condensed, it ~~must~~ shall be assumed that $B_{ws} = 0.023$ ~~in order to correct to 2.3%2.3 percent~~ moisture.

C_j = Concentration on a dry basis of compound j in ppmv, as measured for all organic compounds by Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, and measured for hydrogen and carbon monoxide by using ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography ~~D1946-77~~, incorporated by reference at Section 215.105218.112 of this Part.

H_j = Net heat of combustion of compound j, ~~kcal/g-mole~~ Cal/g-mole, based on combustion at ~~25 °C25 °C~~ and 760 ~~mmHgmmHG~~. The heats of combustion of vent stream components ~~must~~ shall be determined using ASTM D4809-18D2382-83, incorporated by reference at Section 218.112 ~~of this Part~~, if published values are not available or cannot be calculated.

- b) 1) The TRE index value of the vent ~~must~~ shall be calculated using the following:

$$TRE = \frac{1[a + b(Q_s) + c(H_T) + d(E_{VOM})]}{E_{VOM}}$$

where:

TRE = TRE index value.

E_{VOM} = Hourly emission rate of VOM (kg/hr) as calculated in subsection (a)(4) ~~of this Appendix~~.

Q_s = Vent stream flow rate scm/min at a standard temperature of 20 °C20 °C.

H_T = Vent stream net heating value (MJ/scm), as calculated in subsection (a)(6) ~~of this Appendix~~.

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E_{VOM} = Hourly emission rate of VOM (~~excluding minus~~ methane and ethane); (kg/hr)_a as calculated in subsection (a)(4) ~~of this Appendix.~~

a,b, = Value of coefficients presented below are:
c,d

Type of Stream	Control Device Basis	Value of Coefficients			
		a	b	c	d
Nonhalogenated	Flare	2.129	0.183	-0.005	0.359
Thermal incinerator, ~~0%zero (0) Percent~~ heat ~~recoveryRecovery~~		3.075	0.021	-0.037	0.018
Thermal incinerator, ~~70%70 Percent~~ heat ~~recoveryRecovery~~		3.803	0.032	-0.042	0.007
Halogenated	Thermal incinerator and scrubber	5.470	0.181	-0.040	0.004

Commented [BW176]: This should be aligned under the above example.
Again see
Amended at 20 Ill. Reg. 14428, effective October 17, 1996

2) Every owner or operator of a vent stream ~~mustshall~~ use the applicable coefficients identified for values a, b, c, and d in subsection (b)(1) ~~of this Appendix~~ to calculate the TRE index value based on a flare, a thermal incinerator with ~~0%zero percent~~ heat recovery, and a thermal incinerator with ~~70%70 percent~~ heat recovery, and ~~mustshall~~ select the lowest TRE index value.

3) Every owner or operator of a reactor or distillation unit with a halogenated vent stream, determined as any stream with a total concentration of halogen atoms contained in organic compounds of 200 ppmv or greater, ~~mustshall~~ use the applicable coefficients identified for values a, b, c, and d in subsection (b) (1) ~~of this Appendix~~ to calculate the TRE index value based on a thermal incinerator and scrubber.

c) Every owner or operator of a source seeking to comply with Section 218.432-(b) ~~mustof this Part shall~~ recalculate the flow rate and VOM concentration for each

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affected vent stream whenever process changes are made. Examples of process changes include, ~~but are not limited to,~~ changes in production capacity, feedstock type, or catalyst type, or whenever recovery equipment is replaced, removed, or added~~there is replacement, removal, or addition of recovery equipment.~~ The flow rate and VOM concentration must~~shall~~ be recalculated based on test data, or on best engineering estimates of the effects of the change to the recovery system.

- d) Whenever a process change, as defined in Section 218.435(c) ~~of this Subpart,~~ yields a TRE index value of 1.0 or less, the owner or operator must~~shall~~ notify and submit a report to the Agency under~~according to the requirements specified in~~ Section 218.435(c) ~~of this Subpart,~~ within 180 calendar days after the process change and must~~shall~~ conduct a performance test under~~according to the methods and procedures required by~~ Section 218.433 ~~of this Part.~~
- e) To determine~~For the purpose of demonstrating~~ that a process vent stream has a VOM concentration below 500 ppmv, the following must~~shall~~ be used:
- 1) The sampling site must~~shall~~ be selected as ~~specified in~~ Section 218.433(c)(1) ~~of this Part.~~
 - 2) Method 18 or Method 25A of 40 CFR Part 60, ~~Appendices A-6 and A-760,~~ Appendix A, incorporated by reference at Section 218.112 ~~of this Part,~~ must~~shall~~ be used to measure concentration; Alternatively~~alternatively,~~ any other method or data that has been validated according to the protocol in Method 301 of 40 CFR ~~Part 63, Appendix 63, Appendix~~ A, incorporated by reference at Section 218.112 ~~of this Part,~~ may be used.
 - 3) If~~Where~~ Method 18 is used, the following procedures must~~shall~~ be used to calculate ppmv concentration:
 - i) The minimum sampling time for each run must~~shall~~ be one~~1~~ hour, in which either an integrated sample or four grab samples must~~shall~~ be taken. If grab sampling is used, then the samples must~~shall~~ be taken at approximately equal intervals in time, such as 15-minute~~15 minute~~ intervals during the run.
 - ii) The concentration of VOM must~~shall~~ be calculated using Method 18 according to Section 218.433(c)(4) ~~of this Part.~~

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- 4) ~~If Where~~ Method 25A is used, the following procedures ~~must~~shall be used to calculate ppmv VOM concentration:
- i) Method 25A ~~must~~shall be used only if a single VOM is greater than ~~50%50 percent~~ of total VOM, by volume, in the process vent stream.
 - ii) The vent stream composition may be determined by either process knowledge, test data collected using an appropriate Reference Method, or a method of data collection validated according to the protocol in Method 301 of 40 CFR ~~Part 63. Appendix 63, Appendix A, incorporated by reference at Section 218.112 of this Part.~~ Examples of information that constitute process knowledge include calculations based on material balances, process stoichiometry, or previous test results ~~if provided~~ the results are still relevant to the current process vent stream conditions.
 - iii) The VOM used as the calibration gas for Method 25A ~~must~~shall be the single VOM present at greater than ~~50%50 percent~~ of the total VOM by volume.
 - iv) The span value for Method 25A ~~must~~shall be 50 ppmv.
 - v) Use of Method 25A is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.
 - vi) The concentration of VOM ~~must~~shall be corrected to ~~3%3 percent~~ oxygen using the procedures and equation in Section 218.433(c)(3) ~~of this Part.~~
- 5) The owner or operator ~~must~~shall demonstrate that the concentration of VOM, including methane and ethane, measured by Method 25A is below 250 ppmv to qualify for the low concentration exclusion in Section 218.431 ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

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This Appendix contains limitations ~~to determine for purposes of determining~~ compliance with ~~the requirements in~~ Section 218.212 ~~of this Part~~. A source must establish that, at ~~the~~ very least, each participating coating line used for ~~purposes of~~ cross-line averaging meets the ~~FIP Federal Implementation Plan~~ level of VOM content, ~~as~~ listed below. The emission limitations for participating coating lines that must not be exceeded are ~~as follows~~:

a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal
1)	Prime coat	0.14	(1.2)
2)	Primer surface coat	1.81	(15.1)

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation ~~must~~shall be based on the daily-weighted average from an entire primer surface operation. Compliance ~~must~~shall be demonstrated in ~~compliance~~accordance with the topcoat protocol ~~referenced~~ in Section 218.105(b) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~must~~shall be performed in ~~compliance~~accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surface limitation.)

3)	Topcoat	kg/l	lb/gal
		1.81	(15.1)

(Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation ~~must~~shall be based on the daily-weighted average from an entire topcoat operation. Compliance ~~must~~shall be demonstrated in ~~compliance~~accordance with the topcoat protocol ~~referenced~~ in Section 218.105(b) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~must~~shall be performed in ~~compliance~~accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 ~~of this Part~~ does not apply to the topcoat limitation.)

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		kg/l	lb/gal
4)	Final repair coat	0.58	(4.8)
b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.34	(2.8)
3)	Interior body spray coat	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)
c)	Paper Coating	kg/l	lb/gal
		0.35	(2.9)

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(Note: The paper coating limitation ~~does shall~~ not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 218.401 ~~of this Part~~. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT ~~of this Part~~.)

		kg/l	lb/gal
d)	Coil Coating	0.31	(2.6)
e)	Fabric Coating	0.35	(2.9)
f)	Vinyl Coating	0.45	(3.8)
g)	Metal Furniture Coating		
1)	Air Dried	0.36	(3.0)
2)	Baked	0.36	(3.0)

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h) Large Appliance Coating

1)	Air Dried	0.34	(2.8)
2)	Baked	0.34	(2.8)

(Note: The limitation ~~does~~shall not apply to ~~using~~the use of quick-drying lacquers ~~to~~for repair ~~of~~ scratches and nicks that occur during assembly, ~~if~~provided that the volume of coating ~~is~~does not exceed 0.95 l (1 quart) or less in any one rolling eight-hour period.)

i) Magnet Wire Coating

	kg/l	lb/gal
	0.20	(1.7)

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j) Miscellaneous Metal Parts and Products Coating

1)	Clear coating	0.52	(4.3)
2)	Extreme performance coating		
	A) Air Dried	0.42	(3.5)
	B) Baked	0.42	(3.5)
3)	Steel pail and drum interior coating	0.52	(4.3)
4)	All other coatings		
	A) Air Dried	0.42	(3.5)
	B) Baked	0.36	(3.0)

k) Heavy Off-Highway Vehicle Products Coating

	kg/l	lb/gal
1)	Extreme performance prime coat	0.42 (3.5)
2)	Extreme performance ~~topcoat~~ <u>top-coat</u> (air dried)	0.42 (3.5)
3)	Final repair coat (air dried)	0.42 (3.5)

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- 4) All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) ~~above~~.

l)	Wood Furniture Coating	kg/l	lb/gal
1)	Clear topcoat	0.67	(5.6)
2)	Opaque stain	0.56	(4.7)
3)	Pigmented coat	0.60	(5.0)
4)	Repair coat	0.67	(5.6)
5)	Sealer	0.67	(5.6)
6)	Semi-transparent stain	0.79	(6.6)
7)	Wash coat	0.73	(6.1)

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(Note: An owner or operator of a wood furniture coating operation subject to this Section ~~must~~shall apply all coatings, ~~with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations,~~ using at least one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system, or high volume low pressure (HVLP) application system. Touch-up and repair operations must not exceed 37.8 l (10 gal) of coating used per day.)

- m) Existing Diesel-Electric Locomotive Coating Lines in Cook County
- | | | | |
|----|---|------|--------|
| | | kg/l | lb/gal |
| 1) | Extreme performance prime coat | 0.42 | (3.5) |
| 2) | Extreme performance topcoat (air dried) | 0.42 | (3.5) |

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3)	Final repair coat (air dried)	0.42	(3.5)
4)	High-temperature aluminum coating	0.72	(6.0)
5)	All other coatings	0.36	(3.0)
n)	Plastic Parts Coating: Automotive/Transportation	kg/l	lb/gal
1)	Interiors		
	A) Baked		
	i) Color Coat	0.49	(4.1)
	ii) Primer	0.46	(3.8)
	B) Air Dried		
	i) Color Coat	0.38	(3.2)
	ii) Primer	0.42	(3.5)
2)	Exteriors (flexible and non-flexible)		
	A) Baked		
	i) Primer	0.60	(5.0)
	ii) Primer non-flexible	0.54	(4.5)
	iii) Clear Coat	0.52	(4.3)
	iv) Color Coat	0.55	(4.6)
	B) Air Dried		
	i) Primer	0.66	(5.5)
	ii) Clear coat	0.54	(4.5)

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- iii) Color coat (red & black) 0.67 (5.6)
 - iv) Color coat (others) 0.61 (5.1)
- 3) Specialty
 - A) Vacuum metallizing basecoats, texture basecoats 0.66 (5.5)
 - B) Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings 0.71 (5.9)
 - C) Gloss reducers, vacuum metallizing topcoats, and texture topcoats 0.77 (6.4)
 - D) Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings 0.82 (6.8)
 - E) Head lamp lens coatings 0.89 (7.4)
- o) Plastic Parts Coating: Business Machine kg/l lb/gal
 - 1) Primer 0.14 (1.2)
 - 2) Color coat (non-texture coat) 0.28 (2.3)
 - 3) Color coat (texture coat) 0.28 (2.3)
 - 4) Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings 0.48 (4.0)
 - 5) Specialty Coatings

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A)	Soft coat	0.52	(4.3)
B)	Plating resist	0.71	(5.9)
C)	Plating sensitizer	0.85	(7.1)*

(Source: Amended at 50 Ill. Reg. _____, effective _____)

TITLE 35: ENVIRONMENTAL PROTECTION
 SUBTITLE B: AIR POLLUTION
 CHAPTER I: POLLUTION CONTROL BOARD
 SUBCHAPTER c: EMISSIONS STANDARDS AND
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 ORGANIC MATERIAL EMISSION STANDARDS AND
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276	Section	
277	218.680	Applicability
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290	218.728	Recordkeeping and Reporting (Repealed)
291	218.729	Compliance Date (Repealed)
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298	218.762	Control Requirements
299	218.764	Compliance Certification
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306 Section

307 218.780 Emission Limitations

308 218.782 Alternative Control Requirements

309 218.784 Equipment Specifications

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311 218.787 Work Practices

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319 218.879 Compliance Date (Repealed)

320 218.881 Compliance Plan (Repealed)

321 218.883 Special Requirements for Compliance Plan (Repealed)

322 218.886 Emissions Testing (Renumbered)

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328 218.891 Emission Limitations and Control Requirements

329 218.892 Testing Requirements

330 218.894 Recordkeeping and Reporting Requirements

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333 Section

334 218.900 Applicability

335 218.901 Emission Limitations and Control Requirements

336 218.902 Testing Requirements

337 218.903 Monitoring Requirements

338 218.904 Recordkeeping and Reporting Requirements

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340 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
341 MANUFACTURING PROCESSES

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343 Section

344 218.920 Applicability

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347	218.927	Compliance Schedule
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364	Section	
365	218.960	Applicability
366	218.963	Permit Conditions (Repealed)
367	218.966	Control Requirements
368	218.967	Compliance Schedule
369	218.968	Testing
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373	Section	
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375	218.983	Permit Conditions (Repealed)
376	218.986	Control Requirements
377	218.987	Compliance Schedule
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386	218.APPENDIX A	List of Chemicals Defining Synthetic Organic Chemical and Polymer
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218.APPENDIX B	VOM Measurement Techniques for Capture Efficiency (Repealed)
218.APPENDIX C	Reference Methods and Procedures
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218.APPENDIX E	List of Affected Marine Terminals
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AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5].

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007; amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill. Reg. 5330, effective March 23, 2010; amended in R10-8 at 34 Ill. Reg. 9096, effective June 25, 2010; amended in R10-20 at 34 Ill. Reg. 14174, effective September 14, 2010; amended in R10-8(A) at 35 Ill. Reg. 469, effective December 21, 2010; amended in R11-23 at 35 Ill. Reg. 13473, effective July 27, 2011; amended in R11-23(A) at 35 Ill. Reg. 18813, effective October 25, 2011; amended in R12-24 at 37 Ill. Reg. 1699, effective January 28, 2013; amended in R13-18 at 38 Ill. Reg. 1032, effective December 23, 2013; amended in R18-21 at 50 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 218.100 Introduction

- a) This Part contains standards and limitations for emissions of organic material and volatile organic material from stationary sources located in the Chicago area; ~~which is~~ comprised of Cook, DuPage, Kane, Lake, McHenry, and Will Counties; ~~and~~ Aux Sable Township and Goose Lake Township in Grundy County; and Oswego Township in Kendall County.

- b) Sources subject to this Part may be subject to ~~the following~~:
- 1) Permits required under 35 Ill. Adm. Code 201; and
 - 2) Air quality standards under 35 Ill. Adm. Code 243.
- c) This Part is divided into Subparts ~~which are~~ grouped as follows:
- 1) Subpart A: General Provisions;
 - 2) Subparts B-F: Emissions from equipment and operations in common to more than one industry;
 - 3) Subpart G: Emissions from use of organic material;
 - 4) Subparts H-RR: Rules for various industry groups; ~~and~~
 - 5) Subpart TT: Rules for emission units not otherwise addressed; ~~and~~
 - 6) Subpart UU: Recordkeeping and reporting for equipment and operations addressed by Subparts PP, QQ, RR, and TT.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.101 Savings Clause

- a) Every owner or operator of an emission unit formerly subject to 35 Ill. Adm. Code 215 ~~must~~ shall have complied with its standards and limitations by the dates and schedules applicable to the emission unit in ~~compliance~~ accordance with 35 Ill. Adm. Code 215 or upon initial start-up. All compliance dates or schedules ~~underfound in~~ 35 Ill. Adm. Code 215 are not superseded by this Part and remain in full force and effect.
- b) Nothing in this Part ~~affects~~ shall affect the responsibility of any owner or operator that is now or has been subject to the FIP to comply with its requirements ~~thereunder~~ by the dates specified in the FIP.
- c) ~~As Nothing in this Part as it is amended, nothing relieves from time to time shall relieve the owner or operator of a source subject to the requirements of this Part from the obligation to comply with the applicable requirements and compliance dates set forth in Section 218.106 of this Subpart or any specific schedules undercontained within the applicable Subparts of this Part, even though those compliance dates may have been expressly superseded by subsequent~~

amendments.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.102 Abbreviations and Conversion Factors

The abbreviations and conversion factors ~~at~~ 35 Ill. Adm. Code ~~211.102244~~ apply to this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.103 Applicability

~~This~~The provisions of this Part ~~applies~~shall apply to all sources located in the Chicago area ~~comprised, which is composed~~ of Cook, DuPage, Kane, Lake, McHenry, and Will Counties~~;~~ and Aux Sable Township and Goose Lake Township in Grundy County~~;~~ and Oswego Township in Kendall County.

a) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on July 1, 1991~~,~~ with the following exceptions:

- 1) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on September 1, 1991~~,~~ for each appellant, including the constituents represented by appellants who are associations, who has appealed the ~~federal implementation plan (FIP)~~ for the Chicago area (Illinois Regulatory Group v. USEPA, No. 90-2778 (and consolidated cases) (7th Cir.)).
- 2) The effectiveness of any provision of this Part applicable to any individual source or category of sources which has appealed the FIP ~~is~~shall be stayed to the extent that ~~the~~sueh individual source or category of sources received a stay of the effectiveness of the FIP, pending reconsideration, from the USEPA or from the court in the FIP appeal cited in subsection ~~(a)(1)218.103(a)(1) above~~. When USEPA has published in the Federal Register final action to revise or affirm the provisions of the FIP specifically applicable to ~~the~~sueh individual source or category of sources or ~~the~~sueh stay is otherwise terminated, the Board ~~must~~shall take corresponding action~~,~~ and the Agency ~~must~~shall submit ~~that~~sueh action to USEPA for approval. Until ~~such time as~~ USEPA approves the corresponding amendment to this Part, the FIP rule ~~remain~~sshall remain the applicable implementation plan for that source or category of sources under the Clean Air Act.
- 3) ~~This~~The provisions of this Part ~~takes effect~~shall become effective on

November 15, 1992, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County or in Oswego Township in Kendall County.

- b) ~~This~~The provisions of the Part ~~doesshall~~ not apply to Viskase Corporation; Allsteel, Incorporated; Stepan Company; or Ford Motor Company to the extent ~~that thesuch~~ source has obtained an adjusted standard from the Board or an exclusion from the General Assembly for any Subpart of this Part or ~~of~~ 35 Ill. Adm. Code 215.

(~~BOARD NOTE~~Board Note: ~~Section~~Subsection 218.103(b) ~~isof this Section shall be~~ effective at the federal level only ~~whenupon approval by~~ USEPA approves it.)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.105 Test Methods and Procedures

- a) Coatings, Inks, and Fountain Solutions
- The following test methods and procedures mustshall be used to determine compliance of as applied coatings, inks, and fountain solutions with the limitations ~~set forth~~ in this Part.
- 1) Sampling: Samples collected for analyses mustshall be one-liter taken into a one-liter container at a location and time ~~so~~such that the sample will be representative of the coating as applied (i.e., the sample mustshall include any dilution solvent or other VOM added during the manufacturing process). The container must be tightly sealed immediately after the sample is taken. Any solvent or other VOM added after the sample is taken must be measured and accounted for in the calculations in subsection (a)(3) ~~of this Section~~. For multiple package coatings, separate samples of each component mustshall be obtained. A mixed sample mustshall not be obtained as it will cure in the container. Sampling procedures mustshall follow the guidelines ~~presented~~ in:
- A) ASTM D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigment Coating, ~~D-3925-81 (1985) standard practice for sampling liquid paints and related pigment coating. This practice is~~ incorporated by reference in Section 218.112 ~~of this Part~~.
- B) ASTM E300-03 (2022) Standard Practice for Sampling Industrial Chemicals, ~~E-300-86 standard practice for sampling industrial chemicals. This practice is~~ incorporated by reference in Section

218.112 ~~of this Part.~~

- 2) Analyses: The applicable analytical methods in this subsection (a)(2) ~~must specified below shall~~ be used to determine the composition of coatings, inks, or fountain solutions as applied.
- A) Method 24 of 40 CFR 60. Appendix A-7, appendix A, incorporated by reference in Section 218.112 ~~of this Part~~, shall be used to determine the VOM content and density of coatings. If it is demonstrated to the satisfaction of the Agency and ~~the~~ USEPA that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. If there is ~~In the event of~~ any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.
- B) Method 24A of 40 CFR 60. Appendix A-7, appendix A, incorporated by reference in Section 218.112 ~~of this Part~~, shall be used to determine the VOM content and density of rotogravure printing inks and related coatings. If it is demonstrated to the satisfaction of the Agency and USEPA that the plant coating formulation data are equivalent to Method 24A results, formulation data may be used. If there is ~~In the event of~~ any inconsistency between a Method 24A test and formulation data, the Method 24A test will govern.
- C) The following ASTM methods are the analytical procedures to ~~determine for determining~~ VOM:
- i) ASTM D1475-13 (2020) Standard Test Method for Density of Paint Varnish, Lacquer, and Related Products, D-1475-85: Standard test method for density of paint, varnish, lacquer and related products. This test method is incorporated by reference in Section 218.112 ~~of this Part~~.
- ii) ASTM D2369-24 Standard Test Method for Volatile Content of a Coating, D-2369-87: Standard test method for volatile content of a coating. This test method is incorporated by reference in Section 218.112 ~~of this Part~~.
- iii) ASTM D3792-16 (2002) Standard Test Method for Water Content of Water Reducible Paints by Direct Injection Into a Gas Chromatograph, D-3792-86: Standard test method for water content of water reducible paints by direct injection

~~into a gas chromatograph. This test method is~~ incorporated
by reference in Section 218.112 ~~of this Part.~~

iv) ASTM D4017-22 Standard Test Method for Waer in Paints and Paint Material by Karl Fischer Method, ~~D 4017-81 (1987): Standard test method for water content in paints and paint materials by the Karl Fischer method. This test method is~~ incorporated by reference in Section 218.112 ~~of this Part.~~

v) ASTM D4457-02 (2014) Standard Test Method for Determination of Dichloromethane and 1,1,1, Trichloroethane in Paints and Coatings by Direct Injection into a Gas Chromatograph, ~~D 4457-85: Standard test method for determination of dichloromethane and 1,1,1, trichloroethane in paints and coatings by direct injection into a gas chromatograph. (The procedure delineated above can be used to develop protocols for any compounds specifically exempted from the definition of VOM.) This test method is~~ incorporated by reference in Section 218.112 of this Part. This method can be used to develop protocols for any compounds specifically exempted from the definition of VOM.

vi) ASTM D2697-22 Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings, ~~D 2697-86: Standard test method for volume non-volatile matter in clear or pigmented coatings. This test method is~~ incorporated by reference in Section 218.112 ~~of this Part.~~

vii) ~~ASTM D 3980-87: Standard practice for interlaboratory testing of paint and related materials. This practice is incorporated by reference in Section 218.112 of this Part.~~

~~vii~~viii) ASTM E180-03 Standard Practice for Determining the Precision Data of ASTM Methods for Analysis of and Testing of Industrial Chemicals, ~~E 180-85: Standard practice for determining the precision data of ASTM methods for analysis of and testing of industrial chemicals. This practice is~~ incorporated by reference in Section 218.112 ~~of this Part.~~

~~viii~~x) ASTM DD-2372-85 (2022) Standard Practice for

Separation of Vehicle from Solvent-Reducible Paints,
~~Standard method of separation of vehicle from solvent-reducible paints. This method is~~ incorporated by reference
in Section 218.112 ~~of this Part~~.

D) ~~An~~ Use of an adaptation to any of the analytical methods ~~specified~~
in subsections (a)(2)(A), (B), and (C) ~~of this Section~~ may not be
used unless approved by the Agency and USEPA. An owner or
operator must submit sufficient documentation for the Agency and
USEPA to find that the analytical methods ~~specified~~ in subsections
(a)(2)(A), (B), and (C) ~~of this Section~~ will yield inaccurate results
and that the proposed adaptation is appropriate.

3) Calculations: Calculations ~~to determine~~ for determining the VOM content,
water content, and ~~the~~ content of any compounds ~~which are~~ specifically
exempted from the definition of VOM of coatings, inks, and fountain
solutions as applied must shall follow the guidance ~~provided~~ in the
following documents:

- A) "A Guideline ~~Guide~~ for Surface Coating Calculation", July 1986,
EPA-340/1-86-016, incorporated by reference in Section 218.112
~~of this Part~~.
- B) "Procedures for Certifying Quantity of Volatile Organic
Compounds Emitted by Paint, Ink and Other Coatings" (revised
June 1986), EPA-450/3-84-019, incorporated by reference in
Section 218.112 ~~of this Part~~.
- C) "A Guide for Graphic Arts Calculations", August 1988, EPA-
340/1-88-003, incorporated by reference in Section 218.112 ~~of this~~
~~Part~~.

b) Automobile or Light-Duty Truck Test Protocol

1) The protocol for testing, including determining the transfer efficiency of
coating applicators, at primer surfacer operations and topcoat operations at
an automobile or light-duty truck assembly source must shall follow the
procedures in the following:

- A) ~~Before~~ Prior to May 1, 2012: "Protocol for Determining the Daily
Volatile Organic Compound Emission Rate of Automobile and
Light-Duty Truck Topcoat Operations" ("topcoat protocol"),
December 1988, EPA-450/3-88-018, incorporated by reference in

Section 218.112 ~~of this Part.~~

- B) On and after May 1, 2012: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations" ("topcoat protocol"), September 2008, EPA-453/R-08-002, incorporated by reference in Section 218.112 ~~of this Part.~~

- 2) ~~Before~~~~Prior to~~ testing ~~under~~~~pursuant to~~ the applicable topcoat protocol, the owner or operator of a coating operation subject to the topcoat or primer surfacer limit in Section ~~218.204(a)(2), (a)(3), or (a)(5)~~ must~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(E) shall~~ submit a detailed testing proposal specifying the method by which testing will be conducted and how compliance will be demonstrated consistent with the applicable topcoat protocol. The proposal ~~must~~~~shall~~ include ~~;~~ ~~at a minimum;~~

- A) ~~A~~ comprehensive plan (including a rationale) ~~to determine for determining~~ the transfer efficiency at each booth through ~~the use of~~ in-plant or pilot testing ~~;~~

- B) ~~The~~ selection of coatings to be tested (~~to determine for the purpose of determining~~ transfer efficiency), including the rationale for coating groupings ~~;~~

- C) ~~The~~ method ~~to determine for determining~~ the analytic VOM content of as applied coatings and the formulation solvent content of as applied coatings ~~;~~ and

- D) ~~A~~ description of the records of coating VOM content as applied and coating's usage that will be kept to demonstrate compliance.

- 3) ~~When~~~~Upon approval of the proposal by~~ the Agency and USEPA approve the proposal, the compliance demonstration for a coating line may proceed.

c) Capture System Efficiency Test Protocols

- 1) Applicability:
~~Subsection~~~~The requirements of subsection~~ (c)(2) ~~must of this Section shall~~ apply to all VOM emitting process emission units employing capture equipment (e.g., hoods, ducts), except those ~~cases noted~~ in this subsection (c)(1).

- 732
733 A) If an emission unit is equipped with ~~(or uses)~~ a permanent total
734 enclosure (PTE) that meets Agency and USEPA specifications;
735 and ~~which~~ directs all VOM to a control device, then the emission
736 unit is exempted from the requirements ~~described~~ in subsection
737 (c)(2) ~~of this Section~~. The Agency and USEPA specifications to
738 determine whether a structure is considered a PTE are ~~given~~ in
739 Method 204 of ~~appendix M of~~ 40 CFR 51. Appendix M,
740 incorporated by reference in Section 218.112 ~~of this Part~~. In this
741 instance, the capture efficiency is assumed to be 100%, ~~100 percent~~
742 and the emission unit is still required to measure control efficiency
743 using appropriate test methods ~~as specified~~ in subsection (d) ~~of this~~
744 Section.
- 745
746 B) If an emission unit is equipped with ~~(or uses)~~ a control device
747 designed to collect and recover VOM (e.g., carbon adsorber), an
748 explicit measurement of capture efficiency is not necessary
749 ~~if provided that~~ the conditions in this subsection (c)(1)(B) given
750 ~~below~~ are met. The overall control of the system can be
751 determined by directly comparing the input liquid VOM to the
752 recovered liquid VOM. The general procedure for use in this
753 situation is ~~given~~ in 40 CFR 60.433, incorporated by reference in
754 Section 218.112 ~~of this Part~~, with the following additional
755 restrictions:
- 756
757 i) Unless otherwise specified in subsection (c)(1)(B)(ii), the
758 owner or operator ~~must~~ shall obtain data each operating day
759 for the solvent usage and solvent recovery to permit
760 ~~determining the determination of~~ the solvent recovery
761 efficiency of the system each operating day using a 7-day
762 rolling period. The recovery efficiency for each operating
763 day is computed as the ratio of the total recovered solvent
764 for that day and the most recent previous 6 ~~prior 6~~ operating
765 days to the total solvent usage for the same 7-day period
766 used for the recovered solvent, rather than a 30-day
767 weighted average under as given in 40 CFR 60.433,
768 incorporated by reference at Section 218.112 ~~of this Part~~.
769 This ratio ~~must~~ shall be expressed as a percentage. The
770 ratio ~~must~~ shall be computed within 72 hours after following
771 each 7-day period. A source that believes that the 7-day
772 rolling period is not appropriate may use an
773 alternative ~~alterative~~ multi-day rolling period of up to not to
774 ~~exceed~~ 30 days, with the approval of the Agency and

USEPA. In addition, the source must meet the criteria in subsection (c)(1)(B)(iii) or ~~subsection (c)(1)(B)(iv) must be met.~~

- ii) The owner or operator of the source engaged in printing located at 350 East 22nd E. 22nd Street, Chicago, ~~must Illinois, shall~~ obtain data each operating day for the solvent usage and solvent recovery to permit ~~determining the determination of~~ the solvent recovery efficiency of the system each operating day using a 14-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent ~~previous prior~~ 13 operating days to the total solvent usage for the same 14-day period used for the recovered solvent, rather than a 30-day weighted average ~~under as given in~~ 40 CFR 60.433, incorporated by reference in Section 218.112 ~~of this Part.~~ This ratio ~~must shall~~ be expressed as a percentage. The ratio ~~must shall~~ be computed within 17 days ~~after following~~ each 14-day period. In addition, the source must meet the criteria in subsection (c)(1)(B)(iii) or ~~subsection (c)(1)(B)(iv) must be met.~~
- iii) The solvent recovery system (i.e., capture and control system) must be dedicated to a single coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard, ~~or~~
- iv) If the solvent recovery system controls more than one coating line, printing line, or other discrete activity that by itself is subject to an applicable VOM emission standard, the overall control (i.e., the total recovered VOM divided by the sum of liquid VOM input from all lines and other activities venting to the control system) must meet or exceed the most stringent standard applicable to any line or other discrete activity venting to the control system.

- 2) Capture Efficiency Protocols. The capture efficiency of an emission unit must shall be measured using one of the protocols in this subsection (c)(2) given below. Appropriate test methods to be ~~used utilized~~ in each of the capture efficiency protocols are ~~described in appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference at Section 218.112 ~~of this Part.~~ Any error margin associated with a test method or protocol may not be

incorporated into the results of a capture efficiency test. If these techniques are not suitable for a particular process, then an alternative capture efficiency protocol may be used under, pursuant to the provisions of Section 218.108(b) of this Part.

- A) Gas/gas method using temporary total enclosure (TTE). The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are given in Method 204 of appendix M of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 of this Part. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{G_w}{G_w + F_w}$$

where:

- CE = Capture efficiency, decimal fraction;
- G_w = Mass of VOM captured and delivered to control device using a TTE;
- F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204B or 204C contained in appendix M of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 of this Part, is used to obtain G_w . Method 204D in appendix M of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 of this Part, is used to obtain F_w .

- B) Liquid/gas method using TTE. The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are given in Method 204 of appendix M of 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 of this Part. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_w}{L}$$

where:

- CE = Capture efficiency, decimal fraction;
- L = Mass of liquid VOM input to process emission unit;
- F_w = Mass of uncaptured VOM that escapes from a TTE.

Method 204A or 204F ~~contained in appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, is used to obtain L. Method 204 D in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, is used to obtain F_w.

- C) Gas/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, and in which "F_B" and "G" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{G}{G + F_B}$$

where:

- CE = Capture efficiency, decimal fraction;
- G = Mass of VOM captured and delivered to control device;
- F_B = Mass of uncaptured VOM that escapes from building enclosure.

Method 204B or 204C ~~contained in appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, is used to obtain G. Method 204E in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, is used to obtain F_B.

- D) Liquid/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line, or other emission unit is located, as the enclosure as determined by Method 204 of ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, and in which "F_B" and "L" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{L - F_B}{L}$$

where:

CE = Capture efficiency, decimal fraction;
 L = Mass of liquid VOM input to process emission unit;
 F_B = Mass of uncaptured VOM that escapes from building enclosure.

Method 204A or 204F ~~contained in appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~ is used to obtain L. Method 204E in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~ is used to obtain F_B.

- E) Mass balance using Data Quality Objective (DQO) or Lower Confidence Limit (LCL) protocol. For a liquid/gas input where an owner or operator is using the DQO/LCL protocol and not using an enclosure as described in Method 204 of ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~, the VOM content of the liquid input (L) must be determined using Method 204A or 204F in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~. The VOM content of the captured gas stream (G) to the control device must be determined using Method 204B or 204C in ~~appendix M of 40 CFR 51. Appendix M~~, incorporated by reference in Section 218.112 ~~of this Part~~. The results of capture efficiency calculations (G/L) must satisfy the DQO or LCL statistical analysis protocol ~~as described~~ in Section 3 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 218.112 ~~of this Part~~. Where capture efficiency testing is done to determine emission reductions for ~~the purpose of~~ establishing emission credits for offsets, shutdowns, and trading, the LCL protocol cannot be used for these applications. In enforcement cases, the LCL protocol cannot confirm non-compliance; capture efficiency must be determined using a protocol under subsection (c)(2)(A), (B), (C), or (D) ~~of this Section~~, the DQO protocol of this subsection (c)(2)(E), or an alternative protocol ~~underpursuant to~~ Section 218.108(b) ~~of this Part~~.

BOARD NOTE: Where LCL was used in testing emission units that are the subject of later requests for establishing emission credits for offsets, shutdowns, and trading, prior LCL results may not be relied upon to determine the appropriate amount of credits. Instead, to establish the appropriate amount of credits, additional testing may be required that would satisfy the protocol of Section 218.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section 218.105(c)(2)(E), or an alternative protocol underpursuant to Section 218.108(b) ~~of this Part.~~

- 3) Simultaneous testing of multiple lines or emission units with a common control device. If an owner or operator has multiple lines sharing a common control device, the capture efficiency of the lines may be tested simultaneously, subject to the following provisions:
 - A) Multiple line testing must meet the criteria of Section 4 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 218.112 ~~of this Part;~~
 - B) The most stringent capture efficiency required for any individual line or unit must be met by the aggregate of lines or units; and
 - C) Testing of all the lines of emission units must be performed with the same capture efficiency test protocol.
- 4) Recordkeeping and Reporting
 - A) All owners or operators ~~to which affected by~~ this subsection applies must maintain on file a copy of the capture efficiency protocol submitted to the Agency and ~~the~~ USEPA ~~on file~~. All results of the appropriate test methods and capture efficiency protocols must be reported to the Agency within 60 days after the test date. A copy of the results must be kept on file with the source for threea period ~~of 3~~ years.
 - B) If any changes are made to capture or control equipment, then the source mustis required to notify the Agency and ~~the~~ USEPA of these changes, and a new test may be required by the Agency or ~~the~~ USEPA.
 - C) The source must notify the Agency 30 days beforeprior to performing any capture efficiency or control test. At that time, the source must notify the Agency which capture efficiency protocol

and control device test methods will be used. Notification of the actual date and expected time of testing must be submitted at least five a minimum of 5 working days ~~before prior to~~ the actual date of the test. The Agency may at its discretion accept notification with shorter advance notice ~~if those provided that such~~ arrangements do not interfere with the Agency's ability to review the protocol or observe testing.

- D) Sources usingutilizing a PTE must demonstrate that this enclosure meets the requirements ~~of given in~~ Method 204 in ~~appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~, for a PTE during any testing of their control device.
- E) Sources usingutilizing a TTE must demonstrate that their TTE meets the requirements ~~of given in~~ Method 204 in ~~appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~, for a TTE during testing of their control device. The source must also provide documentation that the quality assurance criteria for a TTE have been achieved.
- F) Any source usingutilizing the DQO or LCL protocol must submit the following information to the Agency with each test report:
- i) A copy of all test methods, Quality Assurance/Quality Control procedures, and calibration procedures to be used from those ~~described in appendix M of~~ 40 CFR 51. Appendix M, incorporated by reference in Section 218.112 ~~of this Part~~;
 - ii) A table with information on each sample taken, including the sample identification and the VOM content of the sample;
 - iii) The quantity of material used for each test run;
 - iv) The quantity of captured VOM for each test run;
 - v) The capture efficiency calculations and results for each test run;
 - vi) The DQO ~~or and/or~~ LCL calculations or both and results; and

- vii) The Quality Assurance/Quality Control results, including how often the instruments were calibrated, the calibration results, and the calibration gases used.

d) Control Device Efficiency Testing and Monitoring

- 1) The control device efficiency ~~must~~shall be determined by simultaneously measuring the inlet and outlet gas phase VOM concentrations and gas volumetric flow rates in ~~compliance~~accordance with the gas phase test methods ~~specified~~ in subsection (f) ~~of this Section~~.

2) An owner or operator:

- A) That uses an afterburner or carbon adsorber to comply with any ~~section~~Section of Part 218 ~~must~~shall use Agency and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use, except ~~under as provided in~~ subsection (d)(3) ~~of this Section~~. The continuous monitoring equipment must monitor the following parameters:
- i) For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.
 - ii) For each afterburner which has a catalyst bed, commonly known as a catalytic afterburner, the temperature rise across each catalytic afterburner bed or VOM concentration of exhaust.
 - iii) For each carbon adsorber, the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
- B) Must install, calibrate, operate, and maintain, in ~~compliance~~accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder, or computer, ~~with having~~ an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature measured in degrees Celsius or $\pm 0.5^{\circ}\text{C}$ ~~0.5°C~~, whichever is greater.
- C) Of an automobile or light-duty truck primer surfacer operation or

topcoat operation subject to subsection (d)(2)(A) ~~must, shall~~ keep a separate record of the following data for the control devices, unless alternative provisions are ~~set forth~~ in a permit ~~underpursuant to~~ Title V of the ~~CAA Clean Air Act~~:

- i) For thermal afterburners for which combustion chamber temperature is monitored, all 3-hour periods of operation in which the average combustion temperature was more than ~~28 °C (50 °F)~~~~28°C (50°F)~~ below the average combustion temperature measured during the most recent performance test that demonstrated that the operation was in compliance.
- ii) For catalytic afterburners for which temperature rise is monitored, all 3-hour periods of operation in which the average gas temperature before the catalyst bed is more than ~~28 °C (50 °F)~~~~28°C (50°F)~~ below the average gas temperature immediately before the catalyst bed measured during the most recent performance test that demonstrated that the operation was in compliance.
- iii) For catalytic afterburners and carbon adsorbers for which VOM concentration is monitored, all 3-hour periods of operation during which the average VOM concentration or the reading of organics in the exhaust gases is more than ~~20%20 percent~~ greater than the average exhaust gas concentration or reading measured by the organic monitoring device during the most recent determination of the recovery efficiency of a carbon adsorber or performance test for a catalytic afterburner ~~that, which~~ ~~determination or test~~ demonstrated that the operation was in compliance.

3) An owner or operator that uses a carbon adsorber to comply with Section 218.401 ~~of this Part~~ may operate the adsorber during periods of monitoring equipment malfunction ~~if, provided that~~:

- A) The owner or operator notifies ~~the Agency~~ in writing ~~the Agency~~ within, 10 days after the conclusion of any ~~72-hour~~~~72 hour~~ period during which the adsorber is operated and the associated monitoring equipment is not operational, ~~of thesuch~~ monitoring equipment failure and provides the duration of the malfunction, a description of the repairs made to the equipment, and the total to date of all hours in the calendar year during which the adsorber

was operated and the associated monitoring equipment was not operational;

- B) During ~~the~~such period of malfunction, the adsorber is operated using timed sequences as the basis for periodic regeneration of the adsorber;
- C) The period of ~~such~~ adsorber operation does not exceed 360 hours in any calendar year without the approval of the Agency and USEPA; and
- D) The total of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational ~~must~~shall be reported, in writing, to the Agency and USEPA by January 31 of the ~~next~~following calendar year.

e) Overall Efficiency

- 1) The overall efficiency of the emission control system ~~must~~shall be determined as the product of the capture system efficiency and the control device efficiency or by the liquid/liquid test protocol ~~as specified~~ in 40 CFR 60.433, incorporated by reference in Section 218.112 ~~of this Part~~, (and revised by subsection (c)(1)(B) ~~of this Section~~) for each solvent recovery system. ~~When~~In those cases in which the overall efficiency is being determined for an entire line, the capture efficiency used to calculate the product of the capture and control efficiency is the total capture efficiency over the entire line.
- 2) For coating lines which are both chosen by the owner or operator to comply with Section 218.207(c), (d), (e), (f), (g), (m), or (n) ~~of this Part~~ by the alternative in Section 218.207(b)(2) ~~of this Part~~ and meet the criteria allowing them to comply with Section 218.207 ~~of this Part~~ instead of Section 218.204 ~~of this Part~~, the overall efficiency of the capture system and control device, as determined by the test methods and procedures ~~specified~~ in subsections (c), (d), and (e)(1) ~~must~~of this Section, shall be at least~~no less than~~ the equivalent overall efficiency ~~which shall be~~ calculated by the following equation:

$$E = \frac{VOM_a - VOM_l}{VOM_a} \times 100$$

where:

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E = Equivalent overall efficiency of the capture system and control device as a percentage;

VOM_a = Actual VOM content of a coating, or the daily-weighted average VOM content of two or more coatings (if more than one coating is used), as applied to the subject coating line as determined by the applicable test methods and procedures ~~specified in subsection (a) of this Section~~ in units of kg ~~VOM/VOM_t~~ (lb VOM/gal) of coating solids as applied;

VOM_l = The VOM emission limit ~~specified in Section 218.204 or 218.205 of this Part~~ in units of kg ~~VOM/VOM_t~~ (lb VOM/gal) of coating solids as applied.

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f) ~~VOM~~Volatile Organic Material Gas Phase Source Test Methods. The methods in 40 CFR ~~60. Appendix 60, appendix~~ A, incorporated by reference in Section 218.112, ~~must of this Part delineated below shall~~ be used to determine control device efficiencies.

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1) 40 CFR 60. ~~Appendix A-6, appendix A~~, Method 18 ~~and Appendix A-7, Method~~ 25 or 25A, incorporated by reference in Section 218.112, ~~of this Part~~ as appropriate to the conditions at the site, ~~must shall~~ be used to determine VOM concentration. Method selection ~~must shall~~ be based on ~~considering consideration of~~ the diversity of organic species present and their total concentration and ~~on consideration of~~ the potential presence of interfering gases. Except as indicated in subsections (f)(1)(A) and (B) ~~below~~, the test ~~must shall~~ consist of three separate runs, each lasting a minimum of 60 minutes, unless the Agency and ~~the~~ USEPA determine that process variables dictate shorter sampling times.

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A) When the method is to be used to determine the efficiency of a carbon adsorption system with a common exhaust stack for all the individual adsorber vessels, the test ~~must shall~~ consist of three separate runs, each coinciding with one or more complete sequences through the adsorption cycles of all the individual absorber vessels.

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B) When the method is to be used to determine the efficiency of a carbon adsorption system with individual exhaust stacks for each absorber vessel, each adsorber vessel ~~must shall~~ be tested

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individually. The test for each absorber vessel ~~mustshall~~ consist of three separate runs. Each run ~~mustshall~~ coincide with one or more complete adsorption cycles.

- 2) 40 CFR 60.~~Appendix A-1, appendix A~~, Method 1 or 1A, incorporated by reference in Section 218.112-~~of this Part~~, ~~mustshall~~ be used for sample and velocity traverses.
- 3) 40 CFR 60.~~Appendix A-1, appendix A~~, Method 2, 2A, 2C, or 2D, incorporated by reference in Section 218.112-~~of this Part~~, ~~mustshall~~ be used for velocity and volumetric flow rates.
- 4) 40 CFR 60.~~Appendix A-2, appendix A~~, Method 3, incorporated by reference in Section 218.112-~~of this Part~~, ~~mustshall~~ be used for gas analysis.
- 5) 40 CFR 60.~~Appendix A-3, appendix A~~, Method 4, incorporated by reference in Section 218.112-~~of this Part~~, ~~mustshall~~ be used for stack gas moisture.
- 6) 40 CFR 60.~~Appendix A-1, appendix A~~, Methods 2, 2A, 2C, ~~and~~ 2D, ~~Appendix A-2, Method 3~~, and ~~Appendix A-3, Method 4~~, incorporated by reference in Section 218.112-~~of this Part~~, ~~mustshall~~ be performed, as applicable, at least twice during each test run.
- 7) ~~An~~~~Use of an~~ adaptation to any of the test methods-~~specified~~ in subsections (f)(1), (2), (3), (4), (5), and (6)-~~of this Section~~ may not be used unless approved by the Agency and ~~the~~ USEPA on a case by case basis. An owner or operator must submit sufficient documentation for the Agency and ~~the~~ USEPA to find that the test methods-~~specified~~ in subsections (f)(1), (2), (3), (4), (5), and (6) of this Section will yield inaccurate results and that the proposed adaptation is appropriate.

g) Leak Detection Methods for ~~VOM, Volatile Organic Material~~
Owners or operators required by this Part to carry out a leak detection monitoring program ~~mustshall~~ comply with the following requirements:

- 1) Leak Detection Monitoring
 - A) Monitoring ~~mustshall~~ comply with 40 CFR 60.~~Appendix A-7; appendix A~~, Method 21, incorporated by reference in Section 218.112-~~of this Part~~.

- B) The detection instrument mustshall meet the performance criteria of Method 21.
- C) The instrument mustshall be calibrated before use on each day of its use by the methods ~~specified~~ in Method 21.
- D) Calibration gases mustshall be:
 - i) Zero air (less than 10 ppm of hydrocarbon in air); and
 - ii) A mixture of methane or n-hexane and air at a concentration of approximately, but at leastno less than, 10,000 ppm methane or n-hexane.
- E) The instrument probe mustshall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.

2) When equipment is tested for compliance with no detectable emissions as required, the test mustshall comply with the following requirements:

- A) The requirements of subsections (g)(1)(A) through (g)(1)(E) mustof this Section shall apply.
- B) The background level mustshall be determined underas set forth in Method 21.

3) Leak detection tests mustshall be performed consistent with:

- A) "APTI Course SI 417 controlling Volatile Organic Compound Emissions from Leaking Process Equipment₂"; EPA-450/2-82-015, incorporated by reference in Section 218.112 ~~of this Part~~.
- B) "Portable Instrument User's Manual for Monitoring VOC Sources₂"; EPA-340/1-86-015, incorporated by reference in Section 218.112 ~~of this Part~~.
- C) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOC and VHAP₂"; EPA-450/3-88-010, incorporated by reference in Section 218.112 ~~of this Part~~.
- D) "Petroleum Refinery Enforcement Manual₂"; EPA-340/1-80-008, incorporated by reference in Section 218.112 ~~of this Part~~.

h) Bulk Gasoline Delivery System Test Protocol

1) The method ~~to determine for determining~~ the emissions of gasoline from a vapor recovery system ~~is at are delineated in~~ 40 CFR ~~60, Subpart XX,~~ section 60.503, incorporated by reference in Section 218.112 ~~of this Part.~~

2) Other tests ~~must shall~~ be performed consistent with:

A) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D₁"; EPA-340/1-80-012, incorporated by reference in Section 218.112 ~~of this Part.~~

B) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A₁"; EPA-450/2-77-026, incorporated by reference in Section 218.112 ~~of this Part.~~

i) ~~Despite Notwithstanding~~ other requirements of this Part, upon request of the Agency where it is necessary to demonstrate compliance, an owner or operator of an emission unit ~~which is~~ subject to this Part ~~must shall~~, at ~~its~~ own expense, conduct tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specific~~ in this Part. Nothing in this Section ~~limits USEPA's shall limit~~ the authority ~~under of the USEPA pursuant to~~ the CAA Clean Air Act, as amended, to require testing.

j) Stage II Gasoline Vapor Recovery Test Methods.

The methods ~~to determine for determining~~ the acceptable performance of Stage II Gasoline Vapor Recovery System are ~~delineated~~ in "Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities," ~~found at~~ EPA 450/3-91-022b and incorporated by reference in Section 218.112 ~~of this Part.~~ ~~These Specifically, the~~ test methods are ~~as follows:~~

1) Dynamic Backpressure Test₁ ~~is a test procedure~~ used to determine the pressure drop (flow resistance) through balance vapor collection and control systems (including nozzles, vapor hoses, swivels, dispenser piping, and underground piping) at prescribed flow rates.

2) Pressure Decay/Leak Test₁ ~~is a test procedure~~ used to quantify the vapor tightness of a vapor collection and control system installed at gasoline dispensing facilities.

3) Liquid Blockage Test₁ ~~is a test procedure~~ used to detect low points in any

vapor collection and control system where condensate may accumulate.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.106 Compliance Dates

- a) Except as otherwise provided in this Section or ~~as otherwise provided in~~ a specific Subpart of this Part, compliance with ~~the requirements of~~ all rules is required by July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage, Kane, Lake, McHenry, or Will Counties, consistent with the appropriate provisions of Section 218.103 ~~of this Subpart~~.
- b) Except as otherwise provided in this Section or ~~as otherwise provided in~~ a specific Subpart of this Part, compliance with ~~the requirements of~~ this Part is required by November 15, 1993, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County, or in Oswego Township in Kendall County.
- c) All emission units which meet the applicability requirements of Sections ~~218.402(a)218.402(a)(2)~~, 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b), 218.940(b), 218.960(b), or 218.980(b) ~~of this Part~~, including emission units at sources ~~which are~~ excluded from the applicability criteria of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) ~~of this Part~~ by virtue of permit conditions or other enforceable means, must comply with ~~the requirements of~~ Subparts H, Z, AA, CC, DD, PP, QQ, RR, or TT ~~of this Part~~, respectively, by March 15, 1995. Any owner or operator of an emission unit which has already met the applicability requirements of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) ~~of this Part on or~~ by the effective date of this subsection is required to comply with all compliance dates or schedules ~~found in~~ Section Sections 218.106(a) or 218.106(b), as applicable.
- d) Any owner or operator of a source with an emission unit subject to ~~the requirements of~~ Section 218.204(m)(2) or (m)(3) ~~of this Part~~ shall comply with those requirements by March 25, 1995.
- e) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(c)(1), 218.204(g)(1)218.204(e)(2), 218.204(g)(2), or 218.204(h)(1) ~~must218.204(h)(2) of this Part shall~~ comply with the applicable requirements in the applicable subsections and, as well as all applicable requirements in Sections 218.205 through 218.214 and 218.218, by May 1, 2012.
- f) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(p) must ~~of this Part shall~~ comply with the requirements in Section

218.204(p) ~~and, as well as~~ all applicable requirements in Sections 218.205 through 218.211, 218.214, and 218.217 by August 1, 2010.

- g) Any owner or operator of a source subject to ~~the requirements of~~ Section 218.204(a) ~~218.204(a)(2)~~ or 218.204(q) ~~must of this Part shall~~ comply with the applicable requirements in those Sections ~~and, as well as~~ all applicable requirements in Sections 218.205 through 218.214 and 218.219, by May 1, 2012.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.107 ~~Operating~~ ~~Operation of~~ Afterburners

~~Operating~~ ~~The operation of~~ any natural gas fired afterburner and capture system used to comply with this Part is not required ~~from during the period of~~ November 1 of any year to April 1 of the ~~next following~~ year, ~~if operating the provided that the operation of such~~ devices is not required for ~~purposes of~~ occupational safety or health, or ~~to for the~~ control ~~of~~ toxic substances, odor nuisances, or other regulated pollutants.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.108 Exemptions, Variations, and Alternative Means of Control or Compliance Determinations

~~Despite~~ ~~Notwithstanding the provisions of~~ any other Sections of this Part:

- a) Any exemptions, variations, or alternatives adopted by the Board ~~under~~ ~~pursuant to~~ Section 28, 28.1, or 35 of the Act to the control requirements, emission limitations, or test methods ~~set forth~~ in this Part ~~are~~ ~~shall be~~ effective only when approved by ~~the~~ USEPA as a SIP revision.
- b) Any equivalent alternative control plan, equivalent device, or other equivalent alternative practice authorized by the Agency where this Part provides for ~~the~~ ~~such~~ alternative or equivalent practice or equivalent variations or alterations to test methods approved by the Agency ~~is~~ ~~shall be~~ effective only when included in a federally enforceable permit or approved as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.109 Vapor Pressure of Volatile Organic Liquids

- a) If the VOL consists of only a single compound, the vapor pressure ~~must~~ ~~shall~~ be determined by ASTM Method ~~D2879-18, D2879-86~~ (incorporated by reference in Section 218.112 of this Part, ~~)~~ or the vapor pressure may be obtained from a

publication such as: Boublik, T., V. Fried₂ and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)(1984); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)(1986-87); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by reference in Section 218.112(1985).

- b) If the VOL is a mixture, the vapor pressure mustshall be determined by ASTM Method D2879-18, D2879-86 (incorporated by reference in Section 218.112₂) or by the following equation:

$$P_{vol} = \sum_{i=1}^n P_i X_i$$

where:

- P_{vol} = Total vapor pressure of the mixture;
 n = Number of components in the mixture;
 i = Subscript denoting an individual component;
 P_i = Vapor pressure of a component determined in compliance accordance with subsection (a)-of this Section;
 X_i = Mole fraction of the component in the total mixture.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.110 Vapor Pressure of Organic Material or Solvent

- a) If the organic material or solvent consists of only a single compound, the vapor pressure mustshall be determined by ASTM Method D2879-18, D2879-86 (incorporated by reference in Section 218.112 of this Part₂) or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Fried₂ and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)(1984); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)(1986-87); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by reference in Section 218.112(1985).
- b) If the organic material or solvent is in a mixture made up of both organic material

compounds and compounds which are not organic material, the vapor pressure mustshall be determined by the following equation:

$$P_{om} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

where:

- P_{om} = Total vapor pressure of the portion of the mixture which is composed of organic material;
 n = Number of organic material components in the mixture;
 i = Subscript denoting an individual component;
 P_i = Vapor pressure of an organic material component determined in compliance accordance with subsection (a) of this Section;
 X_i = Mole fraction of the organic material component of the total organic mixture.

- c) If the organic material or solvent is in a mixture made up of only organic material compounds, the vapor pressure mustshall be determined by ASTM Method D2879-18, D2879-86 (incorporated by reference in Section 218.112, of this Part) or by the above equation in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.111 Vapor Pressure of Volatile Organic Material

- a) If the VOM consists of only a single compound, the vapor pressure mustshall be determined by ASTM Method D2879-18, D2879-86 (incorporated by reference in Section 218.112, of this Part) or the vapor pressure may be obtained from a publication such as: Boublik, T., V. Friedl and E. Hala, "The Vapor Pressure of Pure Substances," Elsevier Scientific Publishing Co., New York (1973); Perry's Chemical Engineer's Handbook, 9th edition, McGraw-Hill Book Company (2018)(1984); CRC Handbook of Chemistry and Physics, Chemical Rubber Publishing Company (2024)(1986-87); and Lange's Handbook of Chemistry, John A. Dean, editor, McGraw-Hill Book Company (1998), each incorporated by reference in Section 218.112(1985).

- b) If the VOM is in a mixture made up of both VOM compounds and compounds which are not VOM, the vapor pressure ~~must~~shall be determined by the following equation:

$$P_{\text{vom}} = \frac{\sum_{i=1}^n P_i X_i}{\sum_{i=1}^n X_i}$$

where:

- P_{vom} = Total vapor pressure of the portion of the mixture which is composed of VOM;
- n = Number of VOM components in the mixture;
- i = Subscript denoting an individual component;
- P_i = Vapor pressure of a VOM component determined in ~~compliance~~accordance with subsection (a) ~~of this Section~~;
- X_i = Mole fraction of the VOM component of the total organic mixture.

- c) If the VOM is in a mixture made up of only VOM compounds, the vapor pressure ~~must~~shall be determined by ASTM Method D2879-18, D2879-86 (incorporated by reference in Section 218.112 of this Part.) or by the ~~above~~ equation in subsection (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.112 Incorporations by Reference

The following materials are incorporated by reference and do not contain any subsequent additions or amendments.

- a) American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken PA 19428-2959~~19428-9555~~;
- 1) ASTM D2879-18 Standard Test Method for Vapor Pressure – Temperature Relationships and Initial Decomposition Temperature of Liquids by Isoteniscope~~D-2879-86~~

- 2) ASTM D323-20a Standard Test Method for Vapor Pressure of Petroleum Products (Reid Method)~~D 323-08~~
- 3) ASTM D86-23a Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure~~D 86-82~~
- 4) ASTM D369-84 (2002) Standard Test Method for Specific Gravity of Creosote Fractions and Residue~~D 369-69 (1971)~~
- 5) ASTM D396-24 Standard Specification for Fuel Oils~~D 396-69~~
- 6) ASTM D2880-23 Standard Specification for Gas Turbine Fuel Oils~~D 2880-71~~
- 7) ASTM D975-24 Standard Specification for Diesel Fuel~~D 975-68~~
- 8) ASTM D3925-02 (2022) Standard Practice for Sampling Liquid Paints and Related Pigmented Coatings~~D 3925-81 (1985)~~
- 9) ASTM E300-03 (2022) Standard Practice for Sampling Industrial Chemicals~~E 300-86~~
- 10) ASTM D1475-13 (2020) Standard Test Method for Density of Liquid Coatings, Inks, and Related Products~~D 1475-85~~
- 11) ASTM D2369-24 Standard Test Method for Volatile Content of Coatings~~D 2369-87~~
- 12) ASTM D3792-16 (2022) Standard Test Method for Water Content of Coatings by Direct Injection Into a Gas Chromatograph~~D 3792-86~~
- 13) ASTM D4017-22 Standard Test Method for Water in Paints and Paint Materials by Karl Fischer Method~~D 4017-81 (1987)~~
- 14) ASTM D4457-02 (2014) Standard Test Method for Determination of Dichloromethane and 1,1,1-Trichloroethane in Paints and Coatings by Direct Injection Into a Gas Chromatograph~~D 4457-85~~
- 15) ASTM D2697-22 Standard Test Method for Volume Nonvolatile Matter in Clear of Pigmented Coatings~~D 2697-86~~
- ~~16) ASTM D 3980-87~~

- ~~1617)~~ ASTM E180-03 Standard Practice for Determining the Precision of ASTM Methods for Analysis and Testing of Industrial and Specialty ChemicalsE-180-85
 - ~~1718)~~ ASTM D2372-85 (2022) Standard Practice for Separation of Vehicle from Solvent-Reducible PaintsD-2372-85
 - ~~1819)~~ ASTM D97-17b (2022) Standard Test Method for Pour Point of Petroleum ProductsD-97-66
 - ~~1920)~~ ASTM E168-16 (2023) Standard Practices for General Techniques of Infrared Quantitative AnalysisE-168-67 (1977)
 - ~~2021)~~ ASTM E169-16 (2022) Standard Practices for General Techniques of Ultraviolet-Visible Quantitative AnalysisE-169-87
 - ~~2122)~~ ASTM E260-96 (2019) Standard Practice for Packed Column Gas ChromatographyE-260-91
 - ~~22)~~ ASTM D-2504-83
 - ~~2224)~~ ASTM D4809-18 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method)D-2382-83
 - ~~2325)~~ ASTM D2099-14 (2023) Standard Test Method for Dynamic Water Resistance of Shoe Upper Leather by the Maeser Water Penetration TesterD-2099-00
- b) Standard Industrial Classification Manual, published by Executive Office of the President, Office of Management and Budget, Washington, D.C., 1987.
- c) American Petroleum Institute Manual of Petroleum Measurement Standards Chapter 19.2 Evaporative Loss from Floating-roof Tanks (August 2000)Bulletin 2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980.
- d) 40 CFR 60 (July 1, ~~2024~~1994), including: and 40 CFR 60, appendix A, Method 24 (57 FR 30654, July 10, 1992).
- 1) Appendix A-1

 - A) Method 1 – Sample and Velocity Transverses for Stationary Sources

- B) Method 1A – Sample and Velocity Transverses for Stationary Sources with Small Stacks or Ducts
- C) Method 2 – Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)
- D) Method 2A – Direct Measurement of Gas Volume Through Pipes and Small Ducts
- E) Method 2C – Determination of Gas Velocity and Volumetric Flow Rate in Small Stacks or Ducts (Standard Pitot Tube)
- F) Method 2D – Measurement of Gas Volume Flow Rates in Small Pipes and Ducts
- 2) Appendix A-2: Method 3 – Gas Analysis for the Determination of Dry Molecular Weights
- 3) Appendix A-3: Method 4 – Determination of Moisture Content in Stack Gases
- 4) Appendix A-6: Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
- 5) Appendix A-7
 - A) Method 21 – Determination of Volatile Organic Compound Leaks
 - B) Method 22 – Visual Determination of Fugitive Emissions from Material Sources and Smoke Emissions from Flares
 - C) Method 24 – Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings
 - D) Method 24A – Determination of Volatile Matter Content and Density of Printing Inks and Related Coatings
 - E) Method 25 – Determination of Total Gaseous Nonmethane Organic Emissions as Carbon

F) Method 25A – Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer

6) Appendix A-8: Method 27 – Determination of Vapor Tightness of Gasoline Delivery Tank Using Pressure-Vacuum Test

- e) 40 CFR 61 (July 1, ~~2024~~1994).
- f) 40 CFR 50 (July 1, ~~2024~~1994).
- g) 40 CFR 51 (July 1, ~~2024~~1994) and 40 CFR ~~51~~.Appendix~~51~~, appendix M, Methods 204-204F (July 1, 1999).
- h) 40 CFR 52 (July 1, ~~2024~~1994).
- i) "A ~~Guideline~~Guide for Surface Coating Calculation", July 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016.
- j) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink and Other Coating" (revised June 1986), United States Environmental Protection Agency, Washington, D.C., EPA-450/3-84-019.
- k) "A ~~Guideline~~Guide for Graphic Arts Calculations", August 1988, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-88-003.
- l) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations", December 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-018.
- m) "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products", December 1978, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-029.
- n) "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", December 1978, Appendix B, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-051.
- o) "Control of Volatile Organic Compound Emissions from Large Petroleum Dry Cleaners", September 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-82-009.
- p) "APTI Course SI417 Controlling Volatile Organic Compound Emissions from

- 1641 Leaking Process Equipment", 1982, United States Environmental Protection
1642 Agency, Washington, D.C., EPA-450/2-82-015.
1643
- 1644 q) "Portable Instrument User's Manual for Monitoring VOC Sources", June 1986,
1645 United States Environmental Protection Agency, Washington, D.C., EPA-340/1-
1646 86-015.
1647
- 1648 r) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks
1649 of VOC and VHAP", October 1988, United States Environmental Protection
1650 Agency, Washington, D.C., EPA-450/3-88-010.
1651
- 1652 s) "Petroleum Refinery Enforcement Manual", March 1980, United States
1653 Environmental Protection Agency, Washington, D.C., EPA-340/1-80-008.
1654
- 1655 t) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline
1656 Marketing Operations: Appendix D", 1980, United States Environmental
1657 Protection Agency, Washington, D.C., EPA-340/1-80-012.
1658
- 1659 u) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals:
1660 Appendix A", December 1977, United States Environmental Protection Agency,
1661 Washington, D.C., EPA-450/2-77-026.
1662
- 1663 v) "Technical Guidance – Stage II Vapor Recovery Systems for Control of Vehicle
1664 Refueling Emissions at Gasoline Dispensing Facilities", November 1991, United
1665 States Environmental Protection Agency, Washington, D.C., EPA-450/3-91-022b.
1666
- 1667 w) California Air Resources Board, Compliance Division. Compliance Assistance
1668 Program: Gasoline Marketing and Distribution: Gasoline Facilities Phase I & II
1669 (October 1988, rev. November 1993) (CARB Manual).
1670
- 1671 x) South Coast Air Quality Management District (SCAQMD), Applied Science &
1672 Technology Division, Laboratory Services Branch, SCAQMD Method 309-91,
1673 Determination of Static Volatile Emissions (February 1993).
1674
- 1675 y) South Coast Air Quality Management District (SCAQMD), Applied Science &
1676 Technology Division, Laboratory Services Branch, SCAQMD Method 312-91,
1677 Determination of Percent Monomer in Polyester Resins (April 1996).
1678
- 1679 z) "Guidelines for Determining Capture Efficiency", January 1995, Office of Air
1680 Quality Planning and Standards, United States Environmental Protection Agency,
1681 Research Triangle Park NC.
1682
- 1683 aa) Memorandum "Revised Capture Efficiency Guidance for Control of Volatile

Organic Compound Emissions", February 1995, John S. Seitz, Director, Office of Air Quality Planning and Standards, United States Environmental Protection Agency.

- bb) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations", September 2008, United States Environmental Protection Agency, Washington, D.C., EPA-453/R-08-002.
- cc) 40 CFR 63, Subpart~~subpart~~ PPPP, Appendix~~appendix~~ A (July 1, 2024~~2008~~).
- dd) 46 CFR subchapter Q (October 1, 2024~~2007~~).
- ee) 46 CFR subchapter T (October 1, 2024~~2008~~).
- ff) Petroleum Equipment Institute, "Recommended Practices for Installation and Testing of Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP300-09 (2009).
- gg) Perry's Chemical Engineer's Handbook, 9th edition (2018), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.
- hh) CRC Handbook of Chemistry and Physics (2024), Chemical Rubber Publishing Company, Taylor & Francis, 2385 Executive Center Drive, Suite 320, Boca Raton, Florida 33431 (800) 634-7064.
- ii) Lange's Handbook of Chemistry, John A. Dean, ed. (1998), McGraw-Hill Book Company, 120 South Riverside Plaza, Chicago, Illinois 60606 (800) 338-3987.
- jj) The Vapor Pressure of Pure Substances; Boublik, T., V. Fried, and E. Hala (1973), Elsevier Scientific Publishing Company, 521 Fifth Avenue 7th Floor, New York, New York 10175 (212) 309-8100

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.113 Monitoring for Negligibly Reactive~~Negligibly- Reactive~~ Compounds

The requirements of 35 Ill. Adm. Code 215.109, which allows the Agency to require testing and monitoring for negligibly reactive~~negligibly-reactive~~ compound as a precondition to exempting them~~their exemption~~ from the definition of "volatile organic compound", applies~~shall apply~~ to owners and operators of sources subject to this Part.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.114 Compliance with Permit Conditions

~~A~~No person ~~must not~~shall violate any terms or conditions of a permit reflecting the requirements of this Part, operate any source except in compliance with its permit, or violate any other applicable requirements.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section 218.119 Applicability for VOL

a) ~~The limitations of~~ Section 218.120 ~~applies of this Subpart shall apply~~ to all storage containers of ~~volatile organic liquid (VOL)~~ with a maximum true vapor pressure of 0.5 psia or greater in any stationary tank, reservoir, or other container of 151 cubic meters (40,000 gal) capacity or greater, except ~~to vessels as provided below:~~

1a) Vessels with a capacity greater than or equal to 40,000 gallons storing a liquid with a maximum true pressure of less than 0.5 psia;

2b) Vessels of coke oven by-product plants;

3e) Pressure vessels designed to operate in excess of 29.4 psia and without emissions to the atmosphere;

4d) Vessels permanently attached to mobile vehicles such as trucks, rail cars, barges, or ships;

5e) Vessels storing petroleum liquids; or

6f) Vessels used to store beverage alcohol.

b~~g~~) Vessels with storage capacity less than 40,000 gallons must comply with Section 218.129(f).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.120 Control Requirements for Storage Containers of VOL

a) Every owner or operator storing VOL in a vessel of 40,000 gallons or greater with a maximum true vapor pressure equal to 0.75 psia but less than 11.1 psia must~~shall~~ reduce VOM emissions from storage tanks, reservoirs, or other

containers as follows:

- 1) Each fixed roof tank ~~must~~shall be equipped with an internal floating roof that meets the following specifications or that is equipped with a vapor control system that meets the specifications ~~contained~~ in subsection (a)(4) ~~below~~:
- A) The internal floating roof ~~must~~shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof ~~must~~shall be floating on the liquid surface at all times, except during initial fill and ~~during those intervals~~ when the storage vessel is completely emptied and subsequently refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling ~~must~~shall be continuous and ~~must~~shall be accomplished as rapidly as possible.
- B) Each internal floating roof ~~must~~shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
 - i) ~~A foam- or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal).~~ A liquid-mounted seal, ~~which is means~~ a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank;
 - ii) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous; or
 - iii) A mechanical shoe seal, which is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- C) Each opening in a noncontact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents, is to provide a projection below the liquid surface.

- 1813
- 1814 D) Each opening in the internal floating roof, except for leg sleeves,
- 1815 automatic bleeder vents, rim space vents, column wells, ladder
- 1816 wells, sample wells, and stub drains, ~~must is to~~ be equipped with a
- 1817 cover or lid which ~~must is to~~ be maintained in a closed position at
- 1818 all times (i.e., no visible gap) except when the device is in actual
- 1819 use. The cover or lid ~~must shall~~ be equipped with a gasket. Covers
- 1820 on each access hatch and automatic gauge float well ~~must shall~~ be
- 1821 bolted except when they are in use.
- 1822
- 1823 E) Automatic bleeder vents ~~must shall~~ be equipped with a gasket and
- 1824 ~~are to be~~ closed at all times when the roof is floating, except when
- 1825 the roof is being floated off or is being landed on the roof leg
- 1826 supports.
- 1827
- 1828 F) Rim space vents ~~must shall~~ be equipped with a gasket and ~~are to be~~
- 1829 set to open only when the internal floating roof is not floating or at
- 1830 the manufacturer's recommended setting.
- 1831
- 1832 G) Each penetration of the internal floating roof for ~~the purpose of~~
- 1833 sampling ~~must shall~~ be a sample well. The sample well ~~must shall~~
- 1834 have a slit fabric cover that covers at least ~~90%90 percent~~ of the
- 1835 opening.
- 1836
- 1837 H) Each penetration of the internal floating roof that allows for
- 1838 passage of a ladder ~~must shall~~ have a gasketed sliding cover.
- 1839
- 1840 2) During the next scheduled tank cleaning or before March 15, 2004,
- 1841 whichever comes first, each internal floating roof tank ~~must shall~~ meet the
- 1842 specifications ~~set forth~~ in subsections (a)(1)(A) through (H) ~~above~~.
- 1843
- 1844 3) Each external floating roof tank ~~must shall~~ meet the following
- 1845 specifications:
- 1846
- 1847 A) Each external floating roof ~~must shall~~ be equipped with a closure
- 1848 device between the wall of the storage vessel and the roof edge.
- 1849 The closure device ~~must is to~~ consist of two seals, one above the
- 1850 other. The lower seal is referred to as the primary seal, and the
- 1851 upper seal is referred to as the secondary seal.
- 1852
- 1853 i) Except ~~under as provided in~~ Section 218.127(b)(4) ~~of this~~
- 1854 ~~Subpart~~, the primary seal ~~must shall~~ completely cover the
- 1855 annular space between the edge of the floating roof and

tank wall and ~~must~~shall be either a liquid mounted seal or a shoe seal.

ii) The secondary seal ~~must~~shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion, except as allowed in Section 218.127(b)(4)-~~of this Subpart~~.

iii) The tank ~~must~~shall be equipped with the closure device after the next scheduled tank cleaning, but ~~by no later than~~ March 15, 2004.

B) Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof ~~must~~shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, each opening in the roof ~~must is to~~ be equipped with a gasketed cover, seal, or lid ~~that is to be~~ maintained in a closed position at all times (i.e., no visible gap), except when the device is in actual use. Automatic bleeder vents ~~must are to~~ be closed at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Rim vents ~~must are to~~ be set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Automatic bleeder vents and rim space vents ~~must are to~~ be gasketed. Each emergency roof drain ~~must is to~~ be provided with a slotted membrane fabric cover that covers at least ~~90% 90 percent~~ of the area of the opening.

C) The roof ~~must~~shall be floating on the liquid at all times (i.e., off the roof leg supports) except when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports ~~must~~shall be continuous and ~~shall be~~ accomplished as rapidly as possible.

4) A closed vent system and control device ~~must respectively shall~~ meet the following specifications:

A) The closed vent system ~~must~~shall be designed to collect all VOM vapors and gases discharged from the storage vessel and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined by the methods ~~specified~~ in 40 CFR 60.485(c), incorporated by reference at Section 218.112(d)-~~of this Part~~.

B) The control device ~~must~~shall be designed and operated to reduce inlet VOM emissions by ~~95%95 percent~~ or greater. If a flare is used as the control device, it ~~must~~shall meet the specifications ~~described~~ in the general control device requirements of 40 CFR 60.18, incorporated by reference at Section 218.112(d) ~~of this Part~~.

5) An alternative emission control plan equivalent to the requirements of subsection (a)(1), (a)(2), (a)(3), or (a)(4) ~~above~~ that has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

b) The owner or operator of each storage vessel with a design capacity ~~of at least equal to or greater than~~ 40,000 gallons which contains VOL that, as stored, has a maximum true vapor pressure greater than or equal to 11.1 psia ~~must~~shall equip each storage vessel with a closed vent system and control device as specified in subsection (a)(4) ~~above~~.

c) ~~Despite Notwithstanding~~ subsection (b) ~~of this Section~~, where an owner or operator can demonstrate that the control device installed on a storage vessel on or before December 31, 1992, was designed to reduce inlet VOM emissions by ~~at least 90% greater than or equal to 90 percent~~ but less than ~~95%95 percent~~, the control device ~~must~~shall be operated to reduce inlet VOM ~~emission~~emission by ~~at least 90%90 percent or greater~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.121 Storage Containers of VPL

~~A No~~ person ~~must not~~shall cause or allow the storage of any volatile petroleum liquid (VPL) with a vapor pressure of 10.34 kPa (1.5 psia) or greater at ~~294.3 °K (70 °F)~~294.3° K (70° F) or any gaseous organic material in any stationary tank, reservoir, or other container of more than 151 cubic meters (40,000 gal) capacity unless ~~the such~~ tank, reservoir, or other container:

a) Is a pressure tank capable of withstanding the vapor pressure of ~~the such~~ liquid or the pressure of the gas, ~~so as~~ to prevent vapor or gas loss to the atmosphere at all times; or

b) Is designed and equipped with one of the following vapor loss control devices:

1) A floating roof which rests on the surface of the VPL and is equipped with a closure seal or seals between the roof edge and the tank wall. ~~The Such~~ floating roof ~~must~~shall not be permitted if the VPL has a vapor pressure of

86.19 kPa (12.5 psia) or greater at ~~294.3 °K (70 °F)~~ ~~294.3° K (70° F)~~. ~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to ~~thesueh~~ tanks, except during sampling or maintenance operations.

- 2) A vapor recovery system consisting of:
 - A) A vapor gathering system capable of collecting 85% or more of the uncontrolled VOM that would be otherwise emitted to the atmosphere; and
 - B) A vapor disposal system capable of processing ~~such~~ VOM ~~so as~~ to prevent its emission to the atmosphere. ~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the emission of air contaminants into the atmosphere from any gauging or sampling devices attached to ~~asueh~~ tank, reservoir, or other container except during sampling.
- 3) Other equipment or means of equal efficiency approved by the Agency ~~under~~~~according to the provisions of~~ 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.122 Loading Operations

- a) ~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere during the loading of any organic material from the aggregate loading pipes of any loading area ~~with~~ ~~ahaving~~ through-put ~~of~~ greater than 151 cubic meters per day (40,000 gal/day) into any railroad tank car, tank truck, or trailer, unless ~~thesueh~~ loading area is equipped with submerged loading pipes or a device that is equally effective in controlling emissions and is approved by the Agency ~~under~~~~according to the provisions of~~ 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108.
- b) ~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the loading of any organic material into any stationary tank ~~with~~ ~~having~~ a storage capacity ~~of~~ greater than 946 ~~l~~ (250 gal), unless ~~thesueh~~ tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Agency ~~under~~~~according to the provisions of~~ 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108 ~~of this Part~~, or unless ~~thesueh~~ tank is a pressure tank ~~under~~~~as described in~~ Section 218.121(a) ~~of this Part~~ or is fitted with a recovery system ~~under~~~~as described in~~ Section 218.121(b)(2) ~~of this Part~~.

- c) Exception: If no odor nuisance exists, ~~the limitations of~~ this Section ~~applies~~ shall only ~~apply to the~~ loading ~~of~~ VOL with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 °K (70 °F)~~294.3° K (70° F)~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.123 Petroleum Liquid Storage Tanks

- a) ~~Subsection The requirements of subsection~~ (b) ~~does of this Section shall~~ not apply to any stationary storage tank:
- 1) Equipped before January 1, 1979, with one of the vapor loss control devices ~~specified~~ in Section 218.121(b) ~~of this Part~~, except Section 218.121(b)(1) ~~of this Part~~;
 - 2) With a capacity ~~of~~ less than 151.42 cubic meters (40,000 gal);
 - 3) With a capacity ~~of~~ less than 1,600 cubic meters (422,400 gal) and used to store produced crude oil and condensate ~~before prior to~~ custody transfer;
 - 4) With a capacity ~~of~~ less than 1,430 cubic meters (378,000 gal) and used to store produced oil or condensate in crude oil gathering;
 - 5) Subject to new source performance standards for storage vessels of petroleum liquid, 40 CFR 60, as regulations promulgated by ~~USEPA the~~ U.S. Environmental Protection Agency under Section 111 of the CAA [42 U.S.C. 7411] Clean Air Act (42 USC 7411), as amended. *The provisions of Section 111 of the Clean Air Act ... are applicable in this State and are enforceable under the Environmental Protection Act [the Environmental Protection Act] (Ill. Rev. Stat. 1991, ch. 111 1/2, par. 1009.1(b)) [415 ILCS 5/9.1(b)]*;
 - 6) In which VPL ~~volatile petroleum liquid~~ is not stored; or
 - 7) Which is a pressure tank ~~under as described in~~ Section 218.121(a) ~~of this Part~~.
- b) Subject to subsection (a), ~~an of this Section no~~ owner or operator of a stationary storage tank ~~must not shall~~ cause or allow the storage of any VPL ~~volatile petroleum liquid~~ in the tank unless:
- 1) The tank is equipped with one of the vapor loss control devices ~~underspecified in~~ Section 218.121(b) ~~of this Part~~;

- 2) There are no visible holes, tears, or other defects in the seal or any seal fabric or material of any floating roof;
- 3) All openings of any floating roof deck, except stub drains, are equipped with covers, lids, or seals ~~such~~ that:
 - A) The cover, lid, or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank;
 - B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; and
 - C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting;
- 4) Routine inspections of floating roof seals are conducted through roof hatches once every six months;
- 5) A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than ~~transferring the~~ ~~transfer of~~ petroleum liquid during the normal operation of the tank, or whenever repairs are made ~~because as a result~~ of any semi-annual inspection or incidence of roof damage or defect; and
- 6) A record of the results of each inspection conducted under subsection (b)(4) or (b)(5) ~~of this Section~~ is maintained.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.124 External Floating Roofs

- a) In addition to meeting the requirements of Section 218.123(b) ~~of this Part~~, ~~an~~ owner or operator of a stationary storage tank equipped with an external floating roof ~~must not shall~~ cause or allow the storage of any ~~VPL volatile petroleum liquid~~ in the tank unless:
 - 1) The tank has been fitted:
 - A) With a continuous secondary seal extending from the floating roof to the tank wall (rim mounted secondary seal); ~~or~~

B) With any other equipment or means of equal efficiency approved by the Agency ~~under~~according to the provisions of 35 Ill. Adm. Code 201, and ~~further~~ processed consistent with Section 218.108 ~~of this Part~~;

2) Each seal closure device meets the following requirements:

A) The seal is intact and uniformly in place around the circumference of the floating roof between the floating roof and tank wall; and

B) The accumulated area of gaps exceeding 0.32 ~~cm~~centimeter ($\frac{1}{8}$ ~~in.~~inch) in width between the secondary seal and the tank wall ~~doesshall~~ not exceed 21.2 square ~~cm~~centimeters per meter of tank diameter (1.0 square ~~in.~~inches per foot of tank diameter). Compliance with this requirement ~~mustshall~~ be determined by:

i) Physically measuring the length and width of all gaps around the entire circumference of the secondary seal in each place where a 0.32 cm (0.125 in.) uniform diameter probe passes freely (without forcing or binding against the seal) between the seal and the tank wall; and

ii) Summing the area of the individual gaps.

3) Emergency roof drains are provided with slotted membrane fabric covers or equivalent covers across at least ~~90%~~90 percent of the area of the opening;

4) Openings are equipped with projections into the tank which remain below the liquid surface at all times;

5) Inspections are conducted ~~beforeprior to~~ May 1 of each year to ~~ensureinsure~~ compliance with subsection (a) ~~of this Section~~;

6) The secondary seal gap is measured ~~beforeprior to~~ May 1 of each year and within 30 days ~~afterof~~ a written request to demonstrate compliance with subsection (2)(B) ~~of this Section~~;

7) Records of the types of ~~VPL~~volatile petroleum liquid stored, the maximum true vapor pressure of the liquid as stored, the results of the inspections, and the results of the secondary seal gap measurements are maintained and available to the Agency, upon verbal or written request, at any reasonable time for ~~at leasta minimum of~~ two years after the date on

which the record was made.

- b) Subsection (a) ~~above~~ does not apply to any stationary storage tank equipped with an external floating roof:
- 1) Exempted under Section 218.123(a)(2) through 218.123(a)(6) ~~of this Part~~;
 - 2) Of welded construction equipped with a metallic type shoe seal ~~and having~~ a secondary seal from the top of the shoe seal to the tank wall (shoe-mounted secondary seal);
 - 3) Of welded construction equipped with a metallic type shoe seal, a liquid-mounted foam seal, a liquid-mounted liquid-filled-type seal, or other closure device of equivalent control efficiency approved by the Agency in which a petroleum liquid with a true vapor pressure less than 27.6 kPa (4.0 psia) at ~~294.3 °K (70 °F)~~ 294.3° K (70° F) is stored; or
 - 4) Used to store crude oil with a pour point of ~~50° F~~ 50° F or higher as determined by ASTM Standard ~~D97-17b (2022)~~, D97-66 incorporated by reference in Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.125 Compliance Dates

Every owner or operator of a VOL or VPL storage vessel subject to ~~the requirements of~~ this Subpart ~~must~~ shall comply with ~~the requirements of~~ this Subpart by the deadline in accordance with the compliance schedule specified in the applicable subsection ~~below~~:

- a) Every owner or operator of a VPL storage vessel ~~under of the type included in~~ Sections 218.121, 218.123, and 218.124 ~~must of this Subpart shall~~ have complied with ~~the requirements of~~ Sections 218.121, 218.123, and 218.124 by the date ~~set forth~~ in Section 218.106(a) or (b) ~~of this Part~~.
- b) Every owner or operator of a VOL storage vessel ~~under of the type identified in~~ Section 218.119 ~~must of this Subpart shall~~ comply with ~~the requirements of~~ Section 218.120 ~~of this Subpart~~ as follows:
 - 1) For fixed roof tanks (Section 218.120(a)(1) ~~of this Subpart~~), by March 15, 1996.
 - 2) For internal floating roof tanks (Section 218.120(a)(2) ~~of this Subpart~~), either during the next scheduled tank cleaning or by March 15, 2004,

whichever comes first;

- 3) For external floating roof tanks (Section 218.120(a)(3)-~~of this Subpart~~), either during the next scheduled tank cleaning or by March 15, 2004, whichever comes first; and
- 4) For closed vent system and control device equipped tanks (Section 218.120(a)(4)-~~of this Subpart~~), by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.127 Testing VOL Operations

The owner or operator of each storage vessel specified in Section 218.119 ~~must of this Subpart~~ ~~shall~~ comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~below~~. The applicable subsection for a particular storage vessel depends on the control equipment installed to meet the requirements of this Subpart.

- a) After installing the control equipment necessary for the source to comply with ~~the requirements of~~ Section 218.120(a)(1) or (2) ~~of this Subpart~~ (permanently affixed roof and internal floating roof), each owner or operator ~~must~~ shall:
 - 1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service) ~~before~~ prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator ~~must~~ shall repair the items before filling the storage vessel.
 - 2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, ~~or if~~ there is liquid accumulated on the roof, ~~or if~~ the seal is detached, or if there are holes or tears in the seal fabric, the owner or operator ~~must~~ shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure ~~that is~~ detected during inspections required in this subsection cannot be repaired within 45 days, and if the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(a)(3) ~~of this Subpart~~. ~~The~~ Such a request for an extension must document that alternate storage capacity is unavailable

and specify a schedule of actions the owner or operator will take to ensure that will assure that the control equipment will be repaired or the vessel will be emptied within 30 days.

3) For vessels equipped with both primary and secondary seals:

A) Visually inspect the vessel as specified in subsection (a)(4) ~~below~~ at least every five years; or

B) Visually inspect the vessel as specified in subsection (a)(2) ~~above~~.

4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes, and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal, or if the seal fabric or the secondary seal has holes, tears, or other openings in the seal, or if the seal fabric or the gaskets no longer close off the liquid surfaces from the atmosphere, or if the slotted membrane has more than 10% ~~10 percent~~ open area, the owner or operator must shall repair the items as necessary so that none of the conditions ~~specified~~ in this subsection exists before refilling the storage vessel with VOL. ~~InspectionsIn no event shall inspections~~ conducted in ~~compliance accordance~~ with this ~~subsection must provision~~ occur at least once every intervals greater than 10 years ~~for in the case of~~ vessels ~~undergoing conducting~~ the annual visual inspection ~~under as specified in~~ subsections (a)(2) and (a)(3)(B) ~~above~~ and at least once every five intervals no greater than 5 years ~~for in the case of~~ vessels ~~underspecified in~~ subsection (a)(3)(A) ~~above~~.

5) Notify the Agency in writing at least 30 days ~~before prior to the~~ filling or refilling ~~of~~ each storage vessel for which an inspection is required by subsections (a)(1) and (a)(4) ~~above~~ to afford the Agency the opportunity to have an observer present. If the inspection required by subsection (a)(4) ~~above~~ is not planned and the owner or operator could not have known about the inspection 30 days ~~before in advance of~~ refilling the tank, the owner or operator must shall notify the Agency at least seven ~~7~~ days ~~before prior to the~~ refilling ~~of~~ the storage vessel. Notification must shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that the Agency receives it it is received by the Agency at least seven ~~7~~ days ~~before prior to the~~ refilling.

- b) The owner or operator of external floating roof tanks mustshall:
- 1) Determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel and between the secondary seal and the wall of the storage vessel.
 - A) Measurements of gaps between the tank wall and the primary seal (seal gaps) mustshall be performed during the hydrostatic testing of the vessel or within 60 days after the initial fill with VOL and then at least once every five years ~~thereafter~~.
 - B) Measurements of gaps between the tank wall and the secondary seal mustshall be performed within 60 days after the initial fill with VOL and then at least once per year ~~thereafter~~.
 - C) If any source ceases to store VOL for onea period of 1 year or more, subsequent introduction of VOL into the vessel mustshall be considered an initial fill for ~~the purposes of~~ subsections (b)(1)(A) and (b)(1)(B) ~~above~~.
 - 2) Determine gap widths and areas in the primary and secondary seals individually according to the following procedures:
 - A) Measure seal gaps, if any, at one or more floating roof levels when the roof is floating off the roof leg supports;
 - B) Measure seal gaps around the entire circumference of the tank in each place where a 1/8 inch in diameter uniform probe passes freely (without forcing or binding against seal) between the seal and the wall of the storage vessel, and measure the circumferential distance of each ~~such~~ location; and
 - C) Determine the total surface area of each gap described in subsection (b)(2)(B) ~~above~~ by using probes of various widths to measure accurately the actual distance from the tank wall to the seal and multiplying each ~~such~~ width by its respective circumferential distance.
 - 3) Add the gap surface area of each gap location for the primary seal and the secondary seal individually, ~~and~~ divide the sum for each by the nominal diameter of the tank, and compare each ratio to the ~~respective~~ standards in subsection (b)(4) ~~below~~.

- 4) Make necessary repairs or empty the storage vessel within 45 days after identification in any inspection for seals not meeting the requirements ~~listed~~ in subsections (b)(4)(A) and (B) ~~below~~:
- A) The accumulated area of gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal ~~must~~shall not exceed 10 in. ~~(2)~~ per foot of tank diameter, and the width of any portion of any gap ~~must~~shall not exceed 1.5 in. There ~~must not~~are ~~to be~~no holes, tears, or other openings in the shoe, seal fabric, or seal envelope.
- B) The secondary seal ~~must~~is ~~to~~ meet the following requirements:
- i) The secondary seal ~~must~~is ~~to~~ be installed above the primary seal so that it completely covers the space between the roof edge and the tank wall, except ~~under~~as provided in subsection (b)(2)(C) ~~above~~.
- ii) The accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal ~~must~~shall not exceed 1.0 in. ~~(2)~~ per foot of tank diameter, and the width of any portion of any gap ~~must~~shall not exceed 0.5 in. There ~~must not~~shall be ~~no~~ gaps between the tank wall and the secondary seal when used ~~in combination~~ with a vapor mounted primary seal.
- iii) There ~~must not~~are ~~to be~~no holes, tears, or other openings in the seal or seal fabric.
- C) If a failure ~~that is~~ detected during inspections required in Section 218.127(b)(1) ~~of this Subpart~~ cannot be repaired within 45 days and ~~if~~ the vessel cannot be emptied within 45 days, the owner or operator may request a 30-day extension from the Agency in the inspection report required in Section 218.129(b)(4) ~~of this Subpart~~. ~~The~~Such extension request must include a demonstration of unavailability of alternate storage capacity and ~~a specification of a~~ specific schedule that will ~~ensure~~assure ~~that~~ the control equipment will be repaired or the vessel ~~will be~~ emptied as soon as possible.
- 5) Notify the Agency 30 days ~~before~~in advance of any gap measurements required by subsection (b)(1) ~~above~~ to afford the Agency the opportunity to have an observer present.

- 6) Visually inspect the external floating roof, ~~the~~ primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.
- A) If the external floating roof has defects, ~~if~~ the primary seal has holes, tears, or other openings in the seal or the seal fabric, or ~~if~~ the secondary seal has holes, tears, or other openings in the seal or the seal fabric, the owner or operator must ~~shall~~ repair the items as necessary so that none of the conditions ~~specified~~ in this subsection exist before filling or refilling the storage vessel with VOL.
- B) For all the inspections required by subsection (b)(6) ~~above~~, the owner or operator must ~~shall~~ notify the Agency in writing at least 30 days ~~before~~ prior to filling or refilling ~~of~~ each storage vessel to afford the Agency the opportunity to inspect the storage vessel ~~before~~ prior to the refilling of the storage vessel. Notification must ~~shall~~ be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be sent by express mail so that the Agency receives it ~~is received by the Agency~~ at least seven ~~7~~ days ~~before~~ prior to the refilling.
- c) The owner or operator of each source ~~that is~~ equipped with a closed vent system and a flare to meet the requirements of Section 218.120(a)(4) ~~must of this Subpart~~ shall meet ~~the requirements specified in~~ the general control device requirements of 40 CFR 60.18(e) and (f), incorporated by reference at Section 218.112(d) ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.128 Monitoring VOL Operations

- a) Except ~~under as provided in~~ subsection (d), the owner or operator of each storage vessel with a design capacity ~~of at least greater than or equal to~~ 40,000 gallons storing a liquid with a maximum true vapor pressure that is normally less than 0.75 psia must ~~shall~~ notify the Agency within 30 days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.
- b) Available data on the storage temperature may be used to determine the maximum true vapor pressure.
- 1) For vessels operated above or below ambient temperatures, the maximum

true vapor pressure is calculated based ~~on upon~~ the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based ~~on upon~~ the maximum local monthly average ambient temperature as reported by the National Weather Service.

2) For other liquids, the vapor pressure must be:

- A) Determined by ASTM Method ~~D879-83~~~~D-879-83~~, incorporated by reference at Section 218.112(a) ~~of this Part~~;
- B) Measured by an appropriate method approved by the Agency and USEPA; or
- C) Calculated by an appropriate method approved by the Agency and USEPA.

c) The owner or operator of each vessel storing a mixture of indeterminate or variable composition ~~are shall be~~ subject to the following:

- 1) ~~Before~~~~Prior to~~ the initial filling of the vessel, the maximum true vapor pressure for the range of anticipated liquid compositions to be stored ~~must will~~ be determined using the methods ~~described~~ in subsection (b).
- 2) For vessels in which the vapor pressure of the anticipated liquid composition is at least 0.5 psia ~~or greater~~ but less than 0.75 psia, an initial physical test of the vapor pressure is required; then a physical test is required at least once every ~~six~~~~6~~ months ~~using one of thereafter is required as determined by~~ the following methods:

- A) ASTM Method ~~D2879-18~~~~D-2879-83~~, incorporated by reference at Section 218.112(a) ~~of this Part~~;
- B) ASTM Method ~~D323-20a~~~~D-323-08~~, incorporated by reference at Section 218.112(a) ~~of this Part~~; or
- C) ~~An As measured by an~~ appropriate method approved by the Agency.

d) The owner or operator of each vessel equipped with a closed vent system and control device meeting the specifications of Section 218.120 ~~of this Subpart~~ is exempt from the requirements of subsections (a) and (b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.129 Recordkeeping and Reporting for VOL Operations

The owner or operator of each storage vessel specified in Section 218.120(a) ~~must of this Subpart shall~~ maintain records and furnish reports as required by subsection (a), (b), or (c) ~~below~~ as appropriate for the control equipment installed to meet the requirements of Section 218.120. The owner or operator ~~must shall~~ keep copies of all reports and records required by this Section, except for the records required by subsection (c)(1) ~~below~~, for at least ~~three~~3 years. The records required by subsection (c)(1) ~~must below shall~~ be kept for the life of the control equipment.

- a) After installing control equipment in ~~compliance accordance~~ with Section 218.120(a)(1) or (2) ~~of this Subpart~~ (fixed roof and internal floating roof), the owner or operator ~~must shall~~:
 - 1) Furnish the Agency with a report that describes the control equipment and certifies that the control equipment meets the specifications of Section 218.120(a)(1) and 218.127(a)(1) ~~of this Subpart~~;
 - 2) Keep a record of each inspection performed as required by Section 218.127(a)(1), (a)(2), (a)(3), and (a)(4) ~~of this Subpart~~. Each record ~~must shall~~ identify the storage vessel on which the inspection was performed and ~~must shall~~ contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings);
 - 3) If any of the conditions ~~described~~ in Section 218.127(a)(2) ~~of this Subpart~~ are detected during the annual visual inspection required by Section 218.127(a)(2), report to the Agency within 30 days after the inspection the identity of the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made; and
 - 4) After each inspection required by Section 218.127(a)(3) ~~of this Subpart~~ where holes or tears in the seal or seal fabric, ~~or~~ defects in the internal floating roof, or other control equipment defects ~~listed~~ in Section 218.127(a)(3)(B) ~~of this Subpart~~ are discovered, report to the Agency within 30 days after the inspection the identity of the storage vessel and the reason it did not meet the specifications of Section 218.120(a)(1) or (2) or Section 218.127(a) ~~of this Subpart~~, and list each repair made.
- b) After installing control equipment in ~~compliance accordance~~ with Section 218.120(a)(3) ~~of this Subpart~~ (external floating roof), the owner or operator

mustshall:

- 1) Furnish the Agency with a report that describes the control equipment, and certify that the control equipment meets the specifications of Sections 218.120(a)(3) and 218.127(b)(2), (b)(3), and (b)(4) ~~of this Subpart~~;
 - 2) Within 60 days after performing the seal gap measurements required by Section 218.127(b)(1) ~~of this Subpart~~, furnish the Agency with a report that contains:
 - A) The date of measurement;
 - B) The raw data obtained in the measurement; and
 - C) The calculations ~~of this Subpart~~ described in Section 218.127(b)(2) and (b)(3) ~~of this Subpart~~;
 - 3) Maintain records of each gap measurement performed as required by Section 218.127(b) ~~of this Subpart~~. ~~The Such~~ records mustshall identify the storage vessel in which the measurement was performed and mustshall contain:
 - A) The date of measurement;
 - B) The raw data obtained in the measurement; and
 - C) The calculations described in Section 218.127(b)(2) and (b)(3) ~~of this Subpart~~;
 - 4) After each seal gap measurement that detects gaps exceeding the limitations ~~underspecified by~~ Section 218.127(b)(4) ~~of this Subpart~~, submit a report to the Agency within 30 days after the inspection identifying the vessel and containing the information ~~specified~~ in subsection (b)(2) ~~above~~ and the date the vessel was emptied or the repairs were made and the date of repair.
- c) After installing control equipment in ~~compliance~~accordance with Section 218.127(a)(4) or (b)(1) ~~of this Subpart~~ (closed vent system and control device other than a flare), the owner or operator mustshall maintain ~~the following~~ records:
- 1) A copy of the operating plan; and

- 2) The measured values of the parameters monitored in compliance ~~accordance~~ with Section 218.127(c)(2) ~~of this Subpart~~.
- d) After installing a closed vent system and flare to comply with Section 218.127 ~~of this Subpart~~, the owner or operator must ~~shall~~:
 - 1) Provide the Agency with a report containing the measurements required by 40 CFR 60.18(f)(1), (2), (3), (4), (5), and (6), incorporated by reference at Section 218.112(d) ~~of this Part~~, within six ~~6~~ months after the initial start-up date;
 - 2) Maintain records of all periods of operation during which the flare pilot flame is absent; and
 - 3) Report semiannually all periods recorded under 40 CFR 60.115b(d)(2), incorporated by reference at Section 218.112(d) ~~of this Part~~, in which the pilot flame was absent.
- e) The owner or operator must ~~shall~~ maintain all records required by this Section, except for the records required by subsection (f) ~~below~~, for at least three ~~3~~ years. The records required by subsection (f) must ~~below shall~~ be kept for the life of the source.
- f) The owner or operator of each storage vessel specified in Section 218.119 must ~~of this Subpart shall~~ maintain readily accessible records of the dimension of the storage vessel and an analysis of the capacity of the storage vessel. Each storage vessel with a design capacity less than 40,000 gallons is not subject to ~~no~~ provisions of this Part, other than the requirement to maintain those required by maintaining readily accessible records of the dimensions of the storage vessel and analysis of the capacity of the storage vessel.
- g) Except under as provided in Section 218.128(c) and (d) ~~of this Subpart~~, the owner or operator of each storage vessel subject to ~~the requirements in~~ Section 218.120 with a design capacity of at least ~~greater than or equal to~~ 40,000 gallons storing a liquid with a maximum true vapor pressure at least ~~greater than or equal to~~ 0.5 psia but less than 0.75 psia must ~~shall~~ maintain a record of the VOL storage, the period of storage, and the maximum true vapor pressure of the VOL during the respective storage period.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section 218.141 Separation Operations

- a) ~~A~~~~No~~ person ~~must not~~~~shall~~ use any single or multiple compartment effluent water separator which receives effluent water containing ~~757~~ ~~1/day~~~~1/day~~ (200 gal/day) or more of organic material from any equipment processing, refining, treating, storing, or handling organic material, unless ~~the~~~~such~~ effluent water separator is equipped with air pollution control equipment capable of reducing by ~~at least~~ ~~85%~~~~85 percent or more~~ the uncontrolled organic material emitted to the atmosphere. ~~However, if~~~~Exception: If~~ no odor nuisance exists, the limitations of this subsection ~~do~~~~shall~~ not apply if the vapor pressure of the organic material is below 17.24 kPa (2.5 psia) at ~~294.3 °K (70 °F)~~~~294.3° K (70° F)~~.
- b) Subsection (a) ~~does of this Section~~~~shall~~ not apply to water and crude oil separation in the production of Illinois crude oil, if the vapor pressure of ~~the~~~~such~~ crude oil is less than 34.5 kPa (5 psia).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.142 Pumps and Compressors

~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the discharge of more than 32.8 ml (2 cu in.) of VOL with vapor pressure of 17.24 kPa (2.5 psia) or greater at ~~294.3 °K (70 °F)~~~~294.3° K (70° F)~~ into the atmosphere from any pump or compressor in any ~~15-minute~~~~15 minute~~ period at standard conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.143 Vapor Blowdown

~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the emission of organic material into the atmosphere from any vapor blowdown system or any safety relief valve, except ~~such~~ safety relief valves not capable of causing an excessive release, unless ~~the~~~~such~~ emission is controlled:

- a) To 10 ppm equivalent methane (molecular weight 16.0) or less; ~~or~~,
- b) By combustion in a smokeless flare; or,
- c) By other air pollution control equipment approved by the Agency ~~under~~~~according~~ ~~to the provisions of~~ 35 Ill. Adm. Code 201, and ~~further~~ processed ~~under~~~~consistent~~ ~~with~~ Section 218.108 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.144 Safety Relief Valves

Section 218.143 ~~does of this Part shall~~ not apply to any set of unregulated safety relief valves capable of causing excessive releases ~~if, provided~~ the owner or operator ~~thereof~~, by October 1, 1972, supplied the Agency with ~~the following~~:

- a) A historical record of each ~~such~~ set (or, if ~~thesuch~~ records were unavailable, of similar sets which, by virtue of operation under similar circumstances, may reasonably have been presumed to have the same or greater frequency of excessive releases) for a three-year period immediately preceding October 1, 1972, indicating:
 - 1) Dates on which excessive releases occurred from each ~~such~~ set; ~~and~~
 - 2) Duration in minutes of each ~~such~~ excessive release; and
 - 3) Quantities ~~(in pounds)~~ of mercaptans ~~or and/or~~ hydrogen sulfide or both emitted into the atmosphere during each ~~such~~ excessive release;
- b) Proof, using ~~thesuch~~ three-year historical records, that no excessive release is likely to occur from any ~~such~~ set either alone or in combination with ~~such~~ excessive releases from other sets owned or operated by the same person and located within a 10-mile ten mile radius from the center point of any ~~such~~ set; more frequently than ~~three~~ times in any 12-month 12 month period;
- c) Accurate maintenance records ~~underpursuant to the requirements of~~ subsection (a) ~~of this Section~~; and;
- d) Proof, at three-year intervals, using ~~thesuch~~ three-year historical records, that ~~thesuch~~ set conforms to ~~the requirements of~~ subsection (c) ~~of this Section~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART E: SOLVENT CLEANING

Section 218.181 Solvent Cleaning Degreasing Operations

~~The requirements of~~ Sections 218.182, 218.183, 218.184, and 218.186 ~~of this Subpart shall~~ apply to all cold cleaning, open top vapor degreasing, and conveyorized degreasing operations which use VOM ~~volatile organic materials~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.182 Cold Cleaning

- a) Operating Procedures: ~~A~~~~No~~ person ~~must not~~~~shall~~ operate a cold cleaning degreaser unless:
- 1) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 2) The cover of the degreaser is closed when parts are not being handled; and
 - 3) Parts are drained until dripping ceases.
- b) Equipment Requirements: ~~A~~~~No~~ person ~~must not~~~~shall~~ operate a cold cleaning degreaser unless:
- 1) The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover ~~must not~~~~shall~~ be designed to be easily operated with one hand or with the mechanical assistance of springs, counter-weights, or a powered system if:
 - A) The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38 °C (100 °F)~~38° C (100° F)~~;
 - B) The solvent is agitated; or
 - C) The solvent is heated above ambient room temperature.
 - 2) The degreaser is equipped with a device for draining cleaned parts. The drainage device ~~must not~~~~shall~~ be constructed so that parts are enclosed under the cover while draining, unless:
 - A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38 °C (100 °F)~~38° C (100° F)~~; or
 - B) An internal drainage device cannot be fitted into the cleaning system, in which case the drainage device may be external.
 - 3) The degreaser is equipped with one of the following control devices if the vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38 °C (100 °F)~~38° C (100° F)~~ or if the solvent is heated above 50 °C (120 °F)~~50° C (120° F)~~ or its boiling point:

- 2673 A) A freeboard height of $\frac{7}{10}$ of the inside width of the tank or 91 cm
 2674 (36 in.), whichever is less; or
 2675
 2676 B) Any other equipment or system of equivalent emission control ~~as~~
 2677 approved by the Agency and ~~further~~ processed ~~undereonsistent~~
 2678 ~~with~~ Section 218.108 ~~of this Part~~. ~~The Such a~~ system may include
 2679 a water cover, refrigerated chiller, or carbon adsorber.
 2680
 2681 4) A permanent conspicuous label summarizing the operating procedure is
 2682 affixed to the degreaser; and
 2683
 2684 5) If a solvent spray is used, the degreaser is equipped with a solid fluid
 2685 stream spray, rather than a fine, atomized, or shower spray.
 2686
 2687 c) Material and Control Requirements:
 2688
 2689 1) On and after March 15, 1999, ~~a no~~ person must not shall:
 2690
 2691 A) Cause or allow the sale of solvent with a vapor pressure which
 2692 exceeds 2.0 mmHg (0.038 psi) measured at 20 °C (68 °F) ~~20° C~~
 2693 ~~(68° F)~~ in units greater than five gallons, for use in cold cleaning
 2694 degreasing operations ~~located~~ in the area described in covered by
 2695 Section 218.103 ~~of this Part~~.
 2696
 2697 B) Operate a cold cleaning degreaser with a solvent vapor pressure
 2698 which exceeds 2.0 mmHg (0.038 psi) measured at 20 °C (68 °F) ~~20°~~
 2699 ~~C (68° F)~~.
 2700
 2701 2) On and after March 15, 2001, ~~a no~~ person must not shall:
 2702
 2703 A) Cause or allow the sale of solvent with a vapor pressure which
 2704 exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) ~~20° C~~
 2705 ~~(68° F)~~ in units greater than five gallons, for use in cold cleaning
 2706 degreasing operations ~~located~~ in the area described in covered by
 2707 Section 218.103 ~~of this Part~~.
 2708
 2709 B) Operate a cold cleaning degreaser with a solvent vapor pressure
 2710 which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) ~~20°~~
 2711 ~~C (68° F)~~.
 2712
 2713 3) On and after May 30, 2007, ~~a no~~ person must not shall:
 2714

A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F)~~20° C (68° F)~~ in units greater than five gallons; for use in cold cleaning degreasing operations ~~located~~ in the area described in~~covered by~~ Section 218.103 ~~of this Part~~, unless the purchaser provides a copy of a valid State or federal construction or operating permit or a copy of the Federal Register demonstrating that the purchaser is in compliance with ~~the control requirements of~~ subsection (c)(4) ~~of this Section~~ or ~~is~~ exempt under subsection (f) or (g) ~~of this Section~~.

B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F)~~20° C (68° F)~~, unless the person is in compliance with ~~the control requirements of~~ subsection (c)(4) ~~of this Section~~ or ~~is~~ exempt under subsection (f) or (g) ~~of this Section~~.

4) Control Requirements:

A) A person may operate a cold cleaning degreaser using solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) but less than 56 mmHg (1.064 psi) measured at 20 °C (68 °F) ~~if~~~~20° C (68° F)~~ provided add-on control devices demonstrating at least 95%~~95 percent~~ overall capture and control of emissions are used. The add-on controls may include, ~~but are not limited to~~, carbon adsorbers or afterburners.

B) An equivalent alternative control plan may be used to meet the control requirements of this Section ~~under~~~~pursuant to~~ Section 218.108 ~~of this Part~~. ~~Under~~~~Pursuant to~~ the material requirements of subsection (c)(3)(B) ~~of this Section~~, a solvent with a vapor pressure of 1.0 mmHg (0.019 psi) measured at 20 °C (68 °F) ~~must~~~~20° C (68° F)~~ ~~shall~~ be the basis for assessment of equivalent emissions from any equivalent alternative control plan. If used as an equivalent alternative control plan, an add-on control must demonstrate at least a 95%~~95 percent~~ overall capture and control efficiency. A control plan approved by the Agency ~~is~~~~shall be~~ effective only when included in a federally enforceable permit or approved by ~~the~~ USEPA as a SIP revision ~~under~~~~pursuant to~~ Section 218.108 ~~of this Part~~.

C) Add-on controls operating at a source ~~before~~~~prior to~~ May 30, 2007, ~~must~~~~shall~~ be tested by August 31, 2007. Add-on controls constructed on or after May 30, 2007, ~~must~~~~shall~~ be tested within

90 days after initial startup. Testing procedures and recordkeeping for add-on controls and equivalent alternative controls subject to subsections (c)(4)(A) and (B) ~~must of this Section are to~~ be performed ~~underpursuant to~~ Section 218.105(c), (d), (e), and (f) ~~of this Part.~~

- d) Recordkeeping and Reporting Requirements. On and after March 15, 1999:
- 1) All persons subject to ~~the requirements of~~ subsections (c)(1)(A), (c)(2)(A), and (c)(3)(A) ~~of this Section~~ must maintain records which include for each sale:
 - A) The name and address of the solvent purchaser;
 - B) The date of sale;
 - C) The type of solvent;
 - D) The unit volume of solvent;
 - E) The total volume of solvent; and
 - F) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F) ~~20° C (68° F).~~
 - 2) All persons subject to ~~the requirements of~~ subsections (c)(1)(B), (c)(2)(B), and (c)(3)(B) ~~of this Section~~ must maintain records which include for each purchase:
 - A) The name and address of the solvent supplier;
 - B) The date of purchase;
 - C) The type of solvent;
 - D) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F) ~~20° C (68° F)~~; and
 - E) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20 °C (68 °F) ~~20° C (68° F).~~
 - 3) All persons subject to ~~the requirements of~~ subsection (c)(4) ~~must of this Section shall~~ maintain records, which include for each purchase:

- A) The name and address of the solvent supplier;
 - B) The date of purchase;
 - C) The type of solvent;
 - D) The unit volume of solvent;
 - E) The total volume of solvent;
 - F) The vapor pressure of the solvent measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~; and
 - G) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20 °C (68 °F)~~20° C (68° F)~~.
- 4) All persons subject to ~~the requirements of~~ subsection (c)(4) ~~must of this Section shall~~ maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cold cleaning degreasers and add-on control equipment. At a minimum, these records ~~must shall~~ include:
 - A) Records for periodic inspection of the cold cleaning degreasers and add-on control equipment with date of inspection, individual performing the inspection, and nature of inspection;
 - B) Records for ~~repairing~~~~repair of~~ malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM that escaped into the atmosphere ~~because as a result~~ of the incident;
 - C) Control device monitoring and recording data; and
 - D) A daily log of operating time for the control device, monitoring equipment, and all associated degreasers.
- 5) All persons subject to ~~the requirements of~~ subsection (c) ~~must of this Section shall~~ notify the Agency at least 30 days before changing the method of compliance between subsection (c)(3) and (c)(4) ~~of this Section~~. ~~The~~~~Such~~ notification ~~must shall~~ include a demonstration of compliance with the newly applicable subsection.

- 2844 6) All persons subject to ~~the requirements of~~ subsection (b) or (c) ~~must of this~~
 2845 ~~Section shall~~ notify the Agency of any violation of subsection (b) or (c) ~~of~~
 2846 ~~this Section~~ by sending a description of the violation and copies of records
 2847 documenting ~~thesueh~~ violations to the Agency within 30 days
 2848 ~~after following~~ the ~~violation occurs~~~~occurrence of the violation~~.
 2849
- 2850 e) All records required by subsection (d) ~~must of this Section shall~~ be retained for
 2851 three years and ~~must shall~~ be made available to the Agency upon request.
 2852
- 2853 f) The cleaning of electronic components as defined in 35 Ill. Adm. Code ~~Section~~
 2854 211.1885 is exempt from the requirements of subsection (c) ~~of this Section~~.
 2855
- 2856 g) Any cold cleaning taking place in a Detrex cold batch degreaser Model #2D-CC-
 2857 SPL Size 24-4-10, or substantial equivalent, including automated loading of parts
 2858 ~~and~~, totally enclosed operation (excluding loading or unloading) and permitted by
 2859 the Agency, is exempt from the requirements of subsection (c) ~~of this Section~~.
 2860

2861 (Source: Amended at 50 Ill. Reg. _____, effective _____)
 2862

2863 **Section 218.183 Open Top Vapor Degreasing**

- 2864
- 2865 a) Operating Requirements: ~~A~~No person ~~must not shall~~ operate an open top vapor
 2866 degreaser unless:
 2867
- 2868 1) The cover of the degreaser is closed when workloads are not being
 2869 processed through the degreaser;
 2870
- 2871 2) Solvent carry out emissions are minimized by:
 2872
- 2873 A) Racking parts to allow complete drainage;
 2874
- 2875 B) Moving parts in and out of the degreaser at less than 3.3 m/min (11
 2876 ft/min);
 2877
- 2878 C) Holding the parts in the vapor zone until condensation ceases;
 2879
- 2880 D) Tipping out any pools of solvent on the cleaned parts before
 2881 removal from the vapor zone; and
 2882
- 2883 E) Allowing parts to dry within the degreaser until visually dry;
 2884
- 2885 3) Porous or absorbent materials, such as cloth, leather, wood₂ or rope₅ are
 2886 not degreased;

- 4) Less than half of the degreaser's open top area is occupied with a workload;
 - 5) The degreaser is ~~not~~ loaded ~~so that to the point where~~ the vapor level will not drop more than 10 cm (4 in.) when the workload is removed from the vapor zone;
 - 6) Spraying is done below the vapor level only;
 - 7) Solvent leaks are repaired immediately;
 - 8) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to ~~in such a manner that more than~~ 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 9) Water is not visually detectable in solvent exiting from the water separator; and
 - 10) Exhaust ventilation does not exceed ~~exceeding~~ 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of degreaser open area ~~is not used~~, unless necessary to meet the requirements of the Occupational Safety and Health Act (OSHA) [(29 U.S.C. ~~Section~~ 651 et seq.)].
- b) Equipment Requirements: ~~A~~ No person must not ~~shall~~ operate an open top vapor degreaser unless:
- 1) The degreaser is equipped with a cover designed to open and close easily without disturbing the vapor zone;
 - 2) The degreaser is equipped with the following switches:
 - A) One which shuts off the sump heat if the amount of condenser coolant is not sufficient to maintain the designed vapor level; ~~and~~
 - B) One which shuts off the spray pump if the vapor level drops more than 10 cm (4 in.) below the bottom condenser coil; and
 - C) One which shuts off the sump heat source when the vapor level exceeds the design level;
 - 3) A permanent conspicuous label summarizing the operating procedure is

affixed to the degreaser;

4) The degreaser is equipped with one of the following devices:

- A) A freeboard height of $\frac{3}{4}$ of the inside width of the degreaser tank or 91 cm (36 in.), whichever is less; and if the degreaser opening is greater than 1 square meter (10.8 square feet), a powered or mechanically assisted cover; or
- B) Any other equipment or system of equivalent emission control ~~as~~ approved by the Agency and ~~further~~ processed ~~under~~ inconsistent with Section 218.108 ~~of this Part. The~~ Such equipment or system may include a refrigerated chiller, an enclosed design, or a carbon adsorption system.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.184 Conveyorized Degreasing

- a) Operating Requirements: ~~A~~ No person must not ~~shall~~ operate a conveyorized degreaser unless:
 - 1) Exhaust ventilation exceeding 20 cubic meters per minute per square meter (65 cubic feet per minute per square foot) of area of loading and unloading opening is not used, unless necessary to meet the requirements of OSHA [the Occupational Safety and Health Act (29 U.S.C. Section 651 et seq.)];
 - 2) Solvent carryout emissions are minimized by:
 - A) Racking parts for best drainage; and
 - B) Maintaining the vertical conveyor speed at less than 3.3 m/min (11 ft/min);
 - 3) Waste solvent is stored in covered containers only and ~~not~~ disposed of so that only up to in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;
 - 4) Solvent leaks are repaired immediately;
 - 5) Water is not visually detectable in solvent exiting from the water separator; and

- 6) Downtime covers are placed over entrances and exits of conveyORIZED degreasers immediately after the conveyors and exhausts are shut down and not removed until just before start-up.

b) Equipment Requirements: ~~Any~~ person ~~must not~~ shall operate a conveyORIZED degreaser unless:

- 1) The degreaser is equipped with a drying tunnel, rotating (tumbling) basket, or other equipment sufficient to prevent cleaned parts from carrying out solvent liquid or vapor;
- 2) The degreaser is equipped with the following switches:
 - A) One which shuts off the sump heat source if the amount of condenser coolant is not sufficient to maintain the designed vapor level;
 - B) One which shuts off the spray pump or the conveyor if the vapor level drops more than 10 cm (4 in.) below the bottom condenser coil; and
 - C) One which shuts off the sump heat source when the vapor level exceeds the design level.
- 3) The degreaser is equipped with openings for entrances and exits that silhouette workloads so that the average clearance between the parts and the edge of the degreaser opening is less than 10 cm (4 in.) or less than ~~10%~~ ~~10 percent~~ of the width of the opening;
- 4) The degreaser is equipped with downtime covers for closing off entrances and exits when the degreaser is shut down; and
- 5) The degreaser is equipped with one of the following control devices, if the air/vapor interface is larger than 2.0 square meters (21.6 square feet):
 - A) A carbon adsorption system with ventilation ~~of at least~~ ~~greater than~~ ~~or equal to~~ 15 cubic meters per minute per square meter (50 cubic feet per minute per square foot) of air/vapor area when downtime covers are open, and exhausting less than 25 ppm of solvent by volume averaged over a complete adsorption cycle; or
 - B) Any other equipment or system of equivalent emission control ~~as~~

approved by the Agency, and ~~further~~ processed ~~under~~consistent with Section 218.108 ~~of this Part~~. ~~The~~Such equipment or system may include a refrigerated chiller.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.186 Test Methods

The following test methods ~~must~~shall be used to demonstrate compliance with this Subpart:

- a) Vapor pressures ~~must~~shall be determined ~~by~~ using the procedure ~~specified~~ in Section 218.110 ~~of this Part~~.
- b) Exhaust ventilation rates ~~must~~shall be determined ~~by~~ using the procedures ~~specified~~ in Section 218.105(f)(3) ~~of this Part~~.
- c) The performance of control devices ~~must~~shall be determined ~~by~~ using the procedures ~~specified~~ in Section 218.105(f) ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.187 Other Industrial Solvent Cleaning Operations

- a) Applicability. On and after January 1, 2012:
 - 1) Except ~~under~~as ~~provided in~~ subsection (a)(2) ~~of this Section~~, the requirements of this Section ~~shall~~ apply to all cleaning operations that use organic materials at sources that emit a total of 226.8 kg per calendar month (500 lbs per calendar month) or more of VOM, ~~without in the absence of~~ air pollution control equipment, from cleaning operations at the source other than cleaning operations identified in subsection (a)(2) ~~of this Section~~. For ~~purposes of~~ this Section, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including ~~but not limited to~~ spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning, at sources with emission units;
 - 2) ~~Despite~~Notwithstanding subsection (a)(1) ~~of this Section~~:

- A) The following cleaning operations ~~are~~shall be exempt from ~~the requirements of~~ subsections (b), (c), (d), (e), (f), and (g) ~~of this Section~~:
- i) Cleaning operations subject to ~~the limitations in~~ Sections 218.182, 218.183, or 218.184;
 - ii) Janitorial cleaning;
 - iii) Stripping of cured coatings, inks, or adhesives; and
 - iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning.
- B) Cleaning operations for emission units within the following categories ~~are~~shall be exempt from ~~the requirements of~~ subsections (b), (c), (d), (e), (f), and (g) ~~of this Section~~:
- i) Flexible package printing;
 - ii) Lithographic printing;
 - iii) Letterpress printing;
 - iv) Flat wood paneling coating;
 - v) Large appliance coating;
 - vi) Metal furniture coating;
 - vii) Paper, film, and foil coating;
 - viii) Wood furniture coating;
 - ix) Plastic parts coating;
 - x) Miscellaneous metal parts coating;
 - xi) Fiberglass boat manufacturing;
 - xii) Miscellaneous industrial adhesives; and

xiii) Auto and light-duty truck assembly coating;

C) The following cleaning operations ~~are~~shall be exempt from ~~the requirements of~~ subsections (b), (c), (f), and (g) ~~of this Section~~:

- i) Cleaning of solar cells, laser hardware, scientific instruments, and high-precision optics;
- ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;
- iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal ~~using by means of~~ an adhesive;
- iv) Cleaning of cotton swabs to remove cottonseed oil before cleaning of high-precision optics;
- v) Cleaning of medical device and pharmaceutical manufacturing operations if the facility uses no more than 5.7 ~~liters~~ (1.5 ~~gal~~gallons) per day of solvents for ~~that such~~ cleaning;
- vi) Cleaning of adhesive application equipment used for thin metal laminating;
- vii) Cleaning of electronic or electrical cables;
- viii) Touch-up cleaning performed on printed circuit boards where surface mounted devices have already been attached;
- ix) Cleaning of coating and adhesive application processes ~~used~~utilized to manufacture transdermal drug delivery products using no more than ~~3 gal~~three gallons per day of ethyl acetate;
- x) Cleaning of application equipment used to apply coatings on satellites and radiation effect coatings;
- xi) Cleaning of application equipment used to apply solvent-borne fluoropolymer coatings;

- xii) Cleaning of ultraviolet or electron beam adhesive application;
- xiii) Cleaning of sterilization indicating ink application equipment if the facility uses no more than 5.7 ~~liters~~ (1.5 ~~gal~~ gallons) per day of solvents for ~~that~~ such cleaning;
- xiv) Cleaning of metering rollers, dampening rollers, and printing plates;
- xv) Cleaning of numismatic dies;
- xvi) Cleaning operations associated with digital printing;
- xvii) Cleaning with aerosol products if the facility uses only up to no more than 4.7 ~~liters~~ (1.25 ~~gal~~ gallons) per day of ~~those~~ such products;
- xviii) Cleaning of plastic-based or vinyl-based substrates for use in the screen printing process when using UV curable ink and coating systems;
- xix) Cleaning conducted as part of performance tests on coatings, adhesives, or inks that are in research and development and that are not yet commercially used for the applications for which they are being tested. This exemption is limited to ~~using the use of~~ up to a total of 90.9 ~~liters~~ (24 ~~gal~~ gallons) of cleaning solvent per calendar month and 416.3 ~~liters~~ (110 ~~gal~~ gallons) per calendar year for such cleaning.

b) Material and Control Requirements. ~~An~~No owner or operator of a source subject to this Section, other than manufacturers of coatings, inks, adhesives, or resins, ~~must not~~ shall perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in subsection (b)(1), (b)(2), or (b)(3). ~~An~~No owner or operator of a source that manufactures coatings, inks, adhesives, or resins ~~must not~~ shall perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in at least one of the following subsections: (b)(1), (b)(2), (b)(3), (b)(4), or (b)(5).

- 1) The VOM content of the as-used cleaning solutions does not exceed the following emissions limitations:

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3187
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A) Product cleaning during manufacturing process
or surface preparation for coating, adhesive, or
ink application:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing	0.80	6.7

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B) Repair and maintenance cleaning:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic components	0.10	0.83
ii)	Medical device and pharmaceutical manufacturing; tools, equipment, and machinery	0.80	6.7
iii)	Medical device and pharmaceutical manufacturing; general work surfaces	0.60	5.0

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3196

C) Cleaning of ink application equipment:

		kg/l	lb/gal
i)	Rotogravure printing that does not print flexible packaging	0.10	0.83
ii)	Screen printing, including screen reclamation activities	0.50	4.2
iii)	Ultraviolet ink and electron beam ink application equipment, except screen printing	0.65	5.4
iv)	Flexographic printing that does not print flexible packaging	0.10	0.83

3197

3198			kg/l	lb/gal
3199	D)	Cleaning of equipment used in the	0.20	1.67
3200		manufacture of coatings, inks,		
3201		adhesives, or resins		
3202				
3203			kg/ ~~14~~	lb/gal
3204	E)	All other cleaning operations not	0.050	0.42
3205		subject to a specific limitation in		
3206		subsections (b)(1)(A) through		
3207		(b)(1)(D) ~~of this Section~~		
3208				
3209	2)	The VOM composite vapor pressure of each as-used cleaning solution		
3210		used does not exceed 8.0 mmHg measured at ~~20 °C (68 °F)~~ <u>20°C (68°F)</u> ;		
3211				
3212	3)	An afterburner or carbon adsorber is installed and operated that reduces		
3213		VOM emissions from the subject cleaning operation by at least ~~85%~~ <u>85%</u>		
3214		~~percent~~ overall, or for sources that manufacture coatings, inks, adhesives,		
3215		or resins, an afterburner or carbon adsorber is installed and operated that		
3216		reduces VOM emissions from the subject cleaning operation by at least		
3217		~~80%~~ <u>80%</u> ~~percent~~ overall and has a ~~90%~~ <u>90%</u> ~~percent~~ efficiency. The owner or		
3218		operator may use an emissions control system other than an afterburner or		
3219		carbon adsorber if ~~thesuch~~ device reduces VOM emissions from the		
3220		subject cleaning operation in accordance with the applicable capture and		
3221		control requirements of this subsection (b)(3), the owner or operator		
3222		submits a plan to the Agency detailing appropriate monitoring devices,		
3223		test methods, recordkeeping requirements, and operating parameters for		
3224		~~thesuch~~ control device, and ~~thesuch~~ plan is approved by the Agency and		
3225		USEPA within federally enforceable permit conditions;		
3226				
3227	4)	For sources that manufacture coatings, inks, adhesives, or resins, the		
3228		owner or operator complies with the following work practices:		
3229				
3230	A)	Equipment being cleaned is maintained leak-free;		
3231				
3232	B)	VOM-containing cleaning materials are drained from the cleaned		
3233		equipment upon ~~completing~~ <u>completion of</u> cleaning;		
3234				
3235	C)	VOM-containing cleaning materials, including waste solvent, are		
3236		~~not~~ stored or disposed of <u>so that they will not in such a manner that</u>		
3237		~~will~~ cause or allow evaporation into the atmosphere; and		
3238				
3239	D)	VOM-containing cleaning materials are stored in closed		
3240		containers;		

- 5) Sources that manufacture coatings, inks, adhesives, or resins may ~~use~~utilize solvents that do not comply with subsection (b)(1) or (b)(2) ~~if of~~
~~this Section provided that~~ all ~~of~~ the following requirements are met:
- A) ~~Only up to~~No more than 228 l (60 gal) of fresh solvent is used per calendar month. Solvent that is reused or recycled, either onsite or offsite, for further use in equipment cleaning or in the manufacture of coatings, inks, adhesives, or resins, ~~must~~shall not be included in this limit;
 - B) Solvents, including cleanup solvents, are collected and stored in closed containers; and
 - C) Records are maintained in ~~compliance~~accordance with subsection (e)(6).
- c) The owner or operator of a subject source ~~must~~shall demonstrate compliance with this Section by using the applicable test methods and procedures ~~specified~~ in subsection (g) ~~of this Section~~ and by complying with the recordkeeping and reporting requirements ~~specified~~ in subsection (e) ~~of this Section~~.
- d) Operating Requirements. The owner or operator of a source subject to ~~the requirements of~~ this Section ~~must~~shall comply with the following for each subject cleaning operation. ~~These~~Such requirements are in addition to work practices ~~set forth~~ in subsections (b)(4) and (b)(5) ~~of this Section~~, as applicable:
- 1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;
 - 2) Minimize air circulation around the cleaning operation;
 - 3) Dispose of all used cleaning solutions, cleaning towels, and applicators used to apply cleaning solvents in closed containers;
 - 4) ~~Use~~Utilize equipment practices that minimize emissions;
 - 5) When using cleaning solvent for wipe cleaning, sources that manufacture coatings, inks, adhesives, or resins ~~must~~shall:
- A) Cover open containers used ~~to store for the storage of~~ spent or fresh organic compounds used for cleanup or coating, ink, adhesive, or resin removal; and

- B) Cover open containers used ~~to store or dispose~~~~for the storage or disposal~~ of cloth or paper impregnated with organic compounds that are used for cleanup or coating, ink, adhesive, or resin removal.

e) Recordkeeping and Reporting Requirements

- 1) The owner or operator of a source exempt from ~~the limitations of~~ this Section because of the criteria in subsection (a)(1) ~~must of this Section shall~~ comply with the following:
- A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
- i) A declaration that the source is exempt from ~~the requirements of~~ this Section because of the criteria in subsection (a)(1); and
- ii) Calculations that demonstrate that combined emissions of VOM from cleaning operations at the source, other than cleaning operations ~~identified~~ in subsection (a)(2) ~~of this Section~~, never equal or exceed 226.8 kg/month (500 lbs/month) ~~without, in the absence of~~ air pollution control equipment. An emission adjustment factor of 0.50 ~~must shall~~ be used ~~to calculate in calculating~~ emissions from used shop towels if the VOM composite vapor pressure of each associated cleaning solution is demonstrated to be less than 10 mmHg at 20 °C (68 °F)~~20°C (68°F)~~ and the used shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of at least equal to or greater than 10 mmHG measured at 20 °C (68 °F)~~20°C (68°F)~~ and for shop towels that are not kept in closed containers, ~~an~~no emission adjustment factor must not shall be used.;
- B) On and after January 1, 2012, collect and record the following information each month for each cleaning operation, other than cleaning operations ~~identified~~ in subsection (a)(2) ~~of this Section~~:
- i) The name and identification of each VOM-containing cleaning solution as applied in each cleaning operation;

- ii) The VOM content of each cleaning solution as applied in each cleaning operation;
 - iii) The weight of VOM per volume and the volume of each as-used cleaning solution; and
 - iv) The total monthly VOM emissions from cleaning operations at the source.
- C) Notify the Agency of any record that shows when that the combined emissions of VOM from cleaning operations at the source, other than cleaning operations ~~identified~~ in subsection (a)(2) ~~of this Section, ever~~ equal or exceed 226.8 kg/month (500 lbs/month) ~~without, in the absence of~~ air pollution control equipment, within 30 days after the event occurs.
- 2) All sources subject to ~~the requirements of~~ this Section must ~~shall~~:
- A) By January 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - i) A declaration that all subject cleaning operations are in compliance with the requirements of this Section;
 - ii) Identification of each subject cleaning operation and each VOM-containing cleaning solution used as of the date of certification in the ~~such~~ operation;
 - iii) If complying with the emissions control system requirement, what type of emissions control system will be used;
 - iv) Initial documentation that each subject cleaning operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - v) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;

- 3370 vi) A description of the practices and procedures that the
 3371 source will follow to ensure compliance with ~~the~~
 3372 ~~limitations in~~ subsection (d); and, if applicable, subsection
 3373 (b)(4); and
 3374
 3375 vii) A description of each cleaning operation exempt
 3376 ~~underpursuant to~~ subsection (a)(2), if any, and a listing of
 3377 the emission units on which the exempt cleaning operation
 3378 is performed.~~;~~
 3379
 3380 B) At least 30 calendar days before changing the method of
 3381 compliance between subsections (b)(1), (b)(2), (b)(4), or (b)(5) and
 3382 subsection (b)(3) ~~of this Section~~, notify the Agency in writing of
 3383 ~~thesuch~~ change. The notification ~~must~~~~shall~~ include a
 3384 demonstration of compliance with the newly applicable subsection;
 3385
 3386 3) All sources complying with this Section ~~underpursuant to the requirements~~
 3387 ~~of~~ subsection (b)(1) ~~must of this Section shall~~ collect and record the
 3388 following information for each cleaning solution used:
 3389
 3390 A) For each cleaning solution that is prepared at the source with
 3391 automatic equipment:
 3392
 3393 i) The name and identification of each cleaning solution;
 3394
 3395 ii) The VOM content of each cleaning solvent in the cleaning
 3396 solution;
 3397
 3398 iii) Each change to the setting of the automatic equipment, with
 3399 date, time, description of changes in the cleaning solution
 3400 constituents (e.g., cleaning solvents), and a description of
 3401 changes to the proportion of cleaning solvent and water (or
 3402 other non-VOM);
 3403
 3404 iv) The proportion of each cleaning solvent and water (or other
 3405 non-VOM) used to prepare the as-used cleaning solution;
 3406
 3407 v) The VOM content of the as-used cleaning solution, with
 3408 supporting calculations; and
 3409
 3410 vi) A calibration log for the automatic equipment, detailing
 3411 periodic checks.~~;~~
 3412

- B) For each batch of cleaning solution that is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date, time of preparation, and each subsequent modification of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~complianceaceordance~~ with methods ~~specified~~ in Section 218.105(a) ~~of this Part;~~
- 4) All sources complying with this Section ~~underpursuant to the requirements of subsection (b)(2) must of this Section shall~~ collect and record the following information for each cleaning solution used:
- A) The name and identification of each cleaning solution;
 - B) Date, time of preparation, and each subsequent modification of the batch;
 - C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in ~~complianceaceordance~~ with the applicable methods and procedures ~~specified~~ in Section 218.110 ~~of this Part;~~
 - D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in ~~complianceaceordance~~ with the

applicable methods and procedures ~~specified~~ in Section 218.110.
~~of this Part;~~

5) All sources complying with this Section ~~underpursuant to the requirements~~
~~of~~ subsection (b)(3) ~~mustof this Section shall~~ comply with the following:

A) By January 1, 2012, or upon initial start-up of the source,
whichever is later, and upon initial start-up of a new emissions
control system, include in the certification required by subsection
(e)(3) ~~of this Section~~ a declaration that the monitoring equipment
required under subsection (f) ~~of this Section~~ has been properly
installed and calibrated according to manufacturer's specifications.

B) If testing of an emissions control system is conducted
~~underpursuant to~~ subsection (g) ~~of this Section~~, the owner or
operator ~~mustshall~~, within 90 days after conducting ~~thesueh~~
testing, submit a copy of all test results to the Agency and
~~mustshall~~ submit a certification to the Agency that includes ~~the~~
~~following~~:

i) A declaration that all tests and calculations necessary to
demonstrate compliance with subsection (b)(3) ~~of this~~
~~Section~~ have been properly performed;

ii) A statement whether the subject cleaning operation is or is
not in compliance with subsection (b)(3) ~~of this Section~~;
and

iii) The operating parameters of the emissions control system
during testing, as monitored in ~~complianceaceordance~~ with
subsection (f) ~~of this Section~~;

C) Collect and record daily the following information for each
cleaning operation subject to ~~the requirements of~~ subsection (b)(3)
~~of this Section~~:

i) Emissions control system monitoring data in
~~complianceaceordance~~ with subsection (f) ~~of this Section~~,
as applicable;

ii) A log of operating time for the emissions control system,
monitoring equipment, and the associated cleaning
equipment; ~~and~~

- iii) A maintenance log for the emissions control system and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records ~~must~~shall include:
- i) Records for periodic inspection of the cleaning equipment and emissions control system equipment with date of inspection, individual performing the inspection, and nature of inspection; and
- ii) Records for repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM released into the atmosphere ~~because as a result~~ of the incident;
- 6) All sources complying with this Section ~~under~~pursuant to the requirements of subsection (b)(5) ~~must of this Section shall~~ collect and record monthly the following information for each cleaning operation subject to ~~the requirements of~~ subsection (b)(5) ~~of this Section~~:
- A) The name, identification, and volume of each VOM-containing cleaning solution as applied in each cleaning operation;
- B) The volume of each fresh cleaning solvent used for cleaning coating, ink, adhesive, or resin manufacturing equipment; and
- C) The volume of cleaning solvent recovered for either offsite or onsite reuse or recycling for further use in the cleaning of coating, ink, adhesive, or resin manufacturing equipment.
- 7) The owner or operator of a source with cleaning operations that fall under one or more of the exclusions ~~set forth~~ in subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii), including sources exempt from ~~the limitations of~~ this Section ~~under because of the criteria in~~ subsection (a)(1), mustshall:

- 3542 A) By January 1, 2012, or upon initial start-up of the source,
 3543 whichever is later, submit a certification to the Agency that
 3544 includes a declaration that the source has cleaning operations that
 3545 fall under at least one ~~or more~~ of the exclusions ~~set forth~~ in
 3546 subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii), and a
 3547 statement identifying each ~~such~~ cleaning operation and the
 3548 exclusion applicable to each cleaning operation;
 3549
- 3550 B) Collect and record the name, identification, and volume of each
 3551 cleaning solvent as applied each day in each cleaning operation
 3552 that falls under at least one ~~or more~~ of the exclusions ~~set forth~~ in
 3553 subsection (a)(2)(C)(v), (a)(2)(C)(xiii), or (a)(2)(C)(xvii); and
 3554
- 3555 C) Notify the Agency in writing if the amount of cleaning solvent
 3556 used in the cleaning of medical device and pharmaceutical
 3557 manufacturing operations or of sterilization indicating ink
 3558 application equipment at the source ever exceeds 5.7 ~~liters~~ (1.5
 3559 ~~galgallons~~) per day, or if the amount of aerosol cleaning products
 3560 used at the source ever exceeds 4.7 ~~liters~~ (1.25 ~~galgallons~~) per
 3561 day, within 30 days after the exceedance occurs.;
- 3562
- 3563 8) The owner or operator of a source with cleaning operations that fall under
 3564 at least one ~~or more~~ of the exclusions ~~set forth~~ in subsection
 3565 (a)(2)(C)(xviii) or (a)(2)(C)(xix), including sources exempt from ~~the~~
 3566 ~~limitations of~~ this Section ~~under because of the criteria in~~ subsection (a)(1),
 3567 must shall:
 3568
- 3569 A) By January 1, 2012, or upon initial start-up of the source,
 3570 whichever is later, submit a certification to the Agency that
 3571 includes a declaration that the source has cleaning operations that
 3572 fall under at least one ~~or more~~ of the exclusions ~~set forth~~ in
 3573 subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix), and a statement
 3574 identifying each ~~such~~ cleaning operation and the exclusion
 3575 applicable to each cleaning operation;
 3576
- 3577 B) Collect and record the name, identification, volume, and VOM
 3578 content of each cleaning solvent as applied each month in each
 3579 cleaning operation that falls under at least one ~~or more~~ of the
 3580 exclusions ~~set forth~~ in subsection (a)(2)(C)(xviii) or (a)(2)(C)(xix);
 3581
- 3582 C) For cleaning operations that fall under the exclusion ~~set forth~~ in
 3583 subsection (a)(2)(C)(xviii), collect and record each month
 3584 information demonstrating that the exempt cleaning solvent is

being used ~~only to clean~~exclusively for the cleaning of plastic-based or vinyl-based substrates ~~used for use~~ in the screen printing process when using UV curable ink and coating systems; and

D) For cleaning operations that fall under the exclusion ~~set forth~~ in subsection (a)(2)(C)(xix), collect and record each month information demonstrating that the exempt cleaning solvent is being used ~~only~~exclusively for production line performance testing of coatings that are in research and development and are not yet commercially used for the applications for which they are being tested.

9) All sources subject to ~~the requirements of~~ subsections (b) and (d) ~~must of this Section shall~~ notify the Agency of any violation of subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the violation occurs~~occurrence of the violation;

10) All records required by this subsection (e) ~~must shall~~ be retained by the source for at least three years and ~~must shall~~ be made available to the Agency upon request.

f) Monitoring Requirements

1) If an afterburner is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must of this Section shall~~:

A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of ~~3 °C~~3°C or ~~5 °F~~5°F on the emissions control system in ~~compliance~~accordance with Section 218.105(d)(2) ~~of this Part~~ and in ~~compliance~~accordance with the manufacturer's specifications. Monitoring ~~must shall~~ be performed at all times when the emissions control system is operating; and

B) Install, calibrate, operate, and maintain, in ~~compliance~~accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

2) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must shall~~ use Agency and USEPA approved continuous monitoring equipment that is installed,

calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment ~~must~~shall monitor the VOM concentration of each carbon adsorption bed or the exhaust of the bed next in sequence to be desorbed.

- 3) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to subsection (b)(3) ~~must of this Section shall~~ install, maintain, calibrate, and operate ~~thesueh~~ monitoring equipment ~~underas set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~underpursuant to~~ subsection (b)(3).

g) Testing Requirements

- 1) Testing to demonstrate compliance with ~~the requirements of~~ this Section ~~must~~shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. ~~TheSuch~~ testing ~~must~~shall be conducted at the expense of the owner or operator, and the owner or operator ~~must~~shall notify the Agency in writing 30 days ~~before in advance of~~ conducting the testing to allow the Agency to be present during the testing;
- 2) Testing to demonstrate compliance with the VOM content limitations in subsection (b)(1) ~~of this Section~~, and to determine the VOM content of cleaning solvents and cleaning solutions ~~must, shall~~ be conducted as follows:
 - A) The applicable test methods and procedures ~~specified~~ in Section 218.105(a) ~~must of this Part shall~~ be used, ~~provided~~; however, Method 24, incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~shall be used to demonstrate compliance; or
 - B) The manufacturer's specifications for VOM content for cleaning solvents may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance accordance~~ with methods ~~specified~~ in Section 218.105(a) of this Part; ~~provided~~, however, Method 24 ~~must~~shall be used to determine compliance. ~~If there is~~~~In the event of~~ any inconsistency between a Method 24 test and the manufacturer's specifications, the Method 24 test ~~must~~shall govern;
- 3) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning

solutions ~~must~~ be conducted in ~~compliance~~ ~~accordance~~ with the applicable methods and procedures ~~specified~~ in Section 218.110 ~~of this Part~~;

- 4) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) ~~must~~ be used for testing to demonstrate compliance with ~~the requirements of~~ subsection (b)(3) ~~of this Section~~, as follows:
 - A) To select the sampling sites, Method 1 or 1A, as appropriate, at 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, at 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - C) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, at 40 CFR ~~60.Appendix A-760, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - i) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;
 - ii) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; ~~or~~ and
 - iii) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but

the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25.

D) During testing, the cleaning equipment ~~must~~shall be operated at representative operating conditions and flow rates;

5) An owner or operator using an emissions control system other than an afterburner or carbon adsorber ~~must~~shall conduct testing to demonstrate compliance with ~~the requirements of~~ subsection (b)(3) ~~under of this Section as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions ~~under pursuant to~~ subsection (b)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART F: COATING OPERATIONS

Section 218.204 Emission Limitations

Except ~~under as provided in~~ Sections 218.205, 218.207, 218.208, 218.212, 218.215, and 218.216 ~~of this Subpart, an~~ owner or operator of a coating line ~~must not~~shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in subsections (a), (c), (g), (h), ~~(j)~~, (l), ~~(n)~~, (p), and (q) ~~of this Section~~, compliance with the emission limitations ~~marked with an asterisk~~ in this Section is required on and after March 15, 1996, ~~and compliance with emission limitations not marked with an asterisk is required until March 15, 1996~~. The following emission limitations are expressed in units of VOM per volume of coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water ~~to calculate for the purpose of calculating~~ the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures ~~specified~~ in Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(c) ~~of this Subpart~~ except where noted. (Note: The equation ~~presented~~ in Section 218.206 ~~must of this Part shall~~ be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades, and cross-line averaging.) ~~The emission limitations are as follows:~~

a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal

1) ~~Prior to May 1, 2012:~~

A)	Prime coat	0.14	(1.2)
		0.14*	(1.2)*
B)	Primer surface coat	1.81	(15.1)
		1.81*	(15.1)*

~~BOARD NOTE: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.~~

C)	Topcoat	kg/l	lb/gal
		1.81	(15.1)
		1.81*	(15.1)*

~~BOARD NOTE: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topcoat limitation.~~

D)	Final repair coat	kg/l	lb/gal
		0.58	(4.8)
		0.58*	(4.8)*

~~2) On and after May 1, 2012, subject automobile and light duty truck coating lines shall comply with the following limitations. These limitations must shall not~~

apply to materials supplied in containers with a net volume of 0.47 ~~liters~~ (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less:

1A) Electrodeposition primer (EDP) operations. For ~~purposes of~~ this subsection ~~(a)(1)(a)(2)(A)~~, "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.

		kg VOM/ coating solids applied	lb VOM/gal coating solids applied
<u>Ai)</u>	When solids turnover ratio (R_T) is ~~at least~~ ~~greater than or equal to~~ 0.160	0.084	(0.7)
<u>Bi)</u>	When R_T is ~~at least~~ ~~greater than or equal to~~ 0.040 and less than 0.160	$0.084 \times 350^{0.160-R_T}$	$(0.084 \times 350^{0.160-R_T} \times 8.34)$
<u>2B)</u>	Primer surfacer operations	kg VOM/ coating solids deposited	lb VOM/gal coating solids deposited
<u>Ai)</u>	VOM content limitation	1.44	(12.0)
<u>Bi)</u>	Compliance with the limitation ~~set forth~~ in subsection ~~(a)(2)(A) must~~ ~~(a)(2)(B)(i) shall~~ be based on the daily-weighted average from an entire primer surfacer operation. Compliance ~~must~~ ~~shall~~ be demonstrated in ~~compliance~~ ~~accordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~must~~ ~~shall~~ be performed in ~~compliance~~ ~~accordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.		

~~3C~~	Topcoat operations	kg VOM/ coating solids deposited	lb VOM/gal coating solids deposited
~~Ai~~	VOM content limitation	1.44	(12.0)
~~Bi~~	Compliance with the limitation ~~set forth~~ in subsection ~~(a)(3)(A) must(a)(2)(C)(i) shall~~ be based on the daily-weighted average from an entire topcoat operation. Compliance ~~mustshall~~ be demonstrated in ~~complianceaccordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~mustshall~~ be performed in ~~complianceaccordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the topcoat limitation.		
~~4D~~	Combined primer surfacer and topcoat operations	kg VOM/ coating solids deposited	lb VOM/gal coating solids deposited
~~Ai~~	VOM content limitation	1.44	(12.0)
~~Bi~~	Compliance with the limitation ~~set forth~~ in subsection ~~(a)(4)(A) must(a)(2)(D)(i) shall~~ be based on the daily-weighted average from the combined primer surfacer and topcoat operations. Compliance ~~mustshall~~ be demonstrated in ~~complianceaccordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~mustshall~~ be performed in ~~complianceaccordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the combined primer surfacer and topcoat limitation.		
~~5E~~	Final repair coat operations	kg/l	lb/gal

coatings coatings

Ai) VOM content limitation 0.58 (4.8)

Bii) Compliance with the ~~final repair operations~~ limitation ~~set forth~~ in subsection ~~(a)(5)(A) must~~~~(a)(2)(E)(i) shall~~ be on an occurrence-weighted average basis, calculated in ~~compliance~~ with the equation below, in which clear coatings ~~must~~~~shall~~ have a weighting factor of 2 and all other coatings ~~must~~~~shall~~ have a weighting factor of 1. For ~~purposes of~~ this subsection ~~(a)(5)(B)(a)(2)(E)(ii)~~, an "occurrence" is the application of the combination of coatings that constitute a final repair coat for a single automobile or light-duty truck. Section 218.205 does not apply to the final repair coat limitation.

$$VOM_{tot} = \frac{2VOM_{cc} + \sum_{i=1}^n VOM_i}{n + 2}$$

where:

VOM_{tot} = Total VOM content of all coatings, as applied, on an occurrence weighted average basis, and used to determine compliance with this subsection ~~(a)(5)(a)(2)(E)~~.

i = Subscript denoting a specific coating applied.

n = Total number of coatings applied in the final repair operation, other than clear coatings.

VOM_{cc} = The VOM content, as applied, of the clear coat used in the final repair operation.

VOM_i = The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

6F) Miscellaneous Materials. For reactive adhesives subject to this subsection ~~(a)(6)(a)(2)(F)~~, compliance ~~must~~~~shall~~ be demonstrated in ~~compliance~~ with the methods and procedures ~~set forth~~ in

~~appendix A to Subpart PPPP of 40 CFR 63, Subpart PPPP, Appendix A,~~
 incorporated by reference in Section 218.112 ~~of this Part.~~

			kg/l	lb/gal
	~~Ai)~~	Glass bonding primer	0.90	(7.51)
	~~Bii)~~	Adhesive	0.25	(2.09)
	~~Ciii)~~	Cavity wax	0.65	(5.42)
	~~Div)~~	Trunk sealer	0.65	(5.42)
	~~Eiv)~~	Deadener	0.65	(5.42)
	~~Fvi)~~	Gasket/gasket sealing material	0.20	(1.67)
	~~Gvii)~~	Underbody coating	0.65	(5.42)
	~~Hviii)~~	Trunk interior coating	0.65	(5.42)
	~~Iix)~~	Bedliner	0.20	(1.67)
	~~Jx)~~	Weatherstrip adhesive	0.75	(6.26)
	~~Kxi)~~	Lubricating wax/compound	0.70	(5.84)

3806	b)	Can Coating	kg/l	lb/gal
	1)	Sheet basecoat and overvarnish		
		A) Sheet basecoat	~~0.34~~ 0.26*	~~(2.8)~~ (2.2)*
		B) Overvarnish	~~0.34~~ 0.34	~~(2.8)~~ (2.8)*
	2)	Exterior basecoat and overvarnish	~~0.34~~ 0.25*	~~(2.8)~~ (2.1)*
	3)	Interior body spray coat		
		A) Two piece	~~0.51~~	~~(4.2)~~

		0.44*	(3.7)*
	B) Three piece	~~0.51~~ 0.51*	~~(4.2)~~ (4.2)*
	4) Exterior end coat	~~0.51~~ 0.51*	~~(4.2)~~ (4.2)*
	5) Side seam spray coat	~~0.66~~ 0.66*	~~(5.5)~~ (5.5)*
	6) End sealing compound coat	~~0.44~~ 0.44*	~~(3.7)~~ (3.7)*
3807	c) Paper Coating		
	~~1)~~ Prior to May 1, 2011:	kg/l ~~0.28~~	lb/gal ~~(2.3)~~
	<u>12)</u> <u>The owner or operator must comply with either the limit in weight of VOM per weight of solids applied or weight of VOM per weights of coatings applied On and after May 1, 2011:</u>	kg VOM/kg (lb VOM/lb) solids applied	kg VOM/kg (lb VOM/lb) coatings applied
	A) Pressure sensitive tape and label surface coatings	0.20 <u>(0.20)</u>	(0.067) <u>(0.067)</u>
	B) All other paper coatings	0.40 <u>(0.40)</u>	(0.08) <u>(0.08)</u>
3808			
3809			
3810			
3811			
3812			
3813			
3814			
3815			
3816			
3817			
3818			
3819			
	<u>23)</u> The paper coating limitation ~~set forth~~ in this subsection (c) ~~does~~ <u>shall</u> not apply to any owner or operator of any paper coating line on which flexographic, rotogravure, lithographic, or letterpress printing is performed if the paper coating line complies with the applicable emissions limitations in Subpart H ~~of this Part~~ . In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT ~~of this Part~~ . <u>The On and after May 1, 2011, the</u> paper coating limitation ~~shall~~ also <u>does</u> not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.		

d)	Coil Coating	kg/l ~~0.31~~ 0.20*	lb/gal ~~(2.6)~~ (1.7)*
e)	Fabric Coating	~~0.35~~ 0.28*	~~(2.9)~~ (2.3)*
f)	Vinyl Coating	~~0.45~~ 0.28*	~~(3.8)~~ (2.3)*
g)	Metal Furniture Coating		
1)	~~Prior to May 1, 2011:~~		
	A) Air-dried	kg/l ~~0.34~~	lb/gal ~~(2.8)~~
	B) Baked	~~0.28~~	~~(2.3)~~
12)	<u>The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied</u> ~~On and after May 1, 2011:~~	kg/l (lb/gal) <u>(coatings applied)</u>	kg/l (lb/gal) solids applied
	A) General, One-Component	0.275 (2.3)	0.40 (3.3)
	B) General, Multi-Component		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.275 (2.3)	0.40 (3.3)
	C) Extreme High Gloss		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.360 (3.0)	0.61 (5.1)

D)	Extreme Performance		
i)	Air dried	0.420 (3.5)	0.80 (6.7)
ii)	Baked	0.360 (3.0)	0.61 (5.1)
E)	Heat Resistant		
i)	Air dried	0.420 (3.5)	0.80 (6.7)
ii)	Baked	0.360 (3.0)	0.61 (5.1)
F)	Metallic	0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		
i)	Air dried	0.420 (3.5)	0.80 (6.7)
ii)	Baked	0.360 (3.0)	0.61 (5.1)

23) ~~The On and after May 1, 2011, the~~ limitations ~~set forth~~ in this subsection (g) ~~do shall~~ not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications ~~using~~utilizing hand-held aerosol cans.

h)	Large Appliance Coating		
1)	~~Prior to May 1, 2011:~~	kg/l	lb/gal
A)	~~Air dried~~	0.34	(2.8)
B)	~~Baked~~	0.28	(2.3)
12)	<u>The owner or operator must comply with either the limit in weight of VOM per</u>	kg/l (lb/gal)	kg/l (lb/gal) <u>solids</u>

<u>volume of coatings applied or weight of VOM per volume of solids applied</u> <u>On and after May 1, 2011:</u>		<u>(coatings applied)</u>	<u>applied</u>
A)	General, One Component	0.275 (2.3)	0.40 (3.3)
B)	General, Multi-Component		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.275 (2.3)	0.40 (3.3)
C)	Extreme High Gloss		
	i) Air dried	0.340 (2.8)	0.55 (4.5)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
D)	Extreme Performance		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
E)	Heat Resistant		
	i) Air dried	0.420 (3.5)	0.80 (6.7)
	ii) Baked	0.360 (3.0)	0.61 (5.1)
F)	Metallic	0.420 (3.5)	0.80 (6.7)
G)	Pretreatment Coatings	0.420 (3.5)	0.80 (6.7)
H)	Solar Absorbent		
	i) Air dried	0.420	0.80

(3.5) (6.7)

ii) Baked 0.360 0.61
(3.0) (5.1)

23) The limitations ~~set forth~~ in this subsection (h) ~~do~~ shall not apply to the use of quick-drying lacquers ~~to for~~ repair ~~of~~ scratches and nicks that occur during assembly, ~~if provided that~~ the volume of coating does not exceed 0.95 ~~l~~ (1 quart) in any one rolling eight-hour period. ~~These~~ On and after May 1, 2011, these limitations ~~shall~~ also ~~do~~ not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications ~~using~~ utilizing hand-held aerosol cans.

i) Magnet Wire Coating kg/l lb/gal
~~0.20~~ ~~(1.7)~~
0.20* (1.7)*

j) ~~Prior to May 1, 2012:~~ Miscellaneous Metal Parts and Products Coating

1) ~~Clear coating~~ 0.52 (4.3)
0.52* (4.3)*

2) ~~Extreme performance coating~~

A) ~~Air dried~~ 0.42 (3.5)
0.42* (3.5)*

B) ~~Baked~~ 0.42 (3.5)
0.40* (3.3)*

3) ~~Steel pail and drum interior coating~~ 0.52 (4.3)
0.52* (4.3)*

4) ~~All other coatings~~

A) ~~Air dried~~ 0.42 (3.5)
0.40* (3.3)*

B) ~~Baked~~ 0.36 (3.0)
0.34* (2.8)*

5) ~~Marine engine coating~~

A)	Air-dried	0.42	(3.5)
		0.42*	(3.5)*
B)	Baked		
		i) Primer/Topcoat	0.42
			(3.5)
			0.42*
	ii) Corrosion-resistant basecoat	0.42	(3.5)
		0.28*	(2.3)*
C)	Clear-Coating	0.52	(4.3)
		0.52*	(4.3)*
6)	Metallie-Coating		
A)	Air-dried	0.42	(3.5)
		0.42*	(3.5)*
B)	Baked	0.36	(3.0)
		0.36	(3.0)*
7)	Definitions		
A)	For purposes of subsection (j)(5) of this Section, the following terms are defined:		
i)	"Corrosion-resistant basecoat" means, for purposes of subsection (j)(5)(B)(ii) of this Section, a water-borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance.		
ii)	"Electrodeposition process" means, for purposes of subsection (j)(5) of this Section, a water-borne dip-coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.		
iii)	"Marine engine coating" means, for purposes of subsection (j)(5) of this Section, any extreme performance protective, decorative or functional coating applied to an engine that is		

~~used to propel watercraft.~~

~~B) For purposes of subsection (j)(6) of this Section, "metallic coating" means a coating which contains more than ¼ lb/gal of metal particles, as applied.~~

~~BOARD NOTE:~~ On and after May 1, 2012, the limitations in Section 218.204(q) ~~shall~~ apply to this category of coating.

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
2)	Extreme performance topcoat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
3)	Final repair coat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection ~~(q)(i)~~ .		

l)	Wood Furniture Coating		
~~1)~~	~~Limitations before March 15, 1998:~~	~~kg/l~~	~~lb/gal~~
~~A)~~	~~Clear topcoat~~	~~0.67~~	~~(5.6)~~
~~B)~~	~~Opaque stain~~	~~0.56~~	~~(4.7)~~
~~C)~~	~~Pigmented coat~~	~~0.60~~	~~(5.0)~~
~~D)~~	~~Repair coat~~	~~0.67~~	~~(5.6)~~
~~E)~~	~~Sealer~~	~~0.67~~	~~(5.6)~~
~~F)~~	~~Semi-transparent stain~~	~~0.79~~	~~(6.6)~~
~~G)~~	~~Wash coat~~	~~0.73~~	~~(6.1)~~

~~BOARD NOTE: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all~~

coatings, with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.

- 12) Wood On and after March 15, 1998, wood furniture sealers and topcoats must comply with one of the limitations specified in subsections ~~(1)(1)(A)(1)(2)(A)~~ through (E):

		kg VOM/ kg solids	lb VOM/ lb solids
A)	Topcoat	0.8	(0.8)
B)	Sealers and topcoats with the following limits:		
	i) Sealer other than acid-cured alkyd amino vinyl sealer	1.9	(1.9)
	ii) Topcoat other than acid-cured alkyd amino conversion varnish topcoat	1.8	(1.8)
	iii) Acid-cured alkyd amino vinyl sealer	2.3	(2.3)
	iv) Acid-cured alkyd amino conversion varnish topcoat	2.0	(2.0)
C)	Meet the provisions of Section 218.215 <u>to use of this Subpart for use of</u> an averaging approach;		
D)	Achieve a reduction in emissions equivalent to the requirements of subsection ~~(1)(1)(A)(1)(2)(A)~~ or (B) <u>of this Section</u> , as calculated using Section 218.216 <u>of this Subpart</u> ; or		
E)	Use a combination of the methods <u>specified</u> in subsections		

~~(1)(1)(A)(1)(2)(A)~~ through (D) ~~of this Section.~~

23) Other wood furniture coating limitations ~~on and after March 15, 1998:~~

	kg/l	lb/gal
A) Opaque stain	0.56	(4.7)
B) Non-topcoat pigmented coat	0.60	(5.0)
C) Repair coat	0.67	(5.6)
D) Semi-transparent stain	0.79	(6.6)
E) Wash coat	0.73	(6.1)

34) Other wood furniture coating requirements ~~on and after March 15, 1998:~~

- A) ~~A~~ ~~No~~ source subject to the limitations of subsection ~~(1)(1) or (1)(2) or (3) of this Section~~ and using at least ~~utilizing one or more~~ wood furniture coating spray ~~booth must not~~ ~~booths shall~~ use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.
- B) Any source subject to the limitations of subsection ~~(1)(1) or (1)(2) must (3) of this Section shall~~ comply with ~~the requirements of~~ Section 218.217 ~~of this Subpart.~~
- C) Any source subject to the limitations of subsection ~~(1)(1)(A)(1)(2)(A) or (B) of this Section~~ and using ~~utilizing~~ one or more continuous coaters must ~~shall~~, for each continuous coater, use an initial coating which complies with the limitations of subsection ~~(1)(1)(A)(1)(2)(A) or (B) of this Section.~~ The viscosity of the coating in each reservoir must ~~shall~~ always be at least ~~greater than or equal to~~ the viscosity of the initial coating in the reservoir. The owner or operator must ~~shall~~:
- i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;
 - ii) Collect and record the reservoir viscosity and the amount

3929 and weight of VOM per weight of solids of coating and
 3930 solvent each time coating or solvent is added; and
 3931
 3932 iii) Maintain these records at the source for ~~a period of~~ three
 3933 years.
 3934

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
2)	Extreme performance top-coat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
3)	Final repair coat (air dried)	~~0.42~~ 0.42*	~~(3.5)~~ (3.5)*
4)	High-temperature aluminum coating	~~0.72~~ 0.72*	~~(6.0)~~ (6.0)*
5)	All other coatings	~~0.36~~ 0.36*	~~(3.0)~~ (3.0)*
n)	~~Prior to May 1, 2012:~~ Plastic Parts Coating: Automotive/Transportation	kg/l	lb/gal
1)	Interiors		
A)	Baked		
i)	Color coat	0.49*	(4.1)*
ii)	Primer	0.46*	(3.8)*
B)	Air-dried		
i)	Color coat	0.38*	(3.2)*
ii)	Primer	0.42*	(3.5)*
2)	Exteriors (flexible and non-flexible)		

A)	Baked		
	i)	Primer	0.60* (5.0)*
	ii)	Primer non-flexible	0.54* (4.5)*
	iii)	Clear coat	0.52* (4.3)*
B)	iv)	Color coat	0.55* (4.6)*
	Air-dried		
	i)	Primer	0.66* (5.5)*
	ii)	Clear coat	0.54* (4.5)*
3)	iii)	Color coat (red & black)	0.67* (5.6)*
	iv)	Color coat (others)	0.61* (5.1)*
Specialty			
A)	Vacuum metallizing basecoats, texture base coats		0.66* (5.5)*
B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings		0.71* (5.9)*
C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats		0.77* (6.4)*
D)	Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings		0.82* (6.8)*
E)	Headlamp lens coatings		0.89* (7.4)*

~~BOARD NOTE:~~ On and after May 1, 2012, the limitations in Section 218.204(q)~~218.240(q)~~ shall apply to this category of coating.

o) ~~Prior to May 1, 2012:~~ Plastic Parts Coating: kg/l lb/gal

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3937
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Business Machine

1)	Primer	0.14*	(1.2)*
2)	Color-coat (non-texture-coat)	0.28*	(2.3)*
3)	Color-coat (texture-coat)	0.28*	(2.3)*
4)	Electromagnetic-interference/radio frequency interference (EMI/RFI) shielding coatings	0.48*	(4.0)*
5)	Specialty coatings		
A)	Soft-coat	0.52*	(4.3)*
B)	Plating-resist	0.71*	(5.9)*
C)	Plating-sensitizer	0.85*	(7.1)*

BOARD NOTE: On and after May 1, 2012, the limitations in Section 218.204(q) ~~shall~~ apply to this category of coating.

- p) Flat Wood Paneling Coatings. ~~Flat~~ On and after August 1, 2010, flat wood paneling coatings ~~must~~~~shall~~ comply with one of the following limitations:
- 1) 0.25 kg ~~VOM/IVOM/1~~ of coatings (2.1 lb VOM/gal coatings); or
 - 2) 0.35 kg ~~VOM/IVOM/1~~ solids (2.9 lb VOM/gal solids).
- q) Miscellaneous Metal Parts and Products Coatings and Plastic Parts and Products Coatings ~~On and After May 1, 2012~~. ~~The~~ On and after May 1, 2012, the owner or operator of a miscellaneous metal or plastic parts coating line ~~must~~~~shall~~ comply with the limitations in this subsection ~~(q)~~. The limitations in this subsection ~~do(q)~~ ~~shall~~ not apply to ~~aerosol-coating products, powder coatings, or~~ primer sealants and ejection cartridge sealants used in ammunition manufacturing. aerosol coating products, or powder coatings. Primer sealants and ejection cartridge sealants ~~are~~~~shall instead be~~ regulated under Subpart TT ~~of this Part~~.
- 1) Metal Parts and Products. For ~~purposes of~~ this subsection (q)(1), "corrosion resistant basecoat" means a water-borne epoxy coating applied via an electrodeposition process to a metal surface ~~before~~~~prior to~~ spray coating to enhance, ~~for the purpose of enhancing~~ corrosion resistance.

The limitations in this subsection (q)(1) ~~do~~ shall not apply to stencil coats, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating. The limitations in Section 218.219, ~~however, shall~~ apply to these coatings unless specifically excluded in Section 218.219. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	General one component coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
B)	General multi-component coating		
	i) Air dried	0.34 (2.8)	0.54 (4.52)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
C)	Camouflage coating	0.42 (3.5)	0.80 (6.67)
D)	Electric-insulating varnish	0.42 (3.5)	0.80 (6.67)
E)	Etching filler	0.42 (3.5)	0.80 (6.67)
F)	Extreme high-gloss coating		

	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
G)	Extreme performance coating			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
H)	Heat-resistant coating			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
I)	High performance architectural coating			
J)	High temperature coating			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
K)	Metallic coating			
	i)	Air dried	0.42 (3.5)	0.80 (6.67)
	ii)	Baked	0.36 (3.0)	0.61 (5.06)
L)	Military specification coating			
	i)	Air dried	0.34 (2.8)	0.54 (4.52)
	ii)	Baked	0.28	0.40

		(2.3)	(3.35)
M)	Mold-seal coating	0.42 (3.5)	0.80 (6.67)
N)	Pan backing coating	0.42 (3.5)	0.80 (6.67)
O)	Prefabricated architectural coating: multi-component		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
P)	Prefabricated architectural coating: one-component		
	i) Air dried	0.42 (3.5)	0.80 (6.67)
	ii) Baked	0.28 (2.3)	0.40 (3.35)
Q)	Pretreatment coating	0.42 (3.5)	0.80 (6.67)
R)	Repair coats and touch-up coatings		
	i) Air dried	0.42 (3.5)	
	ii) Baked	0.36 (3.01)	
S)	Silicone release coating	0.42 (3.5)	0.80 (6.67)
T)	Solar-absorbent coating		

i)	Air dried	0.42 (3.5)	0.80 (6.67)
ii)	Baked	0.36 (3.0)	0.61 (5.06)
U)	Vacuum-metalizing coating	0.42 (3.5)	0.80 (6.67)
V)	Drum coating, new, exterior	0.34 (2.8)	0.54 (4.52)
W)	Drum coating, new, interior	0.42 (3.5)	0.80 (6.67)
X)	Drum coating, reconditioned, exterior	0.42 (3.5)	0.80 (6.67)
Y)	Drum coating, reconditioned, interior	0.50 (4.2)	1.17 (9.78)
Z)	Ammunition Sealants		
i)	Air dried	0.42 (3.5)	0.80 (6.67)
ii)	Baked	0.36 (3.0)	0.61 (5.06)
AA)	Electrical switchgear compartment coatings		
i)	Air dried	0.42 (3.5)	0.80 (6.67)
ii)	Baked	0.36 (3.0)	0.61 (5.06)
~~BB)~~	~~All other coatings~~		
~~i)~~	~~Air dried~~	~~0.40 (3.3)~~	~~0.73 (5.98)~~

ii)	Baked	0.34 (2.8)	0.54 (4.52)

2) Plastic Parts and Products: Miscellaneous. For ~~purposes of~~ this subsection (q)(2), miscellaneous plastic parts and products are plastic parts and products that are not subject to subsection (q)(3), (q)(4), (q)(5), or (q)(6) ~~of this Section~~. The limitations in subsection (q)(2) ~~do shall~~ not apply to touch-up and repair coatings; stencil coats applied on clear or transparent substrates; clear or translucent coatings; coatings applied at a paint manufacturing facility while conducting performance tests on the coatings; any individual coating category used in volumes less than 189.2 ~~liters~~ (50 ~~galgallons~~) in any one calendar year, if the total usage of all ~~such~~ coatings does not exceed 756.9 ~~liters~~ (200 ~~galgallons~~) per calendar year per source and substitute compliant coatings are not available; reflective coatings applied to highway cones; mask coatings that are less than 0.5 mm thick (dried) if the area coated is less than 25 square inches; electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings; and heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices if the total usage of all ~~such~~ coatings does not exceed 378.4 ~~liters~~ (100 ~~galgallons~~) per calendar year per source. The limitations in Section 218.219, ~~however, shall~~ apply to ~~thesesuch~~ coatings unless specifically excluded in Section 218.219. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	General one component coating	0.28 (2.3)	0.40 (3.35)
B)	General multi-component	0.42 (3.5)	0.80 (6.67)
C)	Electric dissipating coatings and shock-free coatings	0.80 (6.7)	8.96 (74.7)
D)	Extreme performance (2-pack coatings)	0.42 (3.5)	0.80 (6.67)
E)	Metallic coating	0.42	0.80

		(3.5)	(6.67)
F)	Military specification coating		
i)	1-pack coatings	0.28 (2.3)	0.54 (4.52)
ii)	2-pack coatings	0.42 (3.5)	0.80 (6.67)
G)	Mold-seal coating	0.76 (6.3)	5.24 (43.7)
H)	Multi-colored coating	0.68 (5.7)	3.04 (25.3)
I)	Optical coating	0.80 (6.7)	8.96 (74.7)
J)	Vacuum-metalizing coating	0.80 (6.7)	8.96 (74.7)
3)	Plastic Parts and Products: Automotive/Transportation. <u>The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.</u>		
		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	High bake coatings – interior and exterior parts		
i)	Flexible primer	0.54 (4.5)	1.39 (11.58)
ii)	Non-flexible primer	0.42 (3.5)	0.80 (6.67)
iii)	Basecoats	0.52 (4.3)	1.24 (10.34)
iv)	Clear coat	0.48	1.05

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3999
4000
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		(4.0)	(8.76)
	v) Non-basecoat/clear coat	0.52 (4.3)	1.24 (10.34)
B)	Low bake/air dried coatings – exterior parts		
	i) Primers	0.58 (4.8)	1.66 (13.80)
	ii) Basecoat	0.60 (5.0)	1.87 (15.59)
	iii) Clear coats	0.54 (4.5)	1.39 (11.58)
	iv) Non-basecoat/clear coat	0.60 (5.0)	1.87 (15.59)
C)	Low bake/air dried coatings – interior parts		
	i) Color coat	0.38 (3.2)	0.67 (5.66)
	ii) Primer	0.42 (3.5)	0.80 (6.67)
D)	Touchup and repair coatings	0.62 (5.2)	2.13 (17.72)
E)	Specialty		
	i) Vacuum metallizing basecoats	0.66 (5.5)	2.62 (21.8)
	ii) Vacuum metallizing topcoats	0.77 (6.4)	6.06 (49.1)
F)	Red, yellow, and black coatings: Subject coating lines <u>must</u> shall		

comply with a limit determined by multiplying the appropriate limit in subsections (q)(3)(A) through (q)(3)(C) ~~of this Section~~ by 1.15.

- 4) Plastic Parts and Products: Business Machine. The limitations of this subsection (q)(4) ~~do~~ not apply to vacuum metallizing coatings, gloss reducers, texture topcoats, adhesion primers, electrostatic preparation coatings, stencil coats, and resist coats other than plating resist coats. The limitations in Section 218.219, ~~however, shall~~ apply to ~~these such~~ coatings unless specifically excluded ~~in Section 218.219~~. The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	Primers	0.35 (2.9)	0.57 (4.80)
B)	Topcoat	0.35 (2.9)	0.57 (4.80)
C)	Color coat (texture coat)	0.28 (2.3)	0.40 (4.80)
D)	Color coat (non-texture coat)	0.28 (2.3)	0.40 (4.80)
E)	Texture coats other than color texture coats	0.35 (2.9)	0.57 (4.80)
F)	EMI/RFI shielding coatings	0.48 (4.0)	1.05 (8.76)
G)	Fog coat	0.26 (2.2)	0.38 (3.14)
H)	Touchup and repair	0.35	0.57

- 5) Pleasure Craft Surface Coatings: The owner or operator must comply with either the limit in weight of VOM per volume of coatings applied or weight of VOM per volume of solids applied.

4017

		kg/l (lb/gal) coatings	kg/l (lb/gal) solids
A)	Extreme high gloss coating – topcoat	0.60 (5.0)	1.88 (15.6)
B)	High gloss coating – topcoat	0.42 (3.5)	0.80 (6.7)
C)	Pretreatment wash primer	0.78 (6.5)	6.67 (55.6)
D)	Finish primer/surfacer	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	~~Prior to January 1, 2014~~	~~0.60~~ ~~(5.0)~~	~~1.88~~ ~~(15.6)~~
	~~On and after January 1, 2014~~	~~0.42~~ ~~(3.5)~~	~~0.80~~ ~~(6.7)~~
E)	High build primer/surfacer	0.34 (2.8)	0.55 (4.6)
F)	Aluminum substrate antifoulant coating	0.56 (4.7)	1.53 (12.8)
G)	Other substrate antifoulant coating	<u>0.40</u> <u>(3.3)</u>	<u>0.73</u> <u>(5.8)</u>
H)	Antifouling Sealer/Tie Coat	0.42 (3.5)	0.80 (6.7)
I)	All other pleasure craft surface coatings for metal or plastic	0.42 (3.5)	0.80 (6.7)

6) Motor Vehicle Materials

4018
4019
4020

kg/l
(lb/gal)
coatings

A)	Cavity wax	0.65 (5.42)
B)	Sealer	0.65 (5.42)
C)	Deadener	0.65 (5.42)
D)	Gasket/gasket sealing material	0.20 (1.67)
E)	Underbody coating	0.65 (5.42)
F)	Trunk interior coating	0.65 (5.42)
G)	Bedliner	0.20 (1.67)
H)	Lubricating wax/compound	0.70 (5.84)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.205 Daily-Weighted Average Limitations

~~An~~ owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Subpart~~ and complying by means of this Section ~~must not~~ shall operate the subject coating line unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), (h), ~~or (i), (j), or (k) of this Section~~ (depending upon the category of coating) through the applicable coating analysis test methods and procedures ~~specified~~ in Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(d) ~~of this Subpart~~:

- a) ~~An~~ owner or operator of a coating line subject to only one of the limitations from among Section ~~218.204(a)(1), (a)(5), (a)(6)~~ 218.204(a)(1)(A), (a)(1)(D), (a)(2)(A), (a)(2)(E), (a)(2)(F), ~~(c)(1)~~, (d), (e), (f), (i), or (p) ~~must not~~ of this Subpart shall apply coatings during any day on any ~~such~~ coating line, ~~during any~~

~~day~~, whose daily-weighted average VOM content exceeds the emission limitation to which the coatings are subject.

- b) ~~Prior to May 1, 2012, no owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 218.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~
- 1) ~~For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(j) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or~~
 - 2) ~~For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(j) of this Subpart, during the same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.~~

- ~~be)~~ ~~An~~ ~~No~~ owner or operator of a can coating line subject to the limitations of Section 218.204(b) ~~must not~~ ~~of this Subpart shall~~ operate the subject coating line using a coating with a VOM content ~~exceeding in excess of~~ the limitations ~~specified~~ in Section 218.204(b) ~~of this Subpart~~ unless all ~~of~~ the following requirements are met:

- 1) An alternative daily emission limitation ~~shall be determined~~ for the can coating operation, i.e., for all of the can coating lines at the source, must be determined according to subsection ~~(b)(2)(e)(2) of this Section~~. Actual daily emissions ~~must~~ ~~shall~~ never exceed the alternative daily emission limitation and ~~must~~ ~~shall~~ be calculated ~~using by use of~~ the following equation.

$$E_d = \sum_{i=1}^n V_i C_i$$

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied in the can coating operation, i.e., all can coating lines at the source;

V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) ~~must~~~~shall~~ be determined for the can coating operation, i.e., for all ~~of~~ the can coating lines at the source, on a daily basis as follows:

$$A_d = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

where:

A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of surface coatings applied in the can coating operation;

C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);

D_i = The density of VOM in each coating applied. ~~To calculate~~~~For the purposes of calculating~~ A_d , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);

V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);

L_i = The VOM emission limitation for each surface coating applied as specified in Section 218.204(b)~~-of this Subpart~~ in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

~~cd)~~ ~~An~~~~No~~ owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) ~~must not~~~~of this Subpart shall~~ apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection ~~(c)(1)(d)(1)~~ or ~~(c)(2)(d)(2) of this Section~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(k)~~-of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must~~~~shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(k)~~-of this Subpart~~, during the same day, the owner or operator ~~must~~~~shall~~ have a ~~site-specific~~~~site-specific~~ proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~de)~~ ~~An~~~~No~~ owner or operator of a wood furniture coating line subject to the limitations of Section ~~218.204(l)(2) must not~~~~218.204(l)(1) or (l)(3) of this Subpart shall~~ apply coatings to wood furniture on the subject coating line unless the requirements of subsection ~~(d)(1)(e)(1)~~ or subsection ~~(d)(2)(e)(2) of this Section, in addition to the requirements specified in the note to Section 218.204(l)(1) of this Subpart,~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section ~~218.204(l)(2)~~~~218.204(l)(1) or (l)(3) of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content ~~must~~~~shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section ~~218.204(l)(2)~~~~218.204(l)(1) or (l)(3) of this Subpart,~~ during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site-specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~ef)~~ ~~An~~No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) ~~must not~~of this Subpart shall apply coatings to diesel-electric locomotives on the subject coating line unless the requirements of subsection ~~(e)(1)(f)(1) or (e)(2)(f)(2) of this Section~~ are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(m) ~~of this Subpart,~~ during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must~~shall not exceed the coating VOM content limit corresponding to the category of coating used; or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m) ~~of this Subpart,~~ during the same day, the owner or operator ~~must~~shall have a ~~site-specific~~site-specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~g)~~ ~~Prior to May 1, 2012, no owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:~~

- ~~1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or~~

2) ~~For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(n) or (o) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.~~

~~fh)~~ ~~An~~ owner or operator of a metal furniture coating line, subject to the limitations of Section 218.204(g) ~~must not of this Subpart shall~~ apply coatings on the subject coating line unless the requirements of subsection ~~(f)(1)(h)(1) or (f)(2)(h)(2) of this Section~~ are met:

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(g) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content ~~must shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(g) ~~of this Subpart~~, during the same day, the owner or operator ~~must shall~~ have a ~~site-specific~~ site-specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~gi)~~ ~~An~~ owner or operator of a large appliance coating line, subject to the limitations of Section 218.204(h) ~~must not of this Subpart shall~~ apply coatings on the subject coating line unless the requirements of subsection ~~(g)(1)(i)(1) or (g)(2)(i)(2) of this Section~~ are met:

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content ~~must shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h) ~~of this Subpart~~, during the same day, the owner or operator ~~must shall~~ have a ~~site-~~

~~specific~~ site-specific proposal approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~h)~~ h) On and after May 1, 2011, ~~an~~ owner or operator of a paper coating line subject to the limitations of Section 218.204(c) ~~must not of this Subpart shall~~ apply coatings on the subject coating line unless the requirements in subsection ~~(h)(1)(j)(1) or (h)(2)(j)(2) of this Section~~ are met:

- 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(c) during the same day (e.g., all coatings used on the line are subject to 0.40 kg/kg solids (0.08 kg/kg coatings)), the daily-weighted average VOM content ~~must shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(c) during the same day, the owner or operator ~~must shall~~ have a site-specific proposal approved by the Agency and approved by USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

~~ik)~~ ik) On and after May 1, 2012, ~~an~~ owner or operator of a miscellaneous metal parts and products coating line, plastic parts or products coating line, pleasure craft surface coating line, or motor vehicle materials coating line subject to the limitations of Section 218.204(q) ~~must not of this Subpart shall~~ apply coatings on the subject coating line unless the requirements of subsection ~~(i)(1)(k)(1) or (i)(2)(k)(2) of this Section~~ are met:

- 1) For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(q) ~~of this Subpart~~, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content ~~must shall~~ not exceed the coating VOM content limit corresponding to the category of coating used; or
- 2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(q) ~~of this Subpart~~, during the same day, the owner or operator ~~must shall~~ have a site-specific proposal approved by the Agency and approved by

USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.206 Solids Basis Calculation

Limitations in terms of kg (lbs) of VOM emissions per 14 (gal) of solids as applied at each coating applicator ~~must~~shall be determined by the following equation:

$$S = \frac{C}{1 - (C/D)}$$

where:

- S = The limitation on VOM emissions in terms of kg VOM/1VOM/4 (lbs VOM/gal) of solids;
- C = The limitation on VOM emissions in terms of kg/1kg/4 (lbs/gal) of coating (~~excluding~~minus water and any compounds which are specifically excluded from the definition of VOM) ~~specified~~ in Section 218.204 ~~of this Part~~;
- D = The density of VOM in the coating. To calculate~~For the purposes of calculating~~ S, the density is 0.882 kg VOM/1VOM/4 VOM (7.36 lbs VOM/gal VOM).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.207 Alternative Emission Limitations

- a) Any owner or operator of a coating line subject to Section 218.204 ~~of this Subpart~~, except coating lines subject to Section 218.204(q)(6), may comply with this Section; rather than with Section 218.204 ~~of this Subpart~~, if the requirements in subsections (a)(1) through (a)(3) are met. A capture system and control device which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), or (j) may be used as an alternative to compliance with Section 218.204 only if the alternative is approved by the Agency and approved by USEPA as a SIP revision.

1) ~~A~~ capture system and control device are operated at all times the coating line is in operation; ~~and the~~

2) The owner or operator demonstrates compliance with subsections (c), (d),

(e), (f), (g), (h), (i), ~~or (j), (k), (l), (m), or (n) of this Section~~ (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures ~~specified~~ in Section 218.105 ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(e) ~~of this Subpart~~; and

- 3) ~~The~~ the control device is equipped with the applicable monitoring equipment ~~specified~~ in Section 218.105(d) ~~of this Part~~ and the monitoring equipment is installed, calibrated, operated, and maintained according to vendor specifications at all times the control device is in use. ~~A capture system and control device, which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), (j), (k), (l), (m), or (n) of this Section may be used as an alternative to compliance with Section 218.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.~~

b) Alternative Add-On Control Methodologies

- 1) The coating line is equipped with a capture system and control device that provides ~~81%81 percent~~ reduction in the overall emissions of VOM from the coating line, and the control device has a ~~90%90 percent~~ efficiency; or
- 2) The system used to control VOM from the coating line is demonstrated to have an overall efficiency sufficient to limit VOM emissions to no more than what is allowed under Section 218.204 ~~of this Subpart~~. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption scrubber system can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision. Baseline transfer efficiencies and transfer efficiency test methods must be approved by the Agency and ~~the~~ USEPA. ~~The~~ Such overall efficiency is to be determined as follows:
 - A) Obtain the emission limitation from the appropriate subsection in Section 218.204 ~~of this Subpart~~;
 - B) Unless complying with an emission limitation in Section 218.204 that is already expressed in terms of weight of VOM per volume of solids, calculate "S" according to the equation in Section 218.206 ~~of this Subpart~~. For coating lines subject to an emission limitation in Section 218.204 that is already expressed in terms of weight of VOM per volume of solids, "S" is equal to ~~thesueh~~ the emission limitation; and

C) Calculate the overall efficiency required according to Section 218.105(e) ~~of this Part. To calculate~~ ~~For the purposes of calculating~~ this value, according to the equation in Section 218.105(e)(2) ~~of this Part~~, VOM_1 is equal to the value of "S" as determined in subsection (b)(2)(B) ~~of this Section~~. If the coating line is subject to an emission limitation in Section 218.204 ~~of this Subpart~~ that is already expressed in terms of weight of VOM per volume of solids, VOM_1 is equal to that emission limitation.

c) ~~An~~ owner or operator of a coating line subject to only one of the emission limitations from among Section 218.204(a)(1), (a)(5), (a)(6) ~~218.204(a)(1)(A), (a)(1)(D), (a)(2)(A), (a)(2)(E), (a)(2)(F), (e)(1), (d), (e), (f), or (i) of this Subpart~~ and equipped with a capture system and control device ~~must not~~ shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met. ~~An~~ owner or operator of a coating line subject to Section 218.204(a)(2), (a)(3), or (a)(4) ~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ and equipped with a capture system and control device ~~must not~~ shall operate the coating line unless the owner or operator demonstrates compliance with ~~the~~ such limitation in accordance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(A) or (b)(1)(B), as applicable.

d) ~~No owner or operator of a miscellaneous metal parts and products coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(j) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~

~~de)~~ ~~An~~ owner or operator of a heavy off-highway vehicle products coating line that applies at least one ~~coating or more coatings~~ during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(k) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and control device ~~must not~~ shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met.

~~ef)~~ ~~An~~ owner or operator of an existing diesel-electric locomotive coating line in Cook County that applies at least one ~~coating or more coatings~~ during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(m) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and

control device ~~must notshall~~ operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met.

~~fg)~~ ~~An~~~~No~~ owner or operator of a wood furniture coating line that applies at least one ~~coating or more coatings~~ during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(1) ~~of this Subpart~~ (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), and that is equipped with a capture system and control device ~~must notshall~~ operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) ~~of this Section~~ are met. ~~If compliance is achieved by meeting the requirements in subsection (b)(2) of this Section, then the provisions in the note to Section 218.204(1) of this Subpart must also be met.~~

~~gh)~~ ~~An~~~~No~~ owner or operator of a can coating line ~~that is~~ equipped with a capture system and control device ~~must notshall~~ operate the subject coating line unless the requirements in subsection ~~(g)(1)(h)(1)~~ or ~~(g)(2)(h)(2)~~ ~~of this Section~~ are met.

- 1) An alternative daily emission limitation ~~shall be determined~~ for the can coating operation, i.e., for all ~~of~~ the can coating lines at the source, must be determined according to Section ~~218.205(b)(2)~~ ~~218.205(e)(2)~~ ~~of this Subpart~~. Actual daily emissions ~~must notshall never~~ exceed the alternative daily emission limitation and ~~mustshall~~ be calculated using ~~by use of~~ the following equation:

$$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$$

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day);

i = Subscript denoting the specific coating applied;

n = Total number of surface coatings as applied in the can coating operation;

V_i = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM);

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and

F_i = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

2) The coating line is equipped with a capture system and control device that provide ~~75%~~~~75 percent~~ reduction in the overall emissions of VOM from the coating line, and the control device has a ~~90%~~~~90 percent~~ efficiency.

~~i) No owner or operator of a plastic parts coating line, that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~

~~j) Prior to May 1, 2011, no owner or operator of a metal furniture coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(g) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~

~~k) Prior to May 1, 2011, no owner or operator of a large appliance coating line that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), and that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.~~

~~h)~~ h) ~~An~~On and after May 1, 2011, no owner or operator of a paper coating line, metal furniture coating line, or large appliance coating line that is equipped with a capture system and control device ~~must not~~shall operate the subject coating line unless either:

- 4433 1) The capture system and control device provide at least ~~90%~~90-percent
 4434 reduction in the overall emissions of VOM from the coating line; or
 4435
 4436 2) The owner or operator complies with the applicable limitation~~-set forth~~ in
 4437 Section 218.204~~-of this Subpart~~ by ~~using~~utilizing a combination of low-
 4438 VOM coatings and a capture system and control device.
 4439
 4440 im) ~~An~~No owner or operator of a flat wood paneling coating line that is equipped with
 4441 a capture system and control device must not~~shall~~ operate the subject coating line
 4442 unless either:
 4443
 4444 1) The capture system and control device provide at least ~~90%~~90-percent
 4445 reduction in the overall emissions of VOM from the coating line; or
 4446
 4447 2) The owner or operator of the flat wood paneling coating line complies
 4448 with all requirements~~-set forth~~ in subsection (b)(2)~~-of this Section~~.
 4449
 4450 jn) ~~An~~On and after May 1, 2012, no owner or operator of a miscellaneous metal parts
 4451 and products coating line, plastic parts and products coating line, or pleasure craft
 4452 surface coating line that is equipped with a capture system and control device
 4453 must not~~shall~~ operate the subject coating line unless:
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 4455 1) The capture system and control device provide at least ~~90%~~90-percent
 4456 reduction in the overall emissions of VOM from the coating line; or
 4457
 4458 2) The owner or operator of the coating line complies with all requirements
 4459 ~~set forth~~ in subsection (b)(2)~~-of this Section~~.
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4461 (Source: Amended at 50 Ill. Reg. _____, effective _____)
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4463 **Section 218.208 Exemptions from Emission Limitations** 4464

- 4465 a) Exemptions for all coating categories except wood furniture coating;
 4466
 4467 1) The limitations of this Subpart ~~do~~shall not apply to coating lines within a
 4468 source; that otherwise would be subject to the same subsection of Section
 4469 218.204 (because they belong to the same coating category, e.g., can
 4470 coating), ~~if provided that~~ combined actual emissions of VOM from all lines
 4471 at the source subject to that subsection never exceed 6.8 kg/day (15
 4472 lbs/day) before ~~applying the application of~~ capture systems and control
 4473 devices. (For example, can coating lines within a source would not be
 4474 subject to the limitations of Section 218.204(b)~~-of this Subpart~~ if the
 4475 combined actual emissions of VOM from the can coating lines never

exceed 6.8 kg/day (15 lbs/day) before ~~applying the application of~~ capture systems and control devices.) ~~Prior to May 1, 2012, volatile organic material emissions from heavy off-highway vehicle products coating lines must be combined with VOM emissions from miscellaneous metal parts and products coating lines to determine applicability. On and after May 1, 2012,~~

- 2) VOM emissions from heavy off-highway vehicle products coating lines ~~must~~shall be combined with VOM emissions from miscellaneous metal parts and products coating lines and plastic parts and products coating lines to determine applicability.
- 3) Any owner or operator of a coating source ~~must~~shall comply with the applicable coating analysis test methods and procedures ~~specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(a), of this Subpart~~ if total VOM emissions from the subject coating lines are always ~~less than or equal to~~ 6.8 kg/day (15 lbs/day) ~~or less~~ before ~~applying the application of~~ capture systems and control devices and, ~~therefore,~~ are not subject to the limitations of Section 218.204 ~~of this Subpart~~.
- 4) Once a category of coating lines at a source is subject to the limitations in Section 218.204, ~~of this Subpart~~ the coating lines are always subject to the limitations in Section 218.204 ~~of this Subpart~~.

b) Applicability for wood furniture coating

- 1) The limitations of this Subpart ~~shall~~ apply to a source's wood furniture coating lines if the source contains process emission units, not regulated by Subparts B, E, F (excluding Section 218.204(l) ~~of this Subpart~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, or BB ~~of this Part~~, which as a group both:
 - A) Have ~~a~~ maximum theoretical emissions of at least 91 Mg (100 tons) ~~or more~~ per calendar year of VOM if no air pollution control equipment were used; and
 - B) Are not limited to less than 91 Mg (100 tons) of VOM per calendar year if no air pollution control equipment were used, through production or capacity limitations ~~contained~~ in a federally enforceable permit or SIP revision.
- 2) The limitations of this Subpart ~~shall~~ apply to a source's wood furniture

coating lines, on and after March 15, 1996, if the source contains process emission units, which, as a group, have a potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per calendar year and have not limited emissions to less than 22.7 Mg (25 tons) of VOM per calendar year through production or capacity limitations ~~contained~~ in a federally enforceable operating permit or SIP revision, and that:

- A) Are not regulated by Subparts B, E, F (excluding Section 218.204(l) ~~of this Subpart~~), H, Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z or BB ~~of this Part~~; and
 - B) Are not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile~~ organic liquid storage tanks, and clean-up solvents operations.
- 3) If a source ceases to fulfill the criteria of subsection (b)(1) or (b)(2) ~~of this Section~~, the limitations of Section 218.204(l) ~~of this Subpart shall~~ continue to apply to any wood furniture coating line which was ever subject to the limitations of Section 218.204(l) ~~of this Subpart~~.
- 4) For ~~this~~ the purposes of subsection (b) ~~of this Section~~, an emission unit ~~is shall be~~ considered ~~to be~~ regulated by a Subpart if it is subject to the limitations of that Subpart. An emission unit is not considered regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart, or the applicability criteria of the Subpart are not met.
- 5) Any owner or operator of a wood furniture coating line to which the limitations of this Subpart are not applicable due to the criteria in this subsection (b) ~~must of this Section shall~~, upon request by the Agency or ~~the~~ USEPA, submit records to the Agency and ~~the~~ USEPA within 30 calendar days ~~after from~~ the date of the request that document that the coating line is exempt from the limitations of this Subpart.
- c) On and after March 15, 1996, the limitations of this Subpart ~~do shall~~ not apply to touch-up and repair coatings used by a coating source described by Section 218.204(b), (d), (f), (g), (i), and (q)(5) ~~if/yr of this Subpart; provided that~~ the source-wide volume of ~~these such~~ coatings used ~~is does not exceed~~ 0.95 ~~l~~ (1 quart) or less per eight-hour period or ~~exceed~~ 209 ~~l/yr~~ (55 gal/yr) or less for any rolling ~~12-month~~ 12-month period. Recordkeeping and reporting for touch-up and

repair coatings ~~must~~shall be consistent with subsection ~~(d)(e)~~ of this Section.

d) ~~Prior to May 1, 2012, the limitations of this Subpart shall not apply to touch-up and repair coatings used by a coating source described by Section 218.204(j), (n), and (o) of this Subpart, provided that the source-wide volume of the coatings used does not exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr (55 gal/yr) for any rolling 12-month period. Recordkeeping and reporting for touch-up and repair coatings shall be consistent with subsection (e) of this Section.~~

de) On and after March 15, 1996, the owner or operator of a coating line or a group of coating lines using touch-up and repair coatings that are exempted from the limitations of Section 218.204(b), (d), (f), (g), (i), ~~(j), (n), (o)~~, and (q)(5) by subsection of this Subpart because of the provisions of subsection 218.208(c) must ~~(d) of this section shall~~:

- 1) Collect and record the name, identification number, and volume used of each touch-up and repair coating, as applied on each coating line, per eight-hour period and per month;
- 2) Perform calculations on a daily basis, and maintain at the source records of ~~thesueh~~ calculations, of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;
- 3) Perform calculations on a monthly basis, and maintain at the source records of ~~thesueh~~ calculations, of the combined volume of touch-up and repair coatings used source-wide for the month and the rolling 12-month~~12-month~~ period;
- 4) Prepare and maintain at the source an annual summary of the information required to be compiled ~~underpursuant to~~ subsections ~~(d)(1)(e)(1)~~ and ~~(d)(2) by(e)(2) of this Section on or before~~ January 31 of the following year;
- 5) Maintain at the source for ~~at least a minimum period of~~ three years all records required to be kept under this subsection ~~(d),(e)~~ and make ~~thesueh~~ records available to the Agency upon request; and
- 6) Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.95 l (1 quart) per eight-hour period or ~~exceeds~~ 209 l/yr (55 gal/yr) for any rolling 12-month~~12-month~~ period within 30 days after ~~theany such~~ exceedance. TheSueh notification mustshall include a copy of any records of ~~thesueh~~ exceedance; and

- 7) "Touch-up and repair coatings" means, for ~~Section purposes of 35 Ill. Adm. Code~~ 218.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.209 Exemption From General Rule on Use of Organic Material

~~An~~ owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Part~~ is not required to meet the limitations of ~~Subpart G (Section 218.301 or 218.302) of this Part~~, after the date by which the coating line is required to meet Section 218.204 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.210 Compliance Schedule

Every owner or operator of a coating line (of a type included within Section 218.204 ~~of this Subpart~~) ~~must~~shall comply with the requirements of Section 218.204, 218.205, 218.207, or 218.208 and Section 218.211 or Sections 218.212 and 218.213 ~~of this Subpart~~ in accordance with the appropriate compliance schedule ~~as specified~~ in subsection (a), (b), (c), (d), (e), (f), (g), (h), or (i) ~~of this Section~~:

- a) ~~An~~ owner or operator of a coating line that is exempt from the limitations of Section 218.204 ~~of this Subpart~~ because of the criteria in Section 218.208(a) or (b) ~~must not of this Subpart shall~~ operate the said coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.211(b) ~~of this Subpart~~.
- b) ~~An~~ owner or operator of a coating line complying ~~under by means of~~ Section 218.204 ~~must not of this Subpart shall~~ operate the said coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Sections 218.204 and 218.211(c) ~~of this Subpart~~.
- c) ~~An~~ owner or operator of a coating line complying ~~under by means of~~ Section 218.205 ~~must not of this Subpart shall~~ operate the said coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Sections 218.205 and 218.211(d) ~~of this Subpart~~.
- d) ~~An~~ owner or operator of a coating line complying ~~under by means of~~ Section 218.207 ~~must not of this Subpart shall~~ operate the said coating line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has

complied with, and continues to comply with, Sections 218.207 and 218.211(e) ~~of this Subpart.~~

- e) ~~An~~ owner or operator of a coating line subject to at least one ~~or more~~ of the emission limitations ~~contained in Section 218.204 of this Subpart~~ on or after March 15, 1996, and choosing to comply ~~under by means of~~ Section 218.204, 218.205, or 218.207 ~~must not of this Subpart, shall~~ operate ~~the said~~ coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with, ~~respectively,~~ the applicable requirements in Section 218.204, or the alternative control options in Section 218.205 or 218.207, and the requirements of Section 218.211.
- f) ~~An~~ owner or operator of a coating line subject to at least one ~~or more~~ of the emission limitations ~~contained in Section 218.204 of this Subpart~~ on or after March 15, 1996, and choosing to comply ~~under by means of~~ Section 218.212 must not of this Subpart, shall operate ~~the said~~ coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the requirements of Sections 218.212 and 218.213 ~~of this Subpart.~~
- g) ~~An~~ owner or operator of a coating line subject to the emission limitations in Section 218.204(c)(1), (g)(1), or (h)(1) ~~must not 218.204(e)(2), (g)(2), or (h)(2) of this Subpart shall~~ operate that coating line on or after a date consistent with Section 218.106(f) ~~of this Part,~~ unless the owner or operator has complied with, and continues to comply with, Section 218.204(c)(1), (g)(1), or (h)(1) ~~218.204(e)(2), (g)(2), or (h)(2),~~ as applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.218 ~~of this Subpart.~~
- h) ~~An~~ owner or operator of a coating line subject to the emission limitations ~~contained in~~ Section 218.204 (p) must not of this Subpart shall operate that coating line on or after a date consistent with Section 218.106(f) ~~of this Part,~~ unless the owner or operator has complied with, and continues to comply with, Section 218.204(p) or the alternative control options in Section 218.205 or 218.207, and all applicable ~~the~~ requirements ~~in of~~ Sections 218.211 and 218.217 ~~of this Subpart, as applicable.~~
- i) No owner or operator of a coating line subject to the emission limitations in Section 218.204(a)(2) or (q) of this Subpart, or subject to the limitations in Section 218.219 of this Subpart, shall operate the coating line on or after a date consistent with Section 218.106(g) of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.204(a)(2) or (q), if applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.219 of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.211 Recordkeeping and Reporting

- a) The VOM content of each coating and the efficiency of each capture system and control device must be determined by the applicable test methods and procedures ~~specified~~ in Section 218.105 ~~of this Part~~ to establish the records required under this Section.
- b) Any owner or operator of a coating line that is exempted from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) or (b) ~~must of this Subpart~~ shall comply with the following:
 - 1) For sources exempt under Section 218.208(a) ~~of this Subpart~~, by a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) ~~must of this Section~~ shall certify to the Agency that the coating line or group of coating lines is exempt under ~~the provisions of~~ Section 218.208(a) ~~of this Subpart~~. ~~The~~ Such certification must include:
 - A) A declaration that the coating line or group of coating lines is exempt from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) ~~of this Subpart~~; and
 - B) Calculations that demonstrate that the combined VOM emissions from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before ~~applying the application of~~ capture systems and control devices. The following equation must be used to calculate total VOM emissions:

$$T_e = \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

where:

T_e = Total VOM emissions from coating lines each day before ~~applying the application of~~ capture systems and control devices in units of kg/day (lbs/day);

m = Number of coating lines at the source that otherwise would be subject to the same subsection of Section 218.104 ~~of this Part~~ (because they belong to the same category, e.g., can coating);

j = Subscript denoting an individual coating line;

n = Number of different coatings as applied each day on each coating line;

i = Subscript denoting an individual coating;

A_i = Weight of VOM per volume of each coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); and

B_i = Volume of each coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day ~~must~~~~shall~~ be described in the certification to the Agency.

2) For sources exempt under Section 218.208(b) ~~of this Subpart~~, by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) ~~must~~~~of this Section~~ ~~shall~~ certify to the Agency that the source is exempt under ~~the provisions~~ ~~of~~ Section 218.208(b) ~~of this Subpart~~. ~~The~~~~Such~~ certification ~~must~~~~shall~~ include:

A) A declaration that the source is exempt from the limitations of Section 218.204(l) ~~of this Subpart~~ because of Section 218.208(b) ~~of this Subpart~~; and

B) Calculations that demonstrate that the source meets the criteria for exemption because of Section 218.208(b) ~~of this Subpart~~.

3) For sources exempt under Section 218.208(a) ~~of this Subpart~~, on and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or group of coating lines referenced in this subsection ~~must~~~~shall~~ collect and record all of the following information each day for

each coating line and maintain the information at the source for ~~a period of~~ three years:

A) The name and identification number of each coating as applied on each coating line; and

B) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.

4) For sources exempt under Section 218.208(b) ~~of this Subpart~~, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) ~~must~~~~shall~~ collect and record all of the following information for each coating line and maintain the information at the source for ~~a period of~~ three years:

A) The name and identification number of each coating as applied on each coating line; and

B) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.

5) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 218.204 ~~of this Subpart~~ because of Section 218.208(a) ~~must of this Subpart shall~~ notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before ~~applying the application of~~ capture systems and control devices by sending a copy of ~~the such~~ record to the Agency within 30 days after the exceedance occurs.

6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(l) ~~of this Subpart~~ because of Section 218.208(b) ~~must of this Subpart shall~~ notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing ~~the such an~~ exceedance within 30 days after the change occurs.

c) Any owner or operator of a coating line subject to the limitations of Section 218.204 ~~of this Subpart~~ other than Section 218.204(a)(2), (a)(3), or

~~(a)(4)218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ and complying ~~underby means of~~ Section 218.204 ~~mustof this Subpart shall~~ comply with the following:

- 1) By a date consistent with Section 218.106~~of this Part, or~~ upon initial start-up of a new coating line, or upon changing the method of compliance ~~forfrom~~ an existing subject coating line from Section 218.205, ~~Section~~ 218.207, ~~Section~~ 218.215, or ~~Section~~ 218.216~~of this Subpart~~ to Section 218.204~~of this Subpart~~; the owner or operator of a subject coating line ~~mustshall~~ certify to the Agency that the coating line will be in compliance with Section 218.204~~of this Subpart~~ on and after a date consistent with Section 218.106~~of this Part~~, or on and after the initial start-up date. The certification ~~mustshall~~ include:
 - A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume of each coating (~~excludingminus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;
 - C) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(l)(1)(A)218.204(l)(2)(A)~~ or (B)~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line;
 - D) For coating lines subject to the limitations of Section ~~218.204(c)(1)218.204(c)(2)of this Subpart~~, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line;
 - E) For coating lines subject to the limitations of Section ~~218.204(g)(1)218.204(g)(2) or (h)(1)(h)(2)of this Subpart~~, the application methods used to apply coatings on the subject coating line and the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line;
 - F) For coating lines subject to the limitations of Section 218.204(p)~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;

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- G) For coating lines subject to the limitations of Section 218.204(a)(1)~~218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line, and the solids turnover ratio of the EDP operation, with supporting calculations;
- H) For coating lines subject to the limitations of Section 218.204(a)(5)~~218.204(a)(2)(E)~~, the weight of VOM per volume and volume of each coating used in the final repair coat operation, and the weight of VOM per volume of the final repair coat as applied, calculated on an occurrence weighted average basis;
- I) For coating lines subject to the limitations of Section 218.204(q)~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
- 2) On and after a date consistent with Section 218.106~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line ~~must~~shall collect and record all of the following information each day, unless otherwise specified, for each coating line and maintain the information at the source for ~~a period of~~ three years:
- A) The name and identification number of each coating as applied on each coating line;
- B) The weight of VOM per volume of each coating (~~excluding~~minus water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line;
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(1)(A)~~218.204(l)(2)(A)~~ or (B)~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line, and certified product data sheets for each coating;
- D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 218.204(l)(3)(A)~~218.204(l)(4)(A)~~ of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth, and certified product data sheets for each coating;

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- E) For coating lines subject to the limitations of Section ~~218.204(c)(1)218.204(c)(2) of this Subpart~~, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating;
- F) For coating lines subject to the limitations of Section ~~218.204(g)(1)218.204(g)(2) or 218.204(h)(1)218.204(h)(2) of this Subpart~~, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating;
- G) For coating lines subject to the limitations of Section 218.204(p)-~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line;
- H) For coating lines subject to the limitations of Section ~~218.204(a)(1)218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line, certified product data sheets for each coating, and the solid turnover ratio for the EDP operation, calculated on a calendar monthly basis, with supporting calculations;
- I) For coating lines subject to the limitations of Section ~~218.204(a)(5)218.204(a)(2)(E)~~, the weight of VOM per volume and volume of each coating used in the final repair coat operation, the weight of VOM per volume of the final repair coat as applied, calculated on an occurrence weighted average basis, and certified product data sheets for each coating; and
- J) For coating lines subject to the limitations of Section 218.204(q)-~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line, and certified product data sheets for each coating.
- 3) On and after a date consistent with Section 218.106-~~of this Part~~, the owner or operator of a subject coating line ~~must~~shall notify the Agency in the following instances:

- 4917 A) Any record showing violation of Section 218.204 ~~must of this~~
 4918 ~~Subpart shall~~ be reported by sending a copy of ~~thesuch~~ record to
 4919 the Agency within 30 days ~~after following the occurrence of~~ the
 4920 violation.
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- 4922 B) At least 30 calendar days before changing the method of
 4923 compliance from Section 218.204 ~~of this Subpart~~ to Section
 4924 218.205 or ~~Section~~ 218.207 ~~of this Subpart~~, the owner or operator
 4925 shall comply with all requirements of subsection (d)(1) or (e)(1) ~~of~~
 4926 ~~this Section~~, as applicable. Upon changing the method of
 4927 compliance from Section 218.204 ~~of this Subpart~~ to Section
 4928 218.205 ~~of this Subpart~~ or ~~Section~~ 218.207 ~~of this Subpart~~, the
 4929 owner or operator ~~mustshall~~ comply with all requirements of
 4930 subsection (d) or (e) ~~of this Section~~, as applicable.
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- 4932 d) Any owner or operator of a coating line subject to the limitations of Section
 4933 218.204 ~~of this Subpart~~ and complying ~~underby means of~~ Section 218.205 ~~must of~~
 4934 ~~this Subpart shall~~ comply with the following:
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- 4936 1) By a date consistent with Section 218.106 ~~of this Part, or~~ upon initial start-
 4937 up of a new coating line, or upon changing the method of compliance for
 4938 an existing subject coating line from Section 218.204 or ~~Section~~ 218.207
 4939 ~~of this Subpart~~ to Section 218.205 ~~of this Subpart~~; the owner or operator
 4940 of the subject coating line ~~mustshall~~ certify to the Agency that the coating
 4941 line will be in compliance with Section 218.205 ~~of this Subpart~~ on and
 4942 after a date consistent with Section 218.106 ~~of this Part~~, or on and after the
 4943 initial start-up date. The certification ~~mustshall~~ include:
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- 4945 A) The name and identification number of each coating line which
 4946 will comply by means of Section 218.205 ~~of this Subpart~~.
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- 4948 B) The name and identification number of each coating as applied on
 4949 each coating line.
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- 4951 C) The weight of VOM per volume and the volume of each coating
 4952 (~~excluding minus~~ water and any compounds which are specifically
 4953 exempted from the definition of VOM) as applied each day on
 4954 each coating line.
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- 4956 D) On and after March 15, 1998, for coating lines subject to the
 4957 limitations of Section ~~218.204(1)(1)(a)218.204(1)(2)(A)~~ or (B) ~~of~~
 4958 ~~this Subpart~~, the weight of VOM per weight of solids in each
 4959 coating as applied each day on each coating line.

- 4960
- 4961
- 4962 E) For coating lines subject to the limitations of Section
- 4963 ~~218.204(a)(1)218.204(a)(2)(A) of this Subpart~~, the weight of VOM
- 4964 per volume of solids in each coating as applied each day on each
- 4965 coating line.
- 4966
- 4967 F) For coating lines subject to the limitations of Section
- 4968 ~~218.204(c)(1)218.204(e)(2) of this Subpart~~, the weight of VOM
- 4969 per weight of solids (or the weight of VOM per weight of coatings,
- 4970 as applicable) in each coating as applied each day on each coating
- 4971 line.
- 4972
- 4973 G) For coating lines subject to the limitations of Section
- 4974 ~~218.204(g)(1)218.204(g)(2) or (h)(1)(h)(2) of this Subpart~~, the
- 4975 weight of VOM per volume of each coating (or the weight of
- 4976 VOM per volume of solids in each coating, as applicable) as
- 4977 applied each day on each coating line.
- 4978
- 4979 H) For coating lines subject to the limitations of Section 218.204(p)-~~of~~
- 4980 ~~this Subpart~~, the weight of VOM per volume of coatings or solids,
- 4981 as applicable, for each coating, as applied each day on each coating
- 4982 line.
- 4983
- 4984 I) For coating lines subject to the limitations of Section 218.204(q)-~~of~~
- 4985 ~~this Subpart~~, the weight of VOM per volume of each coating; or
- 4986 the weight of VOM per volume of solids in each coating, as
- 4987 applicable, as applied each day on each coating line.
- 4988
- 4989 J) The instrument or method by which the owner or operator will
- 4990 accurately measure or calculate the volume of each coating as
- 4991 applied each day on each coating line.
- 4992
- 4993 K) The method by which the owner or operator will create and
- 4994 maintain records each day as required in subsection (d)(2)-~~of this~~
- 4995 ~~Section~~.
- 4996
- 4997 L) An example of the format in which the records required in
- 4998 subsection (d)(2)-~~of this Section~~ will be kept.
- 4999
- 5000 2) On and after a date consistent with Section 218.106-~~of this Part~~, or on and
- 5001 after the initial start-up date, the owner or operator of a subject coating
- 5002 line ~~must~~shall collect and record all of the following information each day
- for each coating line and maintain the information at the source for ~~a~~

~~period of~~ three years:

- A) The name and identification number of each coating as applied on each coating line.
- B) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM) as applied each day on each coating line.
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section ~~218.204(l)(1)(A)218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
- D) For coating lines subject to the limitations of Section ~~218.204(a)(1)218.204(a)(2)(A) of this Subpart~~, the weight of VOM per volume of solids in each coating as applied each day on each coating line.
- E) For coating lines subject to the limitations of Section ~~218.204(c)(1)218.204(c)(2) of this Subpart~~, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
- F) For coating lines subject to the limitations of Section ~~218.204(g)(1)218.204(g)(2) or (h)(1)(h)(2) of this Subpart~~, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
- G) For coating lines subject to the limitations of Section 218.204(p) ~~of this Subpart~~, the weight of VOM per volume of coatings or solids, as applicable, for each coating, as applied each day on each coating line.
- H) For coating lines subject to the limitations of Section 218.204(q) ~~of this Subpart~~, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
- I) The daily-weighted average VOM content of all coatings as

applied on each coating line as defined in Section 218.104 ~~of this Part~~.

- 3) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating line mustshall notify the Agency in the following instances:

- A) Any record showing violation of Section 218.205 ~~mustof this Subpart shall~~ be reported by sending a copy of thesueh record to the Agency within 30 days ~~afterfollowing the occurrence of~~ the violation.
- B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.205 ~~of this Subpart~~ to Section 218.204 or ~~Section~~ 218.207 ~~of this Subpart~~, the owner or operator mustshall comply with all requirements of subsection (c)(1) or (e)(1) ~~of this Section~~, as applicable. Upon changing the method of compliance with this Subpart from Section 218.205 to Section 218.204 or ~~Section~~ 218.207 ~~of this Subpart~~, the owner or operator mustshall comply with all requirements of subsection (c) or (e) ~~of this Section~~, as applicable.

- e) Any owner or operator of a coating line subject to the limitations of Section 218.207 ~~of this Subpart~~ and complying ~~underby means of~~ Section 218.207(c), (d), (e), (f), (g), (h), (i), or (j) must(l), (m), or (n) of this Subpart shall comply with the following:

- 1) By a date consistent with Section 218.106 ~~of this Part~~, ~~or~~ upon initial start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 218.204 or ~~Section~~ 218.205 ~~of this Subpart~~ to Section 218.207 ~~of this Subpart~~, the owner or operator of the subject coating line mustshall perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject coating line will be in compliance with Section 218.207 ~~of this Subpart~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date.
- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line mustshall collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:

- 5089 A) The weight of VOM per volume of coating solids as applied each
 5090 day on each coating line, if complying ~~underpursuant to~~ Section
 5091 218.207(b)(2) ~~of this Subpart~~.
 5092
 5093 B) Control device monitoring data.
 5094
 5095 C) A log of operating time for the capture system, control device,
 5096 monitoring equipment, and the associated coating line.
 5097
 5098 D) A maintenance log for the capture system, control device, and
 5099 monitoring equipment detailing all routine and non-routine
 5100 maintenance performed, including dates and duration of any
 5101 outages.
 5102
 5103 3) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner
 5104 or operator of a subject coating line ~~mustshall~~ notify the Agency in the
 5105 following instances:
 5106
 5107 A) Any record showing violation of Section 218.207 ~~mustof this~~
 5108 ~~Subpart shall~~ be reported by sending a copy of ~~thesuch~~ record to
 5109 the Agency within 30 days ~~afterfollowing the occurrence of~~ the
 5110 violation.
 5111
 5112 B) At least 30 calendar days before changing the method of
 5113 compliance with this Subpart from Section 218.207 ~~of this Subpart~~
 5114 to Section 218.204 or ~~Section~~ 218.205 ~~of this Subpart~~, the owner
 5115 or operator ~~mustshall~~ comply with all requirements of subsection
 5116 (c)(1) or (d)(1) ~~of this Section~~, respectively. Upon changing the
 5117 method of compliance with this Subpart from Section 218.207 ~~of~~
 5118 ~~this Subpart~~ to Section 218.204 or ~~Section~~ 218.205 ~~of this Subpart~~,
 5119 the owner or operator ~~mustshall~~ comply with all requirements of
 5120 subsection (c) or (d) ~~of this Section~~, respectively.
 5121
 5122 f) Any owner or operator of a primer surfacer operation or topcoat operation, or
 5123 combined primer surfacer and topcoat operation, subject to the limitations of
 5124 Section ~~218.204(a)(2), (a)(3), or (a)(4) must218.204(a)(1)(B), (a)(1)(C), (a)(2)(B),~~
 5125 ~~(a)(2)(C), or (a)(2)(D) of this Subpart shall~~ comply with the following:
 5126
 5127 1) By a date consistent with Section 218.106 ~~of this Part~~, or upon initial start-
 5128 up of a new coating operation, the owner or operator of a subject coating
 5129 operation ~~mustshall~~ certify to the Agency that the operation will be in
 5130 compliance with Section 218.204 ~~of this Subpart~~ on and after a date
 5131 consistent with Section 218.106 ~~of this Part~~, or on and after the initial

start-up date. The certification ~~must~~shall include:

- A) The name and identification number of each coating operation that will comply ~~underby means of~~ Section ~~218.204(a)(2), (a)(3), or (a)(4)~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) ~~of this Subpart~~ and the name and identification number of each coating line in each coating operation.
- B) The name and identification number of each coating as applied on each coating line in the coating operation.
- C) The weight of VOM per volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
- D) The transfer efficiency and control efficiency measured for each coating line.
- E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.
- F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
- G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2) ~~of this Section~~.
- H) An example format for presenting the records required in subsection (f)(2) ~~of this Section~~.

- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating operation ~~must~~shall collect and record all of the following information each day for each operation and maintain the information at the source for ~~a period of~~ three years:

- A) All information necessary to demonstrate compliance with the topcoat protocol ~~referenced~~ in Section 218.105(b)(1)(B) and to calculate the daily-weighted average VOM emissions from the coating operations in kg/l (lbs/gal) of coating solids deposited in

~~compliance~~ ~~accordance~~ with the proposal submitted, and approved ~~under~~ ~~pursuant to~~ Section ~~218.204(a)(2), (a)(3), or (a)(4), 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ including:

- i) The name and identification number of each coating as applied on each coating operation.
 - ii) The weight of VOM per volume of each coating (~~excluding~~ ~~minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating operation.
 - B) If a control device or devices are used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment, and the associated coating operation; and a maintenance log for the capture system, control device, and monitoring equipment, detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after a date consistent with Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of a subject coating operation ~~must~~ ~~shall~~ determine and record the daily VOM emissions in kg/l (lbs/gal) of coating solids deposited in ~~compliance~~ ~~accordance~~ with the proposal submitted and approved ~~under~~ ~~pursuant to~~ Section ~~218.204(a)(2), (a)(3), or (a)(4) 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart~~ within 10 days ~~after~~ ~~from~~ the end of the month and maintain this information at the source for ~~a period of~~ three years.
- 4) On and after a date consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject coating operation ~~must~~ ~~shall~~ notify the Agency in the following instances:
 - A) Any record showing a violation of Section ~~218.204(a)(2), (a)(3), or (a)(4) must~~ ~~218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart shall~~ be reported by sending a copy of ~~the~~ ~~such~~ record to the Agency within 15 days ~~after~~ ~~from~~ the end of the month in which the violation occurred.
 - B) The owner or operator ~~must~~ ~~shall~~ notify the Agency of any change to the operation at least 30 days before the change is effected. The Agency ~~must~~ ~~shall~~ determine whether or not compliance testing is

required. If the Agency determines that compliance testing is required, then the owner or operator ~~must~~ shall submit a testing proposal to the Agency within 30 days and test within 30 days after ~~the Agency and USEPA approve~~ the approval of the proposal ~~by the Agency and USEPA.~~

- g) On and after a date consistent with Section 218.106(e) ~~of this Part~~, or on and after the initial startup date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.218 ~~must of this Subpart shall~~ comply with the following:
- 1) By May 1, 2011, or upon initial startup, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.218 ~~of this Subpart~~;
 - 2) Notify the Agency of any violation of Section 218.218 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the occurrence of~~ the violation; and
 - 3) Maintain at the source all records required by this subsection (g) for at least a minimum of three years from the date the document was created, and make those records available to the Agency upon request.
- h) On and after a date consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.219 ~~must of this Subpart shall~~ comply with the following:
- 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes:
 - A) A description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.219 ~~of this Subpart~~;
 - B) For sources subject to Section 218.219(a)(6), the work practices plan specified in that Section;
 - C) For sources subject to Section 218.219(b)(6), the application methods used to apply coatings on the subject coating line;

- 2) Notify the Agency of any violation of Section 218.219 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days ~~after following the occurrence of~~ the violation; and
- 3) Maintain at the source all records required by this subsection (h) for ~~at least a minimum of~~ three years from the date the document was created, and make those records available to the Agency upon request.
- i) On and after a date consistent with Section 218.106(f) ~~of this Part~~, or on and after the initial start-up date, whichever is later, the owner or operator of a flat wood paneling coating line subject to the requirements in Section 218.217 ~~must of this Subpart shall~~ comply with the following:
- 1) By August 1, 2010, or upon initial start-up, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.217(c) and (d) ~~of this Subpart~~; and
- 2) Notify the Agency of any violation of Section 218.217 ~~of this Subpart~~ by providing a description of the violation and copies of records documenting ~~the such~~ violation to the Agency within 30 days ~~after following the occurrence of~~ the violation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines

- a) On and after March 15, 1996, any owner or operator of a coating line subject to the limitations ~~set forth~~ in Section 218.204 ~~of this Subpart~~, except coating lines subject to the limitations in Section ~~218.204(a), (c)(1), (g)(1), (h)(1)~~ 218.204(a)(2), ~~(c)(2), (g)(2), (h)(2)~~, (p), or (q) ~~of this Subpart~~, and with coating lines in operation ~~before prior to~~ January 1, 1991 (pre-existing coating lines), may, for pre-existing coating lines only, elect to comply with the requirements of this Section; rather than ~~complying with~~ the applicable emission limitations ~~set forth~~ in Section 218.204, if an operational change of the type described ~~in this subsection below~~ has been made after January 1, 1991, to ~~at least one or more~~ pre-existing coating ~~linelines~~ at the source. An operational change occurs when a pre-existing coating line is replaced with a line using lower VOM coating for the same purpose as the replaced line (replacement line). A source electing to rely on this Section to demonstrate compliance with ~~the requirements of~~ this Subpart ~~must shall~~ operate ~~under pursuant to~~ federally enforceable permit conditions approved by the Agency and USEPA.

- b) An owner or operator of pre-existing coating lines subject to a VOM content limitation in Section 218.204 ~~of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart must establish, ~~using~~ by use of the equations in subsection (d) ~~of this Section~~, that the calculated actual daily VOM emissions from all participating coating lines, as defined in this subsection, are less than the calculated daily allowable VOM emissions from the same group of coating lines. For any pre-existing coating line to be aggregated for ~~the purposes of~~ Section 218.212, 218.213, or 218.214 ~~of this Subpart~~ ("participating coating lines"), the source must establish that:
- 1) All coatings applied on the participating coating line ~~must~~ shall, at all times, have a VOM content less than or equal to the applicable VOM content limitation for ~~the~~ such coating listed in Appendix H ~~of this Part~~; and
 - 2) On the date the source elects to rely on this Section to demonstrate compliance with this Subpart, all coatings applied on the participating coating line are not already in compliance with the VOM content limitation for ~~the~~ such coating effective on or after March 15, 1996; or the participating coating line is a replacement line, as defined in subsection (a) ~~of this Section~~ with an operational change occurring on or after January 1, 1991.
- c) ~~Despite~~ Notwithstanding subsection (a) ~~of this Section~~, any owner or operator of a coating line subject to the limitations ~~set forth~~ in Section 218.204, ~~of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart, may until December 31, 1999, also include as a participating coating line, ~~until December 31, 1999, only~~, any replacement line that satisfies all of the following conditions:
- 1) The replacement line is operated as a powder coating line;
 - 2) The replacement line was added after July 1, 1988; and
 - 3) The owner or operator also includes as a participating coating line at least one ~~or more~~ coating line ~~lines~~ that ~~satisfies~~ satisfy the criteria of a replacement line, as described in subsection (a) ~~of this Section~~.
- d) To demonstrate compliance with this Section, a source ~~must~~ shall establish the following:
- 1) An alternative daily emission limitation ~~must~~ shall be determined for all

participating coating lines at the source ~~under~~ according to subsection (d)(2) ~~of this Section~~. All participating coating lines ~~must~~ shall be factored in each day to demonstrate compliance. ~~If~~ Provided compliance is established ~~underpursuant to the requirements in~~ this subsection, nothing in this Section requires daily operation of each participating line. Actual daily emissions from all participating coating lines (E_d) ~~must~~ shall never exceed the alternative daily emission limitation (A_d) and ~~must~~ shall be calculated ~~using by use of~~ the following equation:

$$E_d = \sum_{i=1}^n V_i C_i$$

where:

E_d = Actual daily VOM emissions from participating coating lines in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied by all participating coating lines at the source;

V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM); and

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM).

- 2) The alternative daily emission limitation (A_d) ~~must~~ shall be determined for all participating coating lines at the source on a daily basis as follows:

$$A_d = A_i + A_p$$

where A_i and A_p are defined in subsections (d)(2)(A) and (d)(2)(B) ~~of this Section~~.

- A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A_i) ~~must~~ shall be determined for all ~~such~~ participating non-powder coating lines on a daily basis as follows:

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$$A_i = \sum_{i=1}^n V_i L_i \left(\frac{D_i - C_i}{D_i - L_i} \right)$$

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where:

A_i = The VOM emissions allowed for the day in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied in the participating coating lines;

C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);

D_i = The density of VOM in each coating applied. ~~To calculate~~~~For the purposes of calculating~~ A_i , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);

V_i = Volume of each coating applied for the day in units of l (gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and

L_i = The VOM emission limitation for each coating applied, as specified in Section 218.204 ~~of this Subpart~~, in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM).

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B) The portion of the alternative daily emission limitation for coating operations at a source using powdered coating (A_p) ~~must~~~~shall~~ be determined for all ~~such~~ participating powder coating lines at the source on a daily basis as follows:

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$$A_p = \sum_{h=1}^m \sum_{j=1}^n \frac{V_j L_j D_j K_h}{(D_j - L_j)}$$

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where:

- A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- h = Subscript denoting a specific powder coating line;
- j = Subscript denoting a specific powder coating applied;
- m = Total number of participating powder coating lines;
- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating;
- L_j = The VOM emission limitation for each coating applied, as specified in Section 218.204 ~~of this Subpart~~, in units of kg VOM/l (lbs VOM/gal) of coating (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM); and
- K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system that has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value ~~must~~~~shall~~ be determined by the source based on tests conducted and records maintained ~~under~~~~pursuant to the requirements of~~ Section 218.213 ~~of this Subpart~~ demonstrating the amount of coating solids consumed as both liquid powder. Test methods and recordkeeping requirements ~~must~~~~shall~~ be approved by the Agency and USEPA and ~~must~~~~shall~~ be ~~contained~~ in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
-) K cannot exceed 0.9 for non-recycled powder coating systems; or

-) K cannot exceed 2.0 for recycled powder coating systems.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines

Any owner or operator of a coating line that elects to comply by means of Section 218.212 ~~must of this Subpart shall~~ establish the following:

- a) By the date consistent with Section 218.210(f) ~~of this Subpart, or~~ upon initial start-up of a new coating line replacing a pre-existing coating line, as defined in Section 218.212 ~~of this Subpart~~, or upon changing the method of compliance for a pre-existing coating line from the requirements of Section 218.204 or ~~Section 218.207 of this Subpart~~ to the requirements of Section 218.212 ~~of this Subpart~~, the owner or operator of the source ~~must~~ shall certify to the Agency that each participating coating line, as determined in ~~compliance~~ accordance with Section 218.212 ~~of this Subpart~~, will be in compliance with Section 218.212 ~~of this Subpart~~ on and after a date consistent with Section 218.210(f) ~~of this Subpart~~, or on and after the initial start-up date of ~~the such~~ participating coating lines. ~~The Such~~ certification ~~must~~ shall also include:
 - 1) The name and identification number of each participating coating line;
 - 2) The name and identification number of each coating as applied on each participating coating line;
 - 3) The weight of VOM per volume of each coating and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted ~~from form~~ the definition of VOM) as applied each day on each participating coating line;
 - 4) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each participating coating line;
 - 5) The method by which the owner or operator will create and maintain records each day as required in subsection (b) ~~of this Section~~;
 - 6) An example of the format in which the records required in subsection (b) ~~of this Section~~ will be kept;

- 7) A statement that all coatings used on participating coating lines have a VOM content less than or equal to the applicable VOM limitation for ~~thesuch~~ coating ~~inset forth within~~ Appendix H ~~of this Part~~, and that all lines either:
- A) Underwent a change in operations incorporating a lower VOM coating on each applicable participating coating line after ~~the date of~~ January 1, 1991; or
 - B) Are not in compliance and continued compliance with the coating limitations in Section 218.204 ~~of this Subpart~~, compliance with which is required on or after March 15, 1996.
- 8) The method by which the owner or operator has calculated K, for the equation ~~contained~~ in Section 218.212(d)(2)(B) ~~of this Subpart~~, if applicable.
- b) On and after a date consistent with Section 218.210(f) ~~of this Subpart~~, or on and after the initial start-up date, the owner or operator of a source electing to comply with the requirements of this Subpart ~~under by means of~~ Section 218.212 ~~must of this Subpart shall~~ collect and record the following information on a daily basis for each participating coating line and maintain the information at the source for ~~a~~ ~~period of~~ three years:
- 1) The name and identification number of each coating as applied on each participating coating line;
 - 2) The weight of VOM per volume and the volume of each coating (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied on each participating coating line on a daily basis; and
 - 3) The daily weighted average VOM content of all coatings as applied on each coating line as defined at 35 Ill. Adm. Code 211.1230.
- c) On and after a date consistent with Section 218.210(f) ~~of this Subpart~~, the owner or operator of participating coating lines ~~must shall~~:
- 1) Notify the Agency within 30 days ~~after following an occurrence of~~ a violation of Section 218.212 ~~of this Subpart~~; and
 - 2) Send to the Agency any record showing a violation of Section 218.212 ~~of~~

~~this Subpart~~ within 30 days ~~after following the occurrence of~~ a violation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.214 Changing Compliance Methods

- a) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.212 ~~of this Subpart~~ to Section 218.204 or ~~Section 218.207 of this Subpart~~, the owner or operator of a source relying on Section 218.212 to demonstrate compliance with this Subpart for at least one ~~or more~~ pre-existing coating ~~line must~~lines shall comply with all requirements of Section 218.211(c)(1) or (e)(1) ~~of this Subpart~~, respectively.
- b) Upon changing the method of compliance with this Subpart from Section 218.212 to Section 218.204 or Section 218.207 ~~of this Subpart~~, the owner or operator of a source must~~shall~~ comply with the requirements of Section 218.211(c) or (e) ~~of this Subpart~~, respectively.
- c) The owner or operator must~~shall~~ certify that all remaining participating coating lines, if any, comply and continue to comply with the requirements of Section 218.212 ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.215 Wood Furniture Coating Averaging Approach

- a) On and after March 15, 1998, any owner or operator of a source subject to the limitations of Section 218.204(l) ~~of this Subpart~~ may elect to comply with the requirements of this Section rather than ~~complying with~~ the applicable emission limitations ~~set forth~~ in Section 218.204(l)(1)(A) ~~218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~. The source must continue to comply with the limitations ~~set forth~~ in Section 218.204(l)(2) ~~218.204(l)(3)~~ and (3) ~~(4)~~ ~~of this Subpart~~. A source electing to rely on this Section to demonstrate compliance with the requirements of this Subpart must~~shall~~ operate under~~pursuant to~~ federally enforceable permit conditions approved by the Agency and USEPA.
- b) An owner or operator of a source subject to the limitations of Section 218.204(l) ~~of this Subpart~~ and electing to rely on this Section to demonstrate compliance with this Subpart must establish using, by use of subsection (b)(1) or (b)(2) ~~of this Section~~, that, on a daily basis, actual emissions from the affected source are 90% or less ~~than or equal to ninety percent~~ of the allowable emissions, that is $V_a \leq V_p$:
 - 1) Option I:

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5515

$$A) \quad V_a = \sum_{i=1}^n (ER_{TC_i} \times TC_i); \text{ and}$$

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$$B) \quad V_p = 0.9 \times \sum_{i=1}^n (0.8 \times TC_i)$$

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5519

2) Option II:

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$$A) \quad V_a = \sum_{i=1}^n [(ER_{TC_i} \times TC_i) + (ER_{SE_i} \times SE_i) + (ER_{WC_i} \times WC_i) + \\ (ER_{PC_i} \times PC_i) + (ER_{ST_i} \times ST_i)]; \text{ and}$$

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$$B) \quad V_p = 0.9 \times \sum_{i=1}^n [(1.8 \times TC_i) + (1.9 \times SE_i) + (9.0 \times WC_i) + \\ (1.2 \times PC_i) + (0.791 \times ST_i)]$$

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5526

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5528

where:

V_a = Actual VOM emissions from the source;

V_p = 90% of the allowable VOM emissions from the source;

n = Number of different wood furniture coatings as applied each day on each coating line;

i = Subscript denoting an individual coating;

TC_i = kilograms of solids in topcoat "i" used;

SE_i = kilograms of solids in sealer "i" used;

WC_i = kilograms of solids in wash coat "i" used;

PC_i = kilograms of solids in non-topcoat pigmented coat "i" used;

ST_i = liters of stain "i" used;

ER_{TC_i} = VOM content of topcoat "i" in kg VOM/kg solids, as applied;

ER_{SE_i} = VOM content of sealer "i" in kg VOM/kg solids, as applied;

ER_{WCi} = VOM content of washcoat "i" in kg VOM/kg solids, as applied;

ER_{PCi} = VOM content of non-topcoat pigmented coat "i" in kg VOM/kg solids, as applied;

ER_{STi} = VOM content of stain "i" in kg VOM/liter (kg/l), as applied;

- 5529
5530 c) Within ~~the structure of~~ the source's federally enforceable permit conditions, an
5531 owner or operator of a source electing to rely on this Section to demonstrate
5532 compliance with this Subpart ~~must~~shall provide to the Agency:
5533
5534 1) The name and identification number of each participating coating line;
5535
5536 2) The name and identification number of each coating as applied on each
5537 participating coating line;
5538
5539 3) A summary of how averaging will be used to meet the emission
5540 limitations;
5541
5542 4) Documentation that $V_a \leq V_p$, as calculated in subsection (b)(1) or (2) ~~of~~
5543 ~~this Section~~;
5544
5545 5) A description of which types of coating materials will be included in the
5546 source's averaging program, which may include stains, basecoats,
5547 washcoats, sealers, and topcoats. Coating materials that are applied using
5548 continuous coaters may be used in an averaging program only if the source
5549 can determine the amount of coating used each day;
5550
5551 6) A description of methods and procedures for quantifying emissions on a
5552 daily basis, including methods to determine the VOM content of each
5553 coating and the daily usage of each coating; and
5554
5555 7) A summary of the monitoring, recordkeeping, and reporting procedures
5556 that will be used to demonstrate daily compliance with the
5557 ~~options inequalities~~ in subsections (b)(1) and (2) ~~of this Section~~. These
5558 procedures ~~must allow~~shall be structured such that the Agency and the
5559 owner or operator of the source ~~to~~can determine the source's compliance
5560 status for any given day.
5561
5562 d) On and after March 15, 1998, or on and after the initial start-up date, the owner or
5563 operator of a source electing to rely on this Section to comply with the
5564 requirements of this Subpart ~~must~~shall, for each coating line relying on this
5565 Section, collect and record the following information on a daily basis and

maintain the information at the source for ~~a period of~~ three years:

- 1) The name and identification number of each coating as applied on the coating line;
 - 2) The weight of VOM per weight of solids (kg VOM/kg solids) and the weight of solids (kg) of each coating as applied on each coating line on a daily basis;
 - 3) Certified product data sheets for each coating; and
 - 4) The calculations showing the source has met the conditions of the ~~options~~inequalities in subsection (b)(1) or (2) ~~of this Section~~.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart must~~shall~~:
- 1) Notify the Agency within 30 calendar days ~~after following an occurrence of~~ a violation of this Section; and
 - 2) Send ~~to~~ the Agency any record showing a violation of this Section within 30 calendar days ~~after following the occurrence of~~ a violation.
- f) At least 30 calendar days before changing the method of compliance with this Subpart from ~~reliance on~~ this Section to ~~reliance on~~ Section 218.204(l)(1)(A)~~218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines must~~shall~~:
- 1) Comply with all requirements of Section 218.211(c)(1) ~~of this Subpart~~; and
 - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.216 Wood Furniture Coating Add-On Control Use

The owner or operator of a source subject to ~~the requirements of~~ Section 218.204(l)(1)~~218.204(l)(2) of this Subpart~~ may choose to comply with those limitations under~~by~~

relying on Section ~~218.204(1)(1)(D)~~218.204(1)(2)(D) of this Subpart if the owner or operator meets all of the following requirements ~~are met~~:

- a) For each coating applied, determine the overall control efficiency needed to demonstrate compliance using the following equation:

$$R = \left[\frac{(C - L)}{C} \right] \times 100$$

where:

R = the necessary overall capture and control efficiency of the control system, as a percentage;

C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;

L = the emission limitation for that coating ~~under, as given in~~ Section ~~218.204(1)(1)(B)~~218.204(1)(2)(B) of this Subpart

- b) Calculate the equivalent overall capture and control efficiency of the control device using the procedures of Section 218.105(c), (d), and (e) ~~of this Part~~.
- c) Demonstrate that the equivalent overall capture and control efficiency calculated using the procedures in Section 218.105(c), (d), and (e) ~~of this Part~~ is equal to or greater than the largest value of R calculated for each coating by the equation in subsection (a) ~~of this Section~~.
- d) Install, calibrate, operate, and maintain the applicable monitoring equipment for the control device ~~under as specified in~~ Section 218.105(d) ~~of this Part~~.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for ~~a period of~~ three years:
 - 1) The name and identification number of each coating as applied on the coating line;
 - 2) The weight of VOM per weight of solids (kg VOM/kg solids) of each coating as applied on each coating line on a daily basis;

- 3) Certified product data sheets for each coating;
 - 4) Control device monitoring data;
 - 5) A log of operating time for the capture system, control device, monitoring equipment, and the associated coating line; and
 - 6) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- f) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart ~~must~~shall:
- 1) Notify the Agency within 30 calendar days ~~after following an occurrence of~~ a violation of this Section; and
 - 2) Send ~~to~~ the Agency any record showing a violation of this Section within 30 calendar days ~~after following the occurrence of~~ a violation.
- g) At least 30 calendar days before changing the method of compliance with this Subpart from ~~reliance on~~ this Section to ~~reliance on~~ Section ~~218.204(l)(1)(A)218.204(l)(2)(A)~~ or (B) ~~of this Subpart~~, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for ~~at least one or more~~ wood furniture coating ~~line must~~lines shall:
- 1) Comply with all requirements of Section 218.211(c)(1) ~~of this Subpart~~; and
 - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.217 Wood Furniture Coating and Flat Wood Paneling Coating Work Practice Standards

- a) Spray booth cleaning. Each owner or operator of a source subject to the limitations of Section 218.204(l) ~~must of this Subpart shall~~ not use compounds containing more than ~~8.0%8.0 percent~~, by weight, of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures,

and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished ~~by replacing, that is,~~ the spray booth coating or other material used to cover the booth ~~is being replaced,~~ the affected source ~~must~~ shall use ~~no more than~~ 1.0 gallon or less of organic solvent to prepare the booth ~~before prior to~~ applying the booth coating.

- b) Application equipment requirements. ~~An~~ No owner or operator of a source subject to the limitations of Section 218.204(l) ~~must not of this Subpart shall~~ use conventional air spray guns to apply coating materials to wood furniture under the circumstances ~~specified~~ in subsections (b)(1) through (4) ~~of this Section~~:

- 1) To apply coating materials that have a VOM content ~~of no greater than~~ 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids) or less, as applied;
- 2) For repair coating under the following circumstances:
 - A) The coating materials are applied after ~~completing the completion of~~ the coating operation; or
 - B) The coating materials are applied after the stain and before any other type of coating material is applied, and the coating materials are applied from a container ~~with that has~~ a volume of ~~no more than~~ 2.0 gallons or less;
- 3) If the spray gun is aimed and triggered automatically, rather than manually; or
- 4) If emissions from the finishing application station are directed to a control device ~~under pursuant to~~ Section 218.216 ~~of this Subpart~~

- c) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 218.204(l) or (p) ~~must of this Subpart shall~~:

- 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
- 2) Pump or drain all organic solvent used for line cleaning into closed containers;
- 3) Collect all organic solvent used to clean spray guns in closed containers; and
- 4) Control emissions from washoff operations by using closed tanks.

- d) Additional cleaning and storage requirements for flat wood paneling coating lines. Every owner or operator of a source subject to the limitations of Section 218.204(p) ~~must of this Subpart shall:~~

- 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials and clean up spills immediately;
- 2) Minimize emissions of VOM during the cleaning of storage, mixing, and conveying equipment;
- 3) Keep mixing vessels that contain VOM-containing coatings and other VOM-containing materials closed except when specifically in use;
- 4) On and after January 1, 2012, convey VOM-containing coatings, thinners, and cleaning materials in closed containers or pipes.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings

- a) On and after May 1, 2011, every owner or operator of a source subject to ~~the requirements of~~ Section 218.204(c) ~~must of this Subpart shall:~~
- 1) Store all VOM-containing cleaning materials in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing cleaning materials;
 - 4) Convey VOM-containing cleaning materials from one location to another in closed containers or pipes; and
 - 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.
- b) On and after May 1, 2011, every owner or operator of a source subject to ~~the requirements of~~ Section 218.204(g) or 218.204(h) ~~must of this Subpart shall:~~

- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
- 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing those materials;
- 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;
- 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
- 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment; and
- 6) Apply all coatings using at least one ~~or more~~ of the following application methods:
 - A) Electrostatic spray;
 - B) High volume low pressure (HVLN) spray;
 - C) Flow coating. For ~~the purposes of~~ this subsection (b), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For ~~purposes of~~ this subsection (b), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - F) Brush coating, if subject to the requirements of Section 218.204(h); or

- G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if ~~thesueh~~ method is approved in writing by the Agency.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings, and Miscellaneous Metal and Plastic Parts Coatings

- a) Every owner or operator of a coating line subject to the requirements of Section ~~218.204(a) must~~218.204(a)(2) of this Subpart shall:
- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, and coating-related waste materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, and coating-related waste materials;
 - 4) Convey VOM-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes;
 - 5) Minimize VOM emissions from cleaning of storage, mixing, and conveying equipment;
 - 6) Develop and implement a work practice plan to minimize VOM emissions from cleaning and ~~from~~ purging ~~of~~ equipment associated with coating lines subject to the limitations in Section ~~218.204(a)~~218.204(a)(2). The plan ~~must~~shall specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed in this subsection (a)(6) are minimized. If the owner or operator of the subject coating line has already implemented a work practice plan for the coating line ~~underpursuant to~~ Subpart IIII of 40 CFR 63, incorporated by reference in Section 218.112 ~~of this Part~~, the owner or operator may revise the plan as necessary to comply with this Section.
- A) Vehicle body wiping;
- B) Coating line purging;

- C) Flushing of coating systems;
- D) Cleaning of spray booth grates, walls, and equipment; and
- F) Cleaning of external spray booth areas.

b) Except ~~underas provided in~~ subsection (c) ~~of this Section~~, every owner or operator of a coating line described in Section 218.204(q) ~~must of this Subpart shall~~:

- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
- 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing these materials;
- 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials;
- 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
- 5) Minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers; and
- 6) Apply all coatings using at least one ~~or more~~ of the following application methods:
 - A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For ~~the purposes of~~ this subsection (b)(6)(C), "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;

- E) Dip coating, including electrodeposition. For ~~purposes of~~ this subsection (b)(6)(E), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
- F) Airless spray;
- G) Air-assisted airless spray; or
- H) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.
- c) ~~Despite~~Notwithstanding subsection (b) ~~of this Section~~, the application method limitations in subsection (b)(6) ~~do shall~~ not apply to ~~the following~~:
- 1) Coating lines complying with Section ~~218.207(j)(1)~~218.207(n)(1);
 - 2) For metal parts and products coating operations: touch-up coatings, repair coatings, textured finishes, stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating;
 - 3) For pleasure craft surface coating operations, ~~÷~~ extreme high gloss coatings;
 - 4) For plastic parts and products coating operations, ~~÷~~ airbrush operations using 18.9 ~~liters~~ (5 ~~galgallons~~) or less of coating per year; and
 - 5) For ammunition sealant operations, ~~÷~~ cap sealants and mouth waterproofing sealants.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART G: USE OF ORGANIC MATERIAL

Section 218.301 Use of Organic Material

~~A~~No person ~~must not shall~~ cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except under as provided in

Sections 218.302, 218.303, and 218.304, ~~of this Part and the following exception:~~ If no odor nuisance exists, then the limitation of this Subpart ~~applies~~shall apply only to photochemically reactive material.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.302 Alternative Standard

Emissions of organic material ~~exceeding in excess of~~ those permitted by Section 218.301 ~~of this Part~~ are allowable if ~~the such~~ emissions are controlled by one of the following methods:

- a) Flame, thermal, or catalytic incineration ~~that so as~~ either ~~reduce to reduce such~~ emissions to 10 ppm equivalent methane (molecular weight 16) or less; or converts 85% to convert 85 percent of the hydrocarbons to carbon dioxide and water; ~~or~~
- b) A vapor recovery system which adsorbs and/or condenses or both at least ~~85% 85 percent~~ of the total uncontrolled organic material that would otherwise be emitted to the atmosphere; or;
- c) Any other air pollution control equipment ~~that is approved by the Agency and approved by the USEPA as a SIP revision~~ capable of reducing by at least 85% 85 percent or more the uncontrolled organic material that would be otherwise emitted to the atmosphere and is approved by the Agency and approved by USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.303 Fuel Combustion Emission Units

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to fuel combustion emission units.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.304 Operations with Compliance Program

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to any owner, operator, user, or manufacturer of paint, varnish, lacquer, coatings, or printing ink whose compliance program and project completion schedule, as required by 35 Ill. Adm. Code 201, provided for ~~reducing the reduction of~~ organic material used in ~~the such~~ process to 20% 20 percent or less of total volume by May 30, 1977.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART H: PRINTING AND PUBLISHING

Section 218.401 Flexographic and Rotogravure Printing

- a) ~~An~~No owner or operator of a subject flexographic or rotogravure printing line ~~must not~~shall apply at any time any coating or ink ~~if~~unless the VOM content ~~exceeds~~does not exceed the limitation ~~specified~~ in ~~either~~ subsection (a)(1) or (a)(2), as applicable. Compliance with this Section must be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified~~ in Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.404(c) ~~of this Part~~. As an alternative to compliance with this subsection, a subject printing line may meet the requirements of subsection (b) or (c).

~~1)~~ ~~Prior to August 1, 2010, either:~~

- ~~A~~ ~~Forty percent VOM by volume of the coating and ink (minus water and any compounds which are specifically exempted from the definition of VOM); or~~
- ~~B)~~ ~~Twenty-five percent VOM by volume of the volatile content in the coating and ink; and~~

~~2)~~ ~~On and after August 1, 2010:~~

- ~~1A)~~ For owners ~~or~~ operators of flexographic or rotogravure printing lines that do not print flexible packaging, either:

~~Ai)~~ ~~40%~~Forty percent VOM by volume of the coating and ink (~~excluding~~minus water and any compounds that are specifically exempted from the definition of VOM); or

~~Bii)~~ ~~20%~~Twenty-five percent VOM by volume of the volatile content in the coating and ink;

- ~~2B)~~ For owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, either:

~~Ai)~~ 0.8 kg VOM/kg (0.8 lbs VOM/lb) solids applied; or

~~Bii~~ 0.16 kg VOM/kg (0.16 lbs VOM/lb) inks and coatings applied.

b) Weighted Averaging Alternative

1) ~~Before~~~~Prior to~~ August 1, 2010, ~~an~~~~no~~ owner or operator of a subject flexographic or rotogravure printing line ~~must not~~~~shall~~ apply coatings or inks on the subject printing line ~~if~~~~unless~~ the weighted average, by volume, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~~~does not exceed~~ the limitation ~~specified~~ in either subsection (a)(1)(A) (as determined by subsection (b)(1)(A)) or subsection (a)(1)(B)) (as determined by subsection (b)(1)(B)). Compliance with this subsection must be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified~~ in Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.404(d) ~~of this Part~~.

A) The following equation ~~must~~~~shall~~ be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified~~ in subsection (a)(1)(A) ~~or (b)(2) of this Section~~.

$$VOM_{(i)(A)} = \frac{\sum_{i=1}^n C_i L_i (V_{si} + V_{VOMi})}{\sum_{i=1}^n L_i (V_{si} + V_{VOMi})}$$

where:

$VOM_{(i)(A)}$ = The weighted average VOM content in units of percent VOM by volume of all coatings and inks (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM) used each day;

i = Subscript denoting a specific coating or ink as applied;

n = The number of different coatings ~~or~~~~and~~ or inks ~~or both~~ as applied each day on a printing line;

- C_i = The VOM content in units of percent VOM by volume of each coating or ink as applied (~~excluding~~~~minus~~ water and any compounds that are specifically exempted from the definition of VOM);
- L_i = The liquid volume of each coating or ink as applied in units of l (gal);
- V_{si} = The volume fraction of solids in each coating or ink as applied; and
- V_{VOMi} = The volume fraction of VOM in each coating or ink as applied.

B) The following equation ~~must~~~~shall~~ be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified~~ in subsection (a)(1)(B) ~~or (b)(2) of this Section~~.

$$VOM_{(i)(B)} = \frac{\sum_{i=1}^n C_i L_i V_{VOMi}}{\sum_{i=1}^n L_i V_{VOMi}}$$

where:

- $VOM_{(i)(B)}$ = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;
- i = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings ~~or~~~~and~~ inks ~~or both~~ as applied each day on each printing line;
- C_i = The VOM content in units of percent VOM by volume of the volatile matter in each coating or ink as applied;
- L_i = The liquid volume of each coating or ink as applied in units of l (gal) and
- V_{VOMi} = The volume fraction of volatile matter in each coating or ink as applied.

- 2) ~~An~~On and after August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line that does not print flexible packaging ~~must not~~shall apply coatings or inks on the subject printing line ~~if~~unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~does not exceed the limitation ~~specified in either~~ subsection (a)(1)(A)(a)(2)(A)(i) (calculated in ~~compliance~~accordance with the equation in subsection (b)(1)(A)) or (a)(1)(B)(a)(2)(A)(ii) (calculated in ~~compliance~~accordance with the equation in subsection (b)(1)(B)) ~~of this Section~~. Compliance with this subsection (b)(2) ~~must~~shall be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified in~~ Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified in~~ Section 218.404(d) ~~of this Subpart~~.
- 3) ~~An~~On and after August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, ~~must not~~shall apply coatings or inks on the subject printing line ~~if~~unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line ~~exceeds~~does not exceed the limitation ~~specified in either~~ subsection (a)(2)(A)(a)(2)(B)(i) (calculated in ~~compliance~~accordance with the equation in subsection (b)(3)(A)) or subsection (a)(2)(B)(ii) (calculated in ~~compliance~~accordance with the equation in subsection (b)(3)(B)) ~~of this Section~~. Compliance with this subsection (b)(3) ~~must~~shall be demonstrated through the applicable coating or ink analysis test methods and procedures ~~specified in~~ Section 218.105(a) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified in~~ Section 218.404(d) ~~of this Subpart~~.
- A) The following equation ~~must~~shall be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified in~~ subsection (a)(2)(A)(a)(2)(B)(i) ~~of this Section~~.

$$VOM_{(A)} = \frac{\sum_{i=1}^n C_i W_i}{\sum_{i=1}^n W_i}$$

where:

$VOM_{(A)}$ = The weighted average VOM content in units of kg VOM per kg (lbs VOM per lb) solids of all coatings and inks used each day;

i = Subscript denoting a specific coating or ink as applied;

n = The number of different coatings ~~or~~ and/or inks or both as applied each day on a printing line;

C_i = The VOM content in units of kg VOM per kg (lbs VOM per lb) solids of each coating or ink as applied;

W_i = Weight of solids in each coating or ink, as applied, in units of kg (lb).

B) The following equation ~~must~~ shall be used to determine if the weighted average VOM content of all coatings and inks as applied each day on the subject printing line exceeds the limitation ~~specified in subsection (a)(2)(B)(ii) of this Section.~~

$$VOM_{(B)} = \frac{\sum_{i=1}^n C_i L_i}{\sum_{i=1}^n L_i}$$

where:

$VOM_{(B)}$ = The weighted average VOM content in units of kg (lbs) VOM per weight in kg (lbs) of all coatings or inks as applied each day;

i = Subscript denoting a specific coating or ink as applied;

n = The number of different coatings ~~or~~ and/or inks or both as applied each day on each printing line;

C_i = The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;

L_i = The weight of each coating or ink, as applied, in units of kg (lb).

c) Capture System and Control Device Requirements

- ~~1) Prior to August 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line equipped with a capture system and control device shall operate the subject printing line unless the owner or operator meets the requirements in subsection (c)(1)(A)(i), (c)(1)(A)(ii), or (c)(1)(A)(iii), as well as subsections (c)(1)(D), (c)(5), and (c)(6).~~

~~A One of:~~

- ~~i) A carbon adsorption system is used that reduces the captured VOM emissions by at least 90 percent by weight; or~~
- ~~ii) An incineration system is used that reduces the captured VOM emissions by at least 90 percent by weight; or~~
- ~~iii) An alternative VOM emission reduction system is used that is demonstrated to have at least a 90 percent control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and~~

~~B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:~~

- ~~i) 75 percent where a publication rotogravure printing line is employed; or~~
- ~~ii) 65 percent where a packaging rotogravure printing line is employed; or~~
- ~~iii) 60 percent where a flexographic printing line is employed;~~

- 12) An~~On and after August 1, 2010, no~~ owner or operator of a flexographic or rotogravure printing line that does not print flexible packaging and that is equipped with a capture system and control device ~~must not~~shall operate the subject printing line unless the owner or operator meets the requirements in subsection (c)(1)(A)(i), (c)(1)(A)(ii), or (c)(1)(A)(iii) and; ~~as well as~~ subsections (c)(1)(B), (c)(4)(e)(5), and (c)(5);(c)(6) of this ~~Section;~~

A) One of:

- i) A carbon adsorption system that reduces the captured VOM emissions by at least 90% by weight;
- ii) An incineration system that reduces the captured VOM emissions by at least 90% by weight;
- iii) An alternative VOM emission reduction system that is demonstrated to have at least a 90% control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and

B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:

- i) 75% where a publication rotogravure printing line is employed;
- ii) 65% where a packaging rotogravure printing line is employed; or
- iii) 60% percent where a flexographic printing line is employed.

23) An ~~On and after August 1, 2010, no~~ owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and that is equipped with a capture system and control device must not shall operate the subject printing line unless the owner or operator meets the requirements in subsections (c)(4)(e)(5) and (c)(5)(e)(6) of this Section and the capture system and control device provides an overall reduction in VOM emissions of at least:

- A) 65%65 percent in cases in which a subject printing line was first constructed at the subject source beforeprior to March 14, 1995, and usesutilizes a control device that was first constructed at the subject source beforeprior to January 1, 2010; ~~or~~
- B) 70%70 percent when a subject printing line was first constructed at the subject source beforeprior to March 14, 1995, and usesutilizes a control device that was first constructed at the subject source on or after January 1, 2010; ~~or~~

C) ~~75%75 percent~~ when a subject printing line was first constructed at the subject source on or after March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source ~~beforeprior to~~ January 1, 2010; or

D) ~~80%80 percent~~ when a subject printing line was first constructed at the subject source on or after March 14, 1995, and ~~uses~~utilizes a control device that was first constructed at the subject source on or after January 1, 2010.;

34) ~~TheOn and after August 1, 2010, the~~ owner or operator of a flexographic or rotogravure printing line that prints flexible packaging and non-flexible packaging on the same line and that is equipped with a control device ~~is~~shall be subject to the requirements of ~~either~~ subsection (c)(1)(B) or ~~(c)(2)(e)(3) of this Section~~, whichever is more stringent, ~~and as well as~~ subsections ~~(c)(4) and (c)(5)~~ (c)(4) and (c)(5); ~~and (e)(6) of this Section;~~

45) The control device is equipped with the applicable monitoring equipment ~~specified in Section 218.105(d)(2) of this Part and~~, except ~~underas~~ provided in Section 218.105(d)(3) ~~of this Part~~, the monitoring equipment is installed, calibrated, operated, and maintained according to vendor specifications at all times the control device is in use. ~~and~~

56) The capture system and control device are operated at all times when the subject printing line is ~~operatingin operation~~. The owner or operator ~~must~~shall demonstrate compliance with this subsection by using the applicable capture system and control device test methods and procedures ~~specified in Section 218.105(c) through Section 218.105(f) of this Part and~~ by complying with the recordkeeping and reporting requirements ~~specified in Section 218.404(e) of this Part~~. The owner or operator of a printing line subject to the requirements in subsection ~~(c)(1)(e)(1)(B) or (e)(2) of this Section~~ that performed all testing necessary to demonstrate compliance with subsection (c)(1)(B) ~~beforeprior to~~ August 1, 2010, is not required to retest ~~underpursuant to~~ this subsection ~~(c)(5)(e)(6)~~. The owner or operator of a printing line subject to the requirements in subsection ~~(c)(2)~~ must(e)(3) shall perform testing in compliance with this subsection ~~(c)(5)(e)(6)~~, even if the owner or operator already performed ~~thesuch~~ testing ~~beforeprior to~~ August 1, 2010, unless the ~~testing meets thefollowing~~ conditions in subsections (c)(5)(A) through (E)are met. Nothing in this subsection ~~(c)(5)(e)(6)~~, however, ~~limitsshall limit~~ the Agency's ability to require that the owner or operator perform testing ~~underpursuant to~~ 35 Ill. Adm. Code 201.282:

- A) On or after May 1, 2000, the owner or operator of the subject printing line performed all testing necessary to demonstrate compliance with subsection (c)(1)(B);
 - B) ~~The~~Such testing also demonstrated an overall control efficiency equal to or greater than the applicable control efficiency requirements in subsection ~~(c)(2)(e)(3)~~;
 - C) The owner or operator submitted the results of ~~thesueh~~ tests to the Agency, and the Agency did not reject the tests ~~were not rejected by the Agency~~;
 - D) The same capture system and control device subject to the tests ~~referenced~~ in subsection ~~(c)(5)(A)(e)(6)(A) of this Section~~ is still being used by the subject printing line; and
 - E) The owner or operator complies with all recordkeeping and reporting requirements in Section 218.404(e)(1)(B).
- d) ~~An~~No owner or operator of subject flexographic or rotogravure printing lines that print flexible packaging or print flexible packaging and non-flexible packaging on the same line ~~must not~~shall cause or allow VOM containing cleaning materials, including used cleaning towels, associated with the subject flexographic or rotogravure printing lines to be kept, stored, or disposed of in any manner other than in closed containers, or conveyed from one location to another in any manner other than in closed containers or pipes, except when specifically in use.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.402 Applicability

- a) Except as otherwise provided in Section 218.401, the limitations of Section 218.401 ~~of this Subpart~~ apply to all flexographic and rotogravure printing lines at a subject source. Sources with flexographic ~~or~~and/or rotogravure printing lines or both are subject sources if:
 - 1) Total maximum theoretical emissions of VOM from all flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at the source ever exceed 90.7 Mg (100 tons) per calendar year, and the flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at

the source are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP revision; or

- 2) The flexographic and rotogravure printing lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) at the source have a combined potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year.

- b) The limitations of Section 218.401(d) ~~shall~~ apply to all owners or operators of flexographic or rotogravure printing lines that print flexible packaging, or that print flexible packaging and non-flexible packaging on the same line, at a source where the combined emissions of VOM from all flexographic and rotogravure printing lines total at least 6.8 kg/day (15 lbs/day) ~~or more~~ (including solvents used for cleanup operations associated with flexographic and rotogravure printing lines) ~~without, in the absence of~~ air pollution control equipment.

- c) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet ~~Subpart G (Section 218.301 or 218.302 of this Part)~~. Flexographic and rotogravure printing lines exempt from this Subpart are subject to ~~Subpart G (Section 218.301 or 218.302 of this Part)~~. Rotogravure or flexographic equipment used for both roll printing and paper coating is subject to this Subpart.

- d) Once subject to the limitations of Section 218.401, a flexographic or rotogravure printing line is always subject to the limitations of Section 218.401 ~~of this Part~~.

- e) Any owner or operator of any flexographic or rotogravure printing line that is exempt from any of the limitations of Section 218.401 ~~of this Part~~ because of the criteria in this Section is subject to the recordkeeping and reporting requirements ~~specified in Section 218.404(b) and (f) of this Part~~, as applicable.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.403 Compliance Schedule

Every owner or operator of a flexographic ~~or and/or~~ rotogravure printing line ~~or both must~~ shall comply with the applicable requirements of Section 218.401 and Section 218.404 according to ~~this Part in accordance with~~ the applicable compliance schedule or schedules ~~specified in~~ subsection (a), (b), (c), or (d), ~~(e), (f), or (g)~~:

- a) ~~An~~ owner or operator of a flexographic or rotogravure printing line that is

exempt from the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) ~~must not of this Part shall~~ operate ~~that said~~ printing line on or after a date consistent with Section 218.106 ~~of this Part~~, unless the owner or operator has complied with, and continues to comply with, Section 218.404(b) ~~of this Part~~.

b) ~~No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(a)(1) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.401(a)(1) and Section 218.404(c) of this Part.~~

e) ~~No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(b)(1) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.401(b)(1) and Section 218.404(d) of this Part.~~

d) ~~No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(c)(1)(B) of this Part shall operate said printing line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, the applicable provisions in Sections 218.401(c) and 218.404(e) of this Part.~~

be) ~~An~~ ~~No~~ owner or operator of a flexographic or rotogravure printing line complying ~~under by means of~~ Section ~~218.401(a) 218.401(a)(2), (b)(2), or (b)(3) or complying by means of~~ Section ~~218.401(c)(1), 218.401(c)(2), or (c)(3) must not, or (c)(4), shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section ~~218.401(a) 218.401(a)(2), (b)(2), or (b)(3), and Section 218.401(c), as applicable, and all applicable provisions in Section 218.404 of this Part.~~

cf) ~~An~~ ~~No~~ owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, ~~must not shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has complied with, and continues to comply with ~~Sections, Section~~ 218.401(d) and ~~Section~~ 218.404(g) ~~of this Part~~.

dg) ~~An~~ ~~No~~ owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, and that is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) ~~must not of this Part shall~~ operate the printing line on or after August 1, 2010, unless the owner or operator has

complied with, and continues to comply with ~~Sections, Section~~ 218.402(b) and ~~Section 218.404(f) of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.404 Recordkeeping and Reporting

- a) The VOM content of each coating and ink and the efficiency of each capture system and control device ~~must~~shall be determined by the applicable test methods and procedures ~~specified~~ in Section 218.105 ~~of this Part~~ to establish the records required under this Section.
- b) Any owner or operator of a printing line which is exempted from any of the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) ~~must of this Part shall~~ comply with the following:
 - 1) By a date consistent with Section 218.106 ~~of this Part~~ or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, by January 1, 2012, the owner or operator of a flexographic or rotogravure printing line to which this subsection (b) ~~applies must~~is ~~applicable shall~~ certify to the Agency that the flexographic and rotogravure printing line is exempt under ~~the provisions of~~ Section 218.402(a) ~~of this Part~~. ~~The Such~~ certification ~~must~~shall include:
 - A) A declaration that the flexographic and rotogravure printing line is exempt from the limitations of the criteria in Section 218.401 ~~of this Part~~ because of Section 218.402(a) ~~of this Part~~; and
 - B) Calculations that demonstrate that the combined potential to emit of all flexographic and rotogravure printing lines at the source never equals or exceeds 22.7 Mg (25 tons) of VOM per year, and that total maximum theoretical emissions of VOM from all flexographic and rotogravure printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before ~~applying the application of~~ capture systems and control devices. Total maximum theoretical emissions of VOM for a flexographic or rotogravure printing source is the sum of maximum theoretical emissions of VOM from each flexographic and rotogravure printing line at the source. The following equation ~~must~~shall be used to calculate total maximum theoretical emissions of VOM per calendar year before ~~applying the application of~~ capture systems and control devices for each flexographic and rotogravure printing

line at the source:

$$E_p = A \times B + 1095 (C \times D \times F)$$

where:

E_p = Total maximum theoretical emissions of VOM from one flexographic or rotogravure printing line in units of kg/year (lbs/year);

A = Weight of VOM per volume of solids of the coating or ink with the highest VOM content as applied each year on the printing line in units of kg VOM/l (lbs VOM/gal) of coating or ink solids;

B = Total volume of solids for all coatings and inks that can potentially be applied each year on the printing line in units of l/year (gal/year). The method by which the owner or operator accurately calculated the volume of each coating and ink as applied and the amount that can potentially be applied each year on the printing line must be described in the certification to the Agency;

C = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/l (lbs VOM/gal);

D = The greatest volume of cleanup material or solvent used in any eight-hour period;

F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any eight-hour period.

- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line referenced in this subsection must collect and record all of the following information each year for each printing line and maintain the information at the source for ~~a period of~~ three years:

- A) The name and identification number of each coating and ink as applied on each printing line.

B) The VOM content and the volume of each coating and ink as applied each year on each printing line.

3) On and after a date consistent with Section 218.106 ~~of this Part~~, or, for flexographic or rotogravure printing lines that print flexible packaging or that print flexible packaging and non-flexible packaging on the same line, on and after January 1, 2012, the owner or operator of a flexographic and rotogravure printing line exempted from the limitations of Section 218.401 ~~of this Part~~ because of the criteria in Section 218.402(a) ~~must of this Part shall~~ notify the Agency of any record showing that total maximum theoretical emissions of VOM from all printing lines exceed 90.7 Mg (100 tons) in any calendar year before ~~applying the application of~~ capture systems and control devices, or that the combined potential to emit of all flexographic and rotogravure printing lines at the source ~~is at least equals or exceeds~~ 22.7 Mg (25 tons) of VOM in any calendar year, by sending a copy of ~~the such~~ record to the Agency within 30 days after the exceedance occurs.

c) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~under by means of~~ Section 218.401(a) ~~must of this Part shall~~ comply with the following:

1) By a date consistent with Section 218.106 ~~of this Part~~, or ~~218.403(b) Section 218.403(e)~~, as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance ~~for from~~ an existing subject printing line from Section 218.401(b) or ~~Section 218.401(c) of this Part~~ to Section 218.401(a) ~~of this Part~~, the owner or operator of a subject printing line ~~must shall~~ certify to the Agency that the printing line will be in compliance with Section 218.401(a) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or ~~218.403(b) Section 218.403(e)~~, as applicable, or on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section ~~218.401(a)(2) must 218.401(a)(2)(B) shall~~ certify in ~~compliance accordance~~ with this subsection (c)(1) even if the owner or operator of ~~the such~~ line submitted a certification ~~before prior to~~ January 1, 2010. ~~The Such~~ certification ~~must shall~~ include:

A) The name and identification number of each coating and ink as applied on each printing line.

B) The VOM content of each coating and ink as applied each day on each printing line.

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- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying underby means of Section 218.401(a) mustof this Part shall collect and record all of the following information each day for each coating line and maintain the information at the source for ~~a period of~~ three years:
 - A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.
 - 3) On and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, the owner or operator of a subject printing line mustshall notify the Agency in the following instances:
 - A) Any record showing violation of Section 218.401(a) mustof this Part shall be reported by sending a copy of thesuch record to the Agency within 30 days afterfollowing the occurrence of the violation.
 - B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(a) ~~of this Part~~ to Section 218.401(b) or (c) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (d)(1) or (e)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(a) ~~of this Part~~ to Section 218.401(b) or (c) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (d) or (e) ~~of this Section~~, respectively.
 - d) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying underby means of Section 218.401(b) mustshall comply with the following:
 - 1) By a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance for an existing subject printing line from Section 218.401(a) or (c) ~~of this Part~~ to

Section 218.401(b) ~~of this Part~~, the owner or operator of the subject printing line ~~must~~ shall certify to the Agency that the printing line will be in compliance with Section 218.401(b) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, or on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section 218.401(b)(3) ~~must~~ shall certify in accordance with this subsection (d)(1) even if the owner or operator of ~~the~~ such line submitted a certification ~~before prior to~~ January 1, 2010. ~~The~~ Such certification ~~must~~ shall include:

- A) The name and identification number of each printing line which will comply ~~under by means of~~ Section 218.401(b) ~~of this Part~~.
- B) The name and identification number of each coating and ink available for use on each printing line.
- C) The VOM content of each coating and ink as applied each day on each printing line.
- D) The method by which the owner or operator will accurately calculate the volume, or weight of solids, as applicable, of each coating and ink as applied each day on each printing line, and on and after January 1, 2012, the weight of each coating or ink.
- E) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) ~~of this Section~~.
- F) An example of the format in which the records required in subsection (d)(2) ~~of this Section~~ will be kept.

- 2) On and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~under by means of~~ Section 218.401(b) ~~must~~ of this Part shall collect and record all of the following information each day for each printing line and maintain the information at the source for ~~a period of~~ three years:

- A) The name and identification number of each coating and ink as applied on each printing line.
- B) The VOM content and the volume, or weight of solids, as

applicable, of each coating and ink as applied each day on each printing line, and on and after January 1, 2012, the weight of each coating or ink.

C) The daily-weighted average VOM content of all coatings and inks as applied on each printing line.

3) On and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, the owner or operator of a subject printing line mustshall notify the Agency in the following instances:

A) Any record showing violation of Section 218.401(b) ~~mustof this Part shall~~ be reported by sending a copy of ~~thesueh~~ record to the Agency within 30 days ~~afterfollowing the occurrence of~~ the violation.

B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(b) ~~of this Part~~ to Section 218.401(a) or (c) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (c)(1) or (e)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(b) ~~of this Part~~ to Section 218.401(a) or (c) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (c) or (e) ~~of this Section~~, respectively.

e) Any owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~underby means of~~ Section 218.401(c) ~~mustof this Part shall~~ comply with the following:

1) By a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, ~~or~~ upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from Section 218.401(a) or (b) ~~of this Part~~ to Section 218.401(c) ~~of this Part~~, the owner or operator of the subject printing line mustshall either:

A) Perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with Section 218.401(c) ~~of this Part~~ on and after a date consistent with Section 218.106 ~~of this Part~~, or 218.403(b)Section 218.403(e), as applicable, or on and after the

initial start-up date; or

B) If not required to perform ~~such~~ testing ~~underpursuant to~~ Section ~~218.401(c)(5)~~~~218.401(e)(6)~~, submit a certification to the Agency that includes:

- i) A declaration that the owner or operator is not required to perform testing ~~underpursuant to~~ Section ~~218.401(c)(5)~~~~218.401(e)(6)~~;
- ii) The dates that testing demonstrating compliance with Section ~~218.401(c)(2)~~~~218.401(e)(3)~~ was performed; and
- iii) The dates that the ~~testing~~ results ~~of such testing~~ were submitted to the Agency.

2) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~218.403(b)~~~~Section 218.403(e)~~, as applicable, or on and after the initial start-up date, the owner or operator of a printing line subject to the limitations of Section 218.401 ~~of this Part~~ and complying ~~underby means of~~ Section 218.401(c) ~~must of this Part shall~~ collect and record all of the following information each day for each printing line and maintain the information at the facility for ~~a period of~~ three years:

- A) Control device monitoring data.
- B) A log of operating time for the capture system, control device, monitoring equipment, and the associated printing line.
- C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

3) On and after a date consistent with Section 218.106 ~~of this Part~~, or ~~218.403(b)~~~~Section 218.403(e)~~, as applicable, the owner or operator of a subject printing line ~~must~~~~shall~~ notify the Agency in the following instances:

- A) Any record showing violation of Section 218.401(c) ~~must of this Part shall~~ be reported by sending a copy of ~~the such~~ record to the Agency within 30 days ~~after following the occurrence of~~ the violation.

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- B) At least 30 calendar days before changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(c) ~~of this Part~~ to Section 218.401(a) or (b) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (c)(1) or (d)(1) ~~of this Section~~, respectively. Upon changing the method of compliance with Section 218.401 ~~of this Part~~ from Section 218.401(c) ~~of this Part~~ to Section 218.401(a) or (b) ~~of this Part~~, the owner or operator mustshall comply with all requirements of subsection (c) or (d) ~~of this Section~~, respectively.
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- 4) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, the owner or operator of a printing line subject to the requirements in Section 218.401(c)(2) or (c)(3) must ~~218.401(e)(3) or (e)(4) shall~~ submit to the Agency records documenting the date the printing line was constructed at the subject source and the date the control device for thesueh printing line was constructed at the subject source.
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- f) Any owner or operator of a flexographic or rotogravure printing line that prints flexible packaging, or that prints flexible packaging and non-flexible packaging on the same line, and that is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) mustshall:
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- 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, and upon modification of a printing line, submit a certification to the Agency that includes:
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- A) A declaration that the source is exempt from the requirements in Section 218.401(d) because of the criteria in Section 218.402(b);
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- B) Calculations that demonstrate that combined emissions of VOM from all flexographic and rotogravure printing lines (including inks and solvents used for cleanup operations associated with thesueh printing lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day) without, in the absence of air pollution control equipment;
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- 2) On and after January 1, 2012, collect and record the following information each day for each subject printing line:
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- A) The name and identification number of each coating, ink, and cleaning solvent as applied each day on each printing line;

- 6685 B) The VOM content of each coating and ink (measured in weight of
6686 VOM per volume of coating or ink, or in weight of VOM per
6687 weight of coating or ink) as applied each day on each printing line,
6688 and the volume or weight of each coating or ink, as applicable;
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- 6690 C) The weight of VOM per volume of each cleaning solvent and the
6691 volume of each cleaning solvent used each day on each printing
6692 line;
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- 6694 D) The total daily emissions of VOM from each printing line
6695 (including solvents used for cleanup operations associated with the
6696 printing line) and the sum of daily emissions from all subject
6697 printing lines at the source; and
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- 6699 3) Notify the Agency in writing if the combined emissions of VOM from all
6700 flexographic and rotogravure printing lines (including inks and solvents
6701 used for cleanup operations associated with the flexographic and
6702 rotogravure lines) at the source ever equal or exceed 6.8 kg/day (15
6703 lbs/day) ~~without, in the absence of~~ air pollution control equipment, within
6704 30 days after the event occurs
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- 6706 g) Any owner or operator of a printing line subject to the limitations of Section
6707 218.401(d) ~~must~~shall:
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- 6709 1) By August 1, 2010, or upon initial start-up of a new printing line,
6710 whichever is later, submit a certification to the Agency describing the
6711 practices and procedures that the owner or operator will follow to ensure
6712 compliance with the limitations of Section 218.401(d); and
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- 6714 2) Notify the Agency of any violation of Section 218.401(d) by sending a
6715 description of the violation and copies of records documenting ~~the such~~
6716 violations to the Agency within 30 days ~~after following the occurrence of~~
6717 the violation.
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- 6719 h) All records required by subsections (f) and (g) ~~must of this Section shall~~ be
6720 retained for at least three years and ~~must~~shall be made available to the Agency
6721 upon request.
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6723 (Source: Amended at 50 Ill. Reg. _____, effective _____)
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6725 Section 218.405 Lithographic Printing: Applicability

- 6726 a) Every owner or operator of lithographic printing lines is subject to the
6727

recordkeeping and reporting requirements in Section 218.411 ~~of this Subpart.~~

- b) Specific requirements and exclusions~~Prior to August 1, 2010, Sections 218.407 through 218.410 of this Subpart shall apply to:~~

- 1) ~~All owners or operators of heatset web offset lithographic printing lines unless:~~
 - A) ~~Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset lithographic printing lines) at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices. To determine a source's total maximum theoretical emissions of VOM for the purposes of this subsection (b)(1)(A), the owner or operator shall use the calculations set forth in Section 218.411(a)(1)(C) of this Subpart; or~~
 - B) ~~Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing lines at the source requires the owner or operator to limit production or capacity of these printing lines to total VOM emissions of 90.7 Mg/yr (100 TPY) or less, before the application of capture systems and control devices;~~
- 2) ~~All owners or operators of lithographic printing lines, unless the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) never exceed 45.5 kg/day (100 lbs/day), as determined in accordance with Section 218.411(a)(1)(B), before the application of capture systems and control devices.~~

- e) ~~On and after August 1, 2010:~~

- 1) The requirements in Section 218.407(a)(1)(B) through (a)(1)(E) and 218.407(b) and all applicable provisions in Sections 218.409 through 218.411 ~~of this Subpart shall~~ apply to all owners or operators of heatset web offset lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever exceed 45.5 kg/day (100 lbs/day), calculated in compliance~~accordance~~ with Section 218.411(a)(2)(B)~~218.411(b)(2)(B)~~, before applying the~~application of~~ capture systems and control devices;

- 2) The requirements in Section 218.407(a)(1)(A) and (a)(2) through (a)(5) and all applicable provisions in Sections 218.409 through 218.411 ~~of this Subpart shall~~ apply to all owners or operators of lithographic printing lines, if the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever equal or exceed 6.8 kg/day (15 lbs/day), calculated in ~~compliance~~ accordance with Section ~~218.411(a)(1)(B)218.411(b)(1)(B)~~, before ~~applying the application of~~ capture systems and control devices;
- 3) ~~Despite Notwithstanding~~ subsection ~~(b)(2)(c)(2) of this Section~~, at sources where the combined emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ~~are at least equal or exceed~~ 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), calculated in ~~compliance~~ accordance with Section ~~218.411(a)(1)(B)218.411(b)(1)(B)~~, before ~~applying the application of~~ capture systems and control devices, the following exclusions ~~shall~~ apply unless the owner or operator of the source certifies ~~under pursuant to~~ Section ~~218.411(f)(1)(B)218.411(g)(1)(B)~~ that the source will not ~~use make use of~~ any ~~of these~~ such exclusions:
 - A) ~~The requirements of~~ Section 218.407(a)(1)(A), (a)(2), and (a)(3) ~~do of this Subpart shall~~ not apply to lithographic printing lines with a total fountain solution reservoir of less than 3.8 ~~liters~~ (1 ~~gal~~ gallon);
 - B) ~~The requirements of~~ Section 218.407(a)(3) ~~does of this Subpart shall~~ not apply to sheet-fed offset lithographic printing lines with maximum sheet size of 11x17 inches or smaller;
 - C) ~~The requirements of~~ Section 218.407(a)(4) ~~does of this Subpart shall~~ not apply to up to a total of 416.3 ~~liters~~ (110 ~~gal~~ gallons) per year of cleaning materials used on all lithographic printing lines at the source; and
 - D) ~~The requirements of~~ Section 218.407(a)(4)(A)(i) ~~does shall~~ not apply to lithographic printing lines at the source. Instead, ~~the requirements of~~ Section 218.407(a)(4)(A)(ii) ~~applies shall apply~~ to ~~those~~ such lines.
- cd) If a lithographic printing line at a source is or becomes subject to at least one or more of the limitations in Section 218.407 ~~of this Subpart~~, the lithographic

printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines

- a) ~~An~~No owner or operator of lithographic printing lines subject to the requirements of this Subpart ~~must not~~shall:
 - 1) Cause or allow the operation of any heatset web offset lithographic printing line unless:
 - A) The total VOM content in the as-applied fountain solution meets one of the following conditions:
 - i) ~~1.6%~~1.6 percent or less, by weight;
 - ii) ~~3%~~3 percent or less, by weight, and the temperature of the fountain solution is maintained below 15.6 °C (60 °F)~~15.6 °C (60 °F)~~, measured at the reservoir or the fountain tray; or
 - iii) ~~5%~~5 percent or less, by weight, and the as-applied fountain solution contains no alcohol;
 - B) The air pressure in the dryer is maintained lower than the air pressure of the press room ~~so, such~~ that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
 - C) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced ~~as follows~~:
 - i) ~~Prior to August 1, 2010, by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon); and~~
 - ii) ~~By~~On and after August 1, 2010, by at least ~~90%~~90 percent, by weight, for afterburners first constructed at the source ~~before~~prior to January 1, 2010;

- ii) ~~By~~ at least 95% percent, by weight, for afterburners first constructed at the source on or after January 1, 2010;~~or~~
- iii) ~~To or to~~ a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);
- D) The afterburner complies with all monitoring provisions ~~specified in Section 218.410(c) of this Subpart;~~ and
- E) The afterburner is operated at all times when the printing line is ~~operating in operation~~, except the afterburner may be shut down between November 1 and April 1 ~~under as provided in~~ Section 218.107 ~~of this Part;~~
- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is ~~5%5 percent~~ or less, by weight, and the as-applied fountain solution contains no alcohol.;
- 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:
- A) The VOM content of the as-applied fountain solution is ~~5%5 percent~~ or less, by weight; or
- B) The VOM content of the as-applied fountain solution is ~~8.5%8.5 percent~~ or less, by weight, and the temperature of the fountain solution is maintained below ~~15.6 °C (60 °F)15.6°C (60°F)~~, measured at the reservoir or the fountain tray.;
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
- A) The VOM content of the as-used cleaning solution is less than or equal to:
- i) ~~30%30 percent~~, by weight; or
- ii) On and after August 1, 2010, for owners or operators of sources that meet the applicability criteria in Section ~~218.405(b)(3)218.405(e)(3)~~ and do not certify ~~under pursuant to~~ Section ~~218.411(f)(1)(B)218.411(g)(1)(B)~~

that the source will not make use of any of the exclusions in Section ~~218.405(b)(3)~~218.405(e)(3), ~~70%70 percent~~, by weight; or

B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at ~~20 °C (68 °F)~~20°C (68°F);

5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored, or disposed of in any manner other than in closed containers, except when specifically in use.

b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of subsection (a)(1)(C) ~~of this Section~~ may use a control device other than an afterburner, if:

1) The control device reduces VOM emissions from the press dryer exhausts as follows:

~~A) Prior to August 1, 2010, by at least 90 percent, by weight, or to a maximum control device exhaust outlet concentration of 20 ppmv (as carbon); and~~

~~B) On and after August 1, 2010:~~

~~Ai)~~ By at least ~~90%90 percent~~, by weight, for control devices first constructed at the source ~~before~~prior to January 1, 2010;

~~Bii)~~ By at least ~~95%95 percent~~, by weight, for control devices first constructed at the source on or after January 1, 2010; or

~~Ciii)~~ To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);

2) The owner or operator submits to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; and

3) The use of the control device with testing, monitoring, and recordkeeping in ~~compliance~~accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.409 Testing for Lithographic Printing

- a) Testing to demonstrate compliance with the requirements of Section 218.407 ~~must of this Subpart shall~~ be conducted by January 1, 2012, unless ~~thesueh~~ testing was conducted on or after May 9, 1995, the test was conducted ~~underpursuant to~~ a test method approved by USEPA, the current operating conditions and operating capacity of the press are consistent with the operation of the press during ~~thesueh~~ testing, and the test results were submitted to the Agency. If an owner or operator of a printing line performed ~~thesueh~~ testing ~~beforeprior to~~ May 9, 1995, the owner or operator ~~mustshall~~ either retest ~~underpursuant to~~ this Section or submit to the Agency all information necessary to demonstrate that the ~~previousprior~~ testing was conducted ~~underpursuant to~~ a test method approved by USEPA, and that the current operating conditions and operating capacity of the press are consistent with the operation of the press during ~~previousprior~~ testing. ~~Testing must then~~ ~~Thereafter, testing shall~~ be conducted by the owner or operator within 90 days after a request by the Agency; or as otherwise specified in this Subpart. ~~TheSueh~~ testing ~~mustshall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~mustshall~~ notify the Agency in writing 30 days ~~beforein advance of~~ conducting ~~thesueh~~ testing to allow the Agency to be present during ~~thesueh~~ testing.
- b) The methods and procedures of Section 218.105(d) and (f) ~~mustshall~~ be used for testing to demonstrate compliance with the requirements of Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust ~~mustshall~~ be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60.Appendix A-760, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

- 6986
- 6987 A) The allowable outlet concentration of VOM from the control
- 6988 device is less than 50 ppmv, as carbon;
- 6989
- 6990 B) The VOM concentration at the inlet of the control device and the
- 6991 required level of control result in exhaust concentrations of VOM
- 6992 of 50 ppmv, or less, as carbon; and
- 6993
- 6994 C) Due to the high efficiency of the control device, the anticipated
- 6995 VOM concentration at the control device exhaust is 50 ppmv or
- 6996 less, as carbon, regardless of inlet concentration. If the source
- 6997 elects to use Method 25A under this option, the exhaust VOM
- 6998 concentration must be 50 ppmv or less, as carbon, and the required
- 6999 destruction efficiency must be met for the source to have
- 7000 demonstrated compliance. If the Method 25A test results show
- 7001 that the required destruction efficiency apparently has been met,
- 7002 but the exhaust concentration is above 50 ppmv, as carbon, a retest
- 7003 is required. The retest ~~must~~ shall be conducted using either Method
- 7004 25 or Method 25A. If the retest is conducted using Method 25A
- 7005 and the test results again show that the required destruction
- 7006 efficiency apparently has been met, but the exhaust concentration
- 7007 is above 50 ppmv, as carbon, the source must retest using Method
- 7008 25;
- 7009
- 7010 4) ~~Despite Notwithstanding~~ the criteria or requirements in Method 25 that
- 7011 ~~specify~~ specifies a minimum probe temperature of ~~129 °C (265 °F)~~ 129°C
- 7012 ~~(265°F)~~, the probe must be heated to at least the gas stream temperature of
- 7013 the dryer exhaust, typically close to ~~176.7 °C (350 °F)~~ 176.7°C (350°F);
- 7014
- 7015 5) During testing, the printing lines ~~must~~ shall be operated at representative
- 7016 operating conditions and flow rates; and
- 7017
- 7018 6) During testing, an air flow direction indicating device, such as a smoke
- 7019 stick, ~~must~~ shall be used to demonstrate ~~100%+100 percent~~ emissions
- 7020 capture efficiency for the dryer in ~~compliance~~ accordance with Section
- 7021 218.407(a)(1)(B) ~~of this Subpart~~.
- 7022
- 7023 c) Testing to demonstrate compliance with the VOM content limitations in Section
- 7024 218.407(a)(1)(A), (a)(2), (a)(3), and (a)(4)(A) ~~of this Subpart~~, and to determine
- 7025 the VOM content of fountain solutions, fountain solution additives, cleaning
- 7026 solvents, cleaning solutions, and inks (~~underpursuant to the requirements of~~
- 7027 Section 218.411(a)(1)(B), ~~(b)(1)(B)~~, or ~~(a)(2)(B)(b)(2)(B) of this Subpart~~, as
- 7028 applicable), ~~must~~ shall be conducted upon request of the Agency or as otherwise

specified in this Subpart, as follows:

- 1) The applicable test methods and procedures ~~specified~~ in Section 218.105(a) ~~must of this Part shall~~ be used; ~~provided~~, however, Method 24, incorporated by reference at Section 218.112 ~~of this Part~~, ~~must shall~~ be used to demonstrate compliance; or
- 2) The manufacturer's specifications for VOM content for fountain solution additives, cleaning solvents, and inks may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~complianceaceordance~~ with methods ~~specified~~ in Section 218.105(a) ~~of this Part~~; ~~provided~~, however, Method 24 ~~must shall~~ be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 218.407(b) ~~must of this Subpart shall~~ be conducted ~~under as set forth in~~ the ~~owner's sowner~~ or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions ~~under pursuant to~~ Section 218.407(b) ~~of this Subpart~~.
- e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions ~~must shall~~ be conducted in ~~complianceaceordance~~ with the applicable methods and procedures ~~specified~~ in Section 218.110 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature
 - 1) The owner or operator of any lithographic printing lines relying on the temperature of the fountain solution to demonstrate compliance ~~must shall~~ install, maintain, and continuously operate a temperature monitor of the fountain solution in the reservoir or fountain tray, as applicable.
 - 2) The temperature monitor must be capable of reading with an accuracy of 1 °C or 2 °F ~~1°C or 2°C~~, and must be attached to an automatic, continuous recording device, such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated, and maintained in ~~complianceaceordance~~ with the manufacturer's specifications. If the automatic, continuous recording device malfunctions, the owner or operator ~~must shall~~ record the temperature of the fountain solution at least once every two operating hours. The automatic, continuous recording

device ~~must~~ be repaired or replaced as soon as practicable.

- b) Fountain Solution VOM Content. The owner or operator of any lithographic printing lines subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~must of this Subpart shall~~:

- 1) For a fountain solution to which VOM is not added automatically:

- A) Maintain records of the VOM content of the fountain solution in ~~compliance accordance~~ with Section ~~218.411(d)(2)(C) 218.411(e)(2)(C)~~; or

- B) Take a sample of the as-applied fountain solution from the fountain tray or reservoir, as applicable, each time a fresh batch of fountain solution is prepared or each time VOM is added to an existing batch of fountain solution in the fountain tray or reservoir, and ~~shall~~ determine compliance with the VOM content limitation of the as-applied fountain solution by using one of the following options:

- i) With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of ~~0.5% 0.5 percent~~. The refractometer or hydrometer must be calibrated with a standard solution for the type of VOM used in the fountain solution, in ~~compliance accordance~~ with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per ~~eight-hour 8-hour~~ shift or once per batch of fountain solution prepared or modified, whichever is longer; or
- ii) With a conductivity meter, if it is demonstrated that a refractometer and hydrometer cannot distinguish between compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing ~~95%, 100%, and 105% 95 percent, 100 percent and 105 percent~~ of the applicable VOM content limit. The conductivity meter reading for the fountain solution must be referenced to the conductivity of the incoming water. A standard solution ~~must~~ be used to calibrate the conductivity meter for the type of VOM used in the

fountain solution, in ~~compliance~~ with
manufacturer's specifications;

- 2) For fountain solutions to which VOM is added at the source with automatic feed equipment, determine the VOM content of the as-applied fountain solution based on the setting of the automatic feed equipment which makes additions of VOM up to a pre-set level. Records ~~must be retained~~ of the VOM content of the fountain solution ~~must be retained~~ in ~~compliance~~ with Section ~~218.411(d)(2)(D)~~ ~~218.411(e)(2)(D)~~ of ~~this Subpart~~. The equipment used to make automatic additions must be installed, calibrated, operated, and maintained in ~~compliance~~ with manufacturer's specifications.

- c) Afterburners for Heatset Web Offset Lithographic Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to Section 218.407(a)(1)(C) ~~must of this Subpart shall~~:

- 1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of ~~3 °C or 5 °F~~ ~~3°C or 5°F~~ on the afterburner in ~~compliance~~ with Section 218.105(d)(2) ~~of this Part~~ and in ~~accordance with~~ the manufacturer's specifications. Monitoring ~~must shall~~ be performed at all times when the afterburner is operating; and
- 2) Install, calibrate, operate, and maintain, in ~~compliance~~ with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

- d) Other Control Devices for Heatset Web Offset Lithographic Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web offset lithographic printing line subject to this Subpart ~~must shall~~ install, maintain, calibrate, and operate ~~thesuch~~ monitoring equipment ~~under as set forth in~~ the ~~owner's owner~~ or operator's plan approved by the Agency and USEPA ~~under pursuant to~~ Section 218.407(b) ~~of this Subpart~~.

- e) Cleaning Solution

- 1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 218.407(a)(4)(A) ~~of this Subpart~~ must:

- A) For cleaning solutions that are prepared at the source with

equipment that automatically mixes cleaning solvent and water (or other non-VOM):

- i) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance~~accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
- ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.407(a)(4)(A)~~-of this Subpart;~~

B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the ~~use~~usage of cleaning solvent and water (or other non-VOM) ~~under~~as set forth in Section ~~218.411(e)(2)~~218.411(f)(2)~~-of this Subpart.~~

- 2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.407(a)(4)(B)~~-of this Subpart~~ must keep records for ~~the~~such cleaning solutions used on ~~the~~any such lines ~~under~~as set forth in Section ~~218.411(e)(2)(C)~~218.411(f)(2)(C)~~-of this Subpart.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.411 Recordkeeping and Reporting for Lithographic Printing

a) ~~Exempt Units prior to August 1, 2010. An owner or operator of lithographic printing lines exempt from the limitations of Section 218.407 of this Subpart prior to August 1, 2010, because of the criteria in Section 218.405(b) of this Subpart, shall comply with the following:~~

1) ~~Upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:~~

A) ~~A declaration that the source is exempt from the control requirements in Section 218.407 of this Part because of the criteria in Section 218.405(b) of this Subpart;~~

B) ~~Calculations that demonstrate that combined emissions of VOM~~

from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, as follows:

- i) To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were in operation;
- ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 218.409(c) of this Subpart shall be used;
- iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 shall be used in calculating emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 shall be used in calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and
- iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing lines at the source, no retention factor is used;

C) Either a declaration that the source, through federally enforceable permit conditions, has limited its maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset printing lines) at the source to no more than 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices or calculations which demonstrate that

the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 tons/yr). Total maximum theoretical emissions of VOM for a heatset web offset lithographic printing source is the sum of maximum theoretical emissions of VOM from each heatset web offset lithographic printing line at the source. The following equation shall be used to calculate total maximum theoretical emissions of VOM per calendar year in the absence of air pollution control equipment for each heatset web offset lithographic printing line at the source:

$$E_p = (R \times A \times B) + (C \times D) + 1095 (F \times G \times H)$$

where:

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lb/yr);
- A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal) of solids;
- B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;
- C = Weight of VOM per volume of fountain solution with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal);
- D = The total volume of fountain solution that can potentially be used each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the certification to the Agency;
- F = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as

~~used each year on the printing line in units of kg/l (lb/gal) of such material;~~

~~G = The greatest volume of cleanup material or solvent used in any 8-hour period;~~

~~H = The highest fraction of cleanup material or solvent that is not recycled or recovered for offsite disposal during any 8-hour period;~~

~~R = The multiplier representing the amount of VOM not retained in the substrate being used. For paper, R = 0.8. For metal, plastic, or other impervious substrates, R = 1.0;~~

~~D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 218.409(e)(1) of this Subpart;~~

~~2) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. Such notification shall include a copy of all records of such event.~~

~~a)~~ Exempt Units on and after August 1, 2010

1) Lithographic Printing Lines Exempt ~~under~~pursuant to Section ~~218.405(b)(2)~~218.405(e)(2). By August 1, 2010, or upon initial start-up of a new lithographic printing line, whichever is later, and upon modification of a lithographic printing line, an owner or operator of lithographic printing lines exempt from ~~the limitations in~~ Section 218.407 ~~of this Subpart~~ because of the criteria in Section ~~218.405(b)(2)~~ must~~218.405(e)(2) of this Subpart shall~~ submit a certification to the Agency that includes the information ~~specified~~ in either subsections ~~(a)(1)(A)(b)(1)(A), (a)(1)(B)(b)(1)(B), and (a)(1)(D)(b)(1)(D) of this Section~~ or subsections ~~(a)(1)(A)(b)(1)(A) and (a)(1)(C)(b)(1)(C) of this Section~~, as applicable. An owner or operator complying with subsection ~~(a)(1)(B) must~~~~(b)(1)(B) shall~~ also comply with ~~the requirements in~~ subsection ~~(a)(1)(E) (b)(1)(E) of this Section~~. An owner or operator complying with subsection (a)(1)(C)

~~must(b)(1)(C) shall~~ also comply with ~~the requirements in~~ subsection ~~(a)(1)(F)(b)(1)(F) of this Section:~~

- A) A declaration that the source is exempt from ~~the requirements in~~ Section 218.407 ~~of this Subpart~~ because of the criteria in Section ~~218.405(b)(2).218.405(c)(2) of this Subpart;~~
- B) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ~~are less than~~~~do not equal or exceed~~ 6.8 kg/day (15 lbs/day); before ~~using the use of~~ capture systems and control devices, as follows:
 - i) To calculate daily emissions of VOM, the owner or operator ~~must~~~~shall~~ determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were ~~operating in~~ operation;
 - ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the test methods and procedures ~~set forth~~ in Section 218.409(c) ~~must of this Subpart shall~~ be used;
 - iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 ~~must~~~~shall~~ be used ~~to calculate in~~ ~~calculating~~ emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must~~~~shall~~ be used ~~to calculate in~~ ~~calculating~~ emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must~~~~shall~~ be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and

iv) To determine VOM emissions from cleaning solutions used on lithographic printing lines at the source, an emission adjustment factor of 0.50 ~~must~~shall be used ~~to calculate in calculating~~ emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is demonstrated to be less than 10 mmHg measured at ~~20 °C (68 °F)~~20°C (68°F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of ~~at least equal to or greater than~~ 10 mmHg measured at ~~20 °C (68 °F)~~20°C (68°F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used.

C) As an alternative to the calculations in subsection ~~(a)(1)(B)(i)(B)~~, a statement that the source uses less than the amount of material ~~specified~~ in subsection ~~(a)(1)(C)(i)(B)(i)(C)(i)~~ or (ii), as applicable, during each calendar month. A source may determine that it emits ~~less than below~~ 6.8 kg/day (15 lbs/day) of VOM based ~~on upon~~ compliance with ~~the such~~ material use limitations. If the source exceeds this amount of material use in a ~~given~~ calendar month, the owner or operator must, within 15 days after the end of that month, complete the emissions calculations of subsection ~~(a)(1)(B)(i)(B)~~ to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection ~~(a)(1)(C)(i)(B)(i)(C)(i)~~ as an alternative to the calculations in subsection ~~(a)(1)(B)(i)(B)~~. If a source has both heatset web offset and either nonheatset web offset or sheetfed lithographic printing operations, or has all three types of printing operations, the owner or operator may not ~~make use of~~ this alternative and must use the calculations in subsection ~~(a)(1)(B)(i)(B)~~.

i) The sum of all sheetfed and nonheatset web offset lithographic printing operations at the source: 242.3 ~~liters~~ (64 ~~gal~~gallons) of cleaning solvent and fountain solution additives, combined; or

ii) The sum of all heatset web offset lithographic printing operations at the source: 204.1 kg (450 lbs) of ink, cleaning solvent, and fountain solution additives, combined.

- 7371 D) A description and the results of all tests used to determine the
 7372 VOM content of inks, fountain solution additives, and cleaning
 7373 solvents, and a declaration that all ~~such~~ tests have been properly
 7374 conducted in compliance ~~accordance~~ with Section 218.409(c)(1) ~~of~~
 7375 ~~this Subpart;~~
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- 7377 E) For sources complying with subsection ~~(a)(1)(B)(b)(1)(B) of this~~
 7378 ~~Section~~, notify the Agency in writing if the combined emissions of
 7379 VOM from all lithographic printing lines (including inks, fountain
 7380 solutions, and solvents used for cleanup operations associated with
 7381 the lithographic printing lines) at the source are ~~ever~~ at least equal
 7382 ~~or exceed~~ 6.8 kg/day (15 lbs/day), before using ~~the use of~~ capture
 7383 systems and control devices, within 30 days after the event occurs.
 7384 If ~~such~~ emissions of VOM at the source are ~~at least equal or exceed~~
 7385 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100
 7386 lbs/day), the source must ~~shall~~ comply with ~~the requirements in~~
 7387 subsection ~~(a)(2)(b)(2) of this Section;~~
- 7388
- 7389 F) For sources complying with subsection ~~(a)(1)(C)(b)(1)(C) of this~~
 7390 ~~Section~~, comply with the following:
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- 7392 i) Maintain material use records showing that the source uses
 7393 less than the amount of material ~~specified~~ in subsections
 7394 ~~(a)(1)(C)(i)(b)(1)(C)(i)~~ and ~~(a)(1)(C)(ii)(b)(1)(C)(ii)~~ during
 7395 each calendar month, or, if the source exceeds the material
 7396 use limitations, records showing that the source exceeded
 7397 the limitations but emitted less than ~~did not emit~~ 6.8 kg/day
 7398 (15 lbs/day) ~~or more~~ of VOM, and provide these ~~such~~ records
 7399 to the Agency upon request. ~~The~~ On and after January 1,
 7400 ~~2012, such~~ records must ~~shall~~ include the name,
 7401 identification number, and VOM content of each cleaning
 7402 solvent and fountain solution additive used per calendar
 7403 month, the volume of each cleaning solvent and fountain
 7404 solution additive used per calendar month for each sheetfed
 7405 and nonheatset web offset lithographic printing operation,
 7406 and the weight of each cleaning solvent, ink, and fountain
 7407 solution additive used per calendar month for each heatset
 7408 web offset lithographic printing operation; and
- 7409
- 7410 ii) Notify the Agency in writing if the source exceeds the
 7411 material use limitations for six consecutive calendar
 7412 months, or if the source changes its method of compliance
 7413 from subsection ~~(a)(1)(C)(b)(1)(C)~~ to subsection

~~(a)(1)(B)(b)(1)(B) of this Section~~, within 30 days after the event occurs.;

- 2) Heatset web offset lithographic printing lines exempt ~~underpursuant to~~ Section ~~218.405(b)(1)218.405(e)(1)~~ but not exempt ~~underpursuant to~~ Section ~~218.405(b)(2)218.405(e)(2)~~. By August 1, 2010, or upon initial start-up of a new heatset web offset lithographic printing line, whichever is later, and upon modification of a heatset web offset lithographic printing line, an owner or operator of heatset web offset lithographic printing lines that are exempt from ~~the limitations in~~ Section 218.407 ~~underof this Subpart pursuant to the criteria in~~ Section ~~218.405(b)(1)218.405(e)(1) of this Subpart~~, but ~~that are~~ not exempt ~~underpursuant to the criteria in~~ Section ~~218.405(b)(2) must218.405(e)(2) of this Subpart~~, shall submit a certification to the Agency that includes the information ~~specified in~~ subsections ~~(a)(2)(A)(b)(2)(A) through (a)(2)(C)(b)(2)(C) of this Section~~. ~~The Such~~ owner or operator ~~mustshall~~ also comply with ~~the requirements in~~ subsection ~~(a)(2)(D)(b)(2)(D) of this Section~~:
- A) A declaration that the source is exempt from the control requirements in Section 218.407 ~~of this Subpart~~ because of the criteria in Section ~~218.405(b)(1)218.405(e)(1) of this Subpart~~, but is not exempt ~~underpursuant to~~ the criteria in Section ~~218.405(b)(2).218.405(e)(2) of this Subpart;~~
- B) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ~~are less thannever exceed~~ 45.5 kg/day (100 lbs/day) before ~~usingthe use of~~ capture systems and control devices, as follows (the following methodology ~~mustshall~~ also be used to calculate whether a source exceeds 45.5 kg/day (100 lbs/day) ~~to determinefor purposes of determining~~ eligibility for the exclusions ~~set forth~~ in Section 218.415(c)(3), in ~~complianceaceordancee~~ with Sections ~~218.411(f)(2)(A)(i)218.411(g)(2)(A)(i)~~:
- i) To calculate daily emissions of VOM, the owner or operator ~~mustshall~~ determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that

lithographic printing lines at the source were ~~operating in~~
~~operation;~~

- ii) To determine the VOM content of the inks, fountain solution additives, and cleaning solvents, the test methods and procedures ~~set forth~~ in Section 218.409(c) ~~must of this Subpart shall~~ be used;
- iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 ~~must shall~~ be used ~~to calculate in~~
~~calculating~~ emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must shall~~ be used ~~to calculate in~~
~~calculating~~ emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must shall~~ be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; ~~and~~
- iv) To determine VOM emissions from cleaning solvents used on lithographic printing lines at the source, an emission adjustment factor of 0.50 ~~must shall~~ be used ~~to calculate in~~
~~calculating~~ emissions from cleaning solution in shop towels, if the VOM composite vapor pressure of ~~the such~~
cleaning solution is demonstrated to be less than 10 mmHg measured at ~~20 °C (68 °F) 20 °C (68 °F)~~ and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at ~~20 °C (68 °F) 20 °C (68 °F)~~ and for shop towels that are not kept in closed containers, no emission adjustment factor is used.;

C) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all ~~such~~ tests have been properly conducted in ~~compliance accordance~~ with Section 218.409(c)(1). ~~of this Subpart;~~

D) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain

solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day); before ~~using the use of~~ capture systems and control devices, within 30 days after the event occurs.

be) Unless complying with subsections ~~(a)(1)(C)(b)(1)(C)~~ and ~~(a)(1)(F)(b)(1)(F)~~ of ~~this Section~~, an owner or operator of lithographic printing lines subject to ~~the requirements of~~ subsection (a) ~~must or (b) of this Section shall~~ collect and record ~~either the information specified in either~~ subsection ~~(b)(1)(e)(1)~~ or ~~(b)(2)(e)(2) of this Section~~ for all lithographic printing lines at the source:

1) Standard recordkeeping, including ~~the following~~:

- A) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- B) A daily record which shows whether a lithographic printing line at the source was ~~operating in operation~~ on that day;
- C) The VOM content and the volume of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month;
- E) The VOM emissions in lbs/day for the month, calculated in ~~compliance accordance~~ with subsection (a)(1)(B) ~~or (a)(2)(B); (b)(1)(B), or (b)(2)(B) of this Section~~, as applicable;

2) Purchase and inventory recordkeeping, including ~~the following~~:

- A) The name, identification, and VOM content of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
- B) Inventory records from the beginning and end of each month indicating the total volume of each fountain solution additive, lithographic ink, and cleaning solvent to be used on any

lithographic printing line at the source;

- C) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
- D) A daily record which shows whether a lithographic printing line at the source was in operation on that day;
- E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each fountain solution additive, cleaning solvent, and lithographic ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month based on the monthly inventory and purchase records required to be maintained ~~underpursuant to~~ subsections ~~(b)(2)(A)(e)(2)(A), (b)(2)(B)(e)(2)(B), and (b)(2)(C)(e)(2)(C) of this Section;~~
- F) The VOM emissions in lbs/day for the month, calculated in ~~compliance accordance~~ with subsection (a)(1)(B) ~~or (a)(2)(B); (b)(1)(B), or (b)(2)(B) of this Section,~~ as applicable.

~~cd~~) An owner or operator of a heatset web offset lithographic printing line subject to the control requirements of Section 218.407(a)(1)(C) or (b)(1) ~~must of this Subpart shall~~ comply with the following:

- 1) By August 1, 2010, upon initial start-up of a new printing line, and upon initial start-up of a new control device for a heatset web offset printing line, submit a certification to the Agency that includes ~~the following:~~
 - A) An identification of each heatset web offset lithographic printing line at the source;
 - B) A declaration that each heatset web offset lithographic printing line is in compliance with ~~the requirements of~~ Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E) or (b) ~~of this Subpart,~~ as appropriate;
 - C) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~ and the date that ~~thesuch~~ device was first constructed at the source;

- 7585 D) The control requirements in Section 218.407(a)(1)(C) or (b)(1)-~~of~~
 7586 ~~this Subpart~~ with which the lithographic printing line is complying;
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 7588 E) The results of all tests and calculations necessary to demonstrate
 7589 compliance with the control requirements of Section
 7590 218.407(a)(1)(C) or (b)(1)-~~of this Subpart~~, as applicable; and
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 7592 F) A declaration that the monitoring equipment required under
 7593 Section 218.407(a)(1)(D) or (b)-~~of this Subpart~~, as applicable, has
 7594 been properly installed and calibrated according to manufacturer's
 7595 specifications.;

- 7597 2) If testing of the afterburner or other approved control device is conducted
 7598 ~~underpursuant to~~ Section 218.409(b)-~~of this Subpart~~, the owner or operator
 7599 ~~mustshall~~, within 90 days after conducting ~~thesuch~~ testing, submit a copy
 7600 of all test results to the Agency and ~~shall submit~~ a certification to the
 7601 Agency that includes ~~the following~~:

- 7603 A) A declaration that all tests and calculations necessary to
 7604 demonstrate whether the lithographic printing lines are in
 7605 compliance with Section 218.407(a)(1)(C) or (b)(1)-~~of this~~
 7606 ~~Subpart~~, as applicable, have been properly performed;
 7607
 7608 B) A statement whether the lithographic printing lines are or are not in
 7609 compliance with Section 218.407(a)(1)(C) or (b)(1)-~~of this~~
 7610 ~~Subpart~~, as applicable; and
 7611
 7612 C) The operating parameters of the afterburner or other approved
 7613 control device during testing, as monitored in
 7614 ~~complianceaccordance~~ with Section 218.410(c) or (d)-~~of this~~
 7615 ~~Subpart~~, as applicable.;

- 7617 3) Except ~~underas provided in~~ subsection ~~(c)(3)(D)(ii)(d)(3)(D)(ii) of this~~
 7618 ~~Section~~, collect and record daily the following information for each
 7619 heatset web offset lithographic printing line subject to ~~the requirements of~~
 7620 Section 218.407(a)(1)(C) or (b)(1)-~~of this Subpart~~:

- 7622 A) Afterburner or other approved control device monitoring data in
 7623 ~~complianceaccordance~~ with Section 218.410(c) or (d)-~~of this~~
 7624 ~~Subpart~~, as applicable;
 7625
 7626 B) A log of operating time for the afterburner or other approved
 7627 control device, monitoring equipment, and the associated printing

line;

- C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
- D) A log detailing checks on the air flow direction or air pressure of the dryer and press room at least once per calendar month while the line is operating to ensure compliance with ~~the requirements~~ of Section 218.407(a)(1)(B) ~~of this Subpart as follows:~~

- i) ~~Prior to August 1, 2010, at least once per 24-hour period while the line is operating; and~~
- ii) ~~On and after August 1, 2010, at least once per calendar month while the line is operating~~

- 4) Notify the Agency in writing of any violation of Section 218.407(a)(1)(C) or (b)(1) ~~of this Subpart~~ within 30 days after the occurrence of ~~thesueh~~ violation. ~~TheSueh~~ notification ~~mustshall~~ include a copy of all records of ~~thesueh~~ violation.;
- 5) If changing its method of compliance between subsections (a)(1)(C) and (b) of Section 218.407 ~~of this Subpart~~, certify compliance for the new method of compliance in ~~complianceaceordance~~ with subsection ~~(c)(1)(d)(1) of this Section~~ at least 30 days before making ~~thesueh~~ change, and perform all tests and calculations necessary to demonstrate that ~~thesueh~~ printing lines will be in compliance with ~~the requirements of~~ Section 218.407(a)(1)(B), (a)(1)(C), (a)(1)(D), and (a)(1)(E) ~~of this Subpart~~, or Section 218.407(b) ~~of this Subpart~~, as applicable.

de) An owner or operator of a lithographic printing line subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~mustof this Subpart shall:~~

- 1) By August 1, 2010, and upon initial start-up of a new lithographic printing line, certify to the Agency that fountain solutions used on each lithographic printing line will be in compliance with the applicable VOM content limitation. ~~TheSueh~~ certification ~~mustshall~~ include:
 - A) Identification of each lithographic printing line at the source, by type, e.g., heatset web offset, non-heatset web offset, or sheet-fed offset;

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- B) Identification of each centralized fountain solution reservoir and each lithographic printing line that it serves;
 - C) A statement that the fountain solution will comply with the VOM content limitations in Section 218.407(a)(1)(A), (a)(2), or (a)(3), as applicable;
 - D) Initial documentation that each type of fountain solution will comply with the applicable VOM content limitations, including copies of manufacturer's specifications, ~~test results, if any,~~ formulation data and calculations, and any test results;
 - E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitation, e.g., a refractometer, hydrometer, conductivity meter, or recordkeeping procedures with detailed description of the compliance methodology; and
 - F) A sample of the records that will be kept underpursuant to subsection (d)(2)(e)(2) of this Section.
- 2) Collect and record ~~the following information~~ for each fountain solution:
- A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing lines or centralized reservoir using ~~thesuch~~ batch of fountain solution, and the applicable VOM content limitation for the batch;
 - B) If an owner or operator uses a hydrometer, refractometer, or conductivity meter under, pursuant to Section 218.410(b)(1)(B), to demonstrate compliance with the applicable VOM content limit in Section 218.407(a)(1)(A), (a)(2), or (a)(3) ~~of this Subpart~~:
 - i) The date and time of preparation, and each subsequent modification, of the batch;
 - ii) The results of each measurement taken in complianceaccordance with Section 218.410(b) ~~of this Subpart~~;
 - iii) Documentation of the periodic calibration of the meter in

accordance with the manufacturer's specifications, including date and time of calibration, personnel conducting the calibration, identity of standard solution, and resultant reading; and

- iv) Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting the adjustment, and results;

C) If the VOM content of the fountain solution is determined ~~underpursuant to~~ Section 218.410(b)(1)(A) ~~of this Subpart~~, for each batch of as-applied fountain solution:

- i) Date and time of preparation and each subsequent modification of the batch;
- ii) Volume or weight, as applicable, and VOM content of each component used in, or subsequently added to, the fountain solution batch;
- iii) Calculated VOM content of the as-applied fountain solution; and
- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 218.407(a)(1)(A), (a)(2) and (a)(3) ~~of this Subpart~~, as specified in the source's operating permit;

D) If the VOM content of the fountain solution is determined ~~underpursuant to~~ Section 218.410(b)(2) ~~of this Subpart~~, for each setting:

- i) VOM content limit corresponding to each setting;
- ii) Date and time of initial setting and each subsequent setting;
- iii) Documentation of the periodic calibration of the automatic feed equipment in ~~compliance~~ ~~accordance~~ with the manufacturer's specifications; and
- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in

Section 218.407(a)(1)(A), (a)(2), and (a)(3) ~~of this Subpart~~, as specified in the source's operating permit;

E) If the owner or operator relies on the temperature of the fountain solution to comply with ~~the requirements in~~ Section 218.407(a)(1)(A)(ii) or (a)(3)(B) ~~of this Subpart~~:

i) The temperature of the fountain solution at each printing line, as monitored in compliance ~~accordance~~ with Section 218.410(a); and

ii) A maintenance log for the temperature monitoring devices and automatic, continuous temperature recorders detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

3) Notify the Agency in writing of any violation of Section 218.407 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. The ~~Such~~ notification must ~~shall~~ include a copy of all records of the ~~such~~ violation.

ef) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to ~~the requirements of~~ Section 218.407 must ~~of this Subpart shall~~:

1) By August 1, 2010, and upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, other than those excluded under ~~pursuant to~~ Section 218.405(b)(3)(C) ~~218.405(e)(3)(C)~~, and the handling of all cleaning materials, will be in compliance with ~~the requirements of~~ Section 218.407(a)(4)(A) or (a)(4)(B) and (a)(5). The ~~of this Subpart, and such~~ certification must ~~shall~~ also include:

A) A statement that the cleaning solution will comply with the limitations in Section 218.407(a)(4);

B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;

C) A sample of the records that will be kept under ~~pursuant to~~ subsection (e)(2)(f)(2) ~~of this Section~~; and

D) A description of the practices that ensure that VOM-containing cleaning materials are kept in closed containers;

- 2) Collect and record the following information for each cleaning solution used on each lithographic printing line:
- A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~ ~~accordance~~ with Section 218.409(c) ~~of this Subpart~~;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.407(a)(4)(A) ~~of this Subpart~~, and that is not prepared at the source with automatic equipment:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance~~ ~~accordance~~ with Section 218.409(c) ~~of this Subpart~~;

- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests of the VOM content conducted in ~~complianceaceordanee~~ with methods ~~specified~~ in Section 218.105(a) ~~of this Part~~;

C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.407(a)(4)(B) ~~of this Subpart~~:

- i) The name and identification of each cleaning solution;
- ii) Date and time of preparation, and each subsequent modification, of the batch;
- iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in ~~complianceaceordanee~~ with Section 218.409(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests conducted in ~~complianceaceordanee~~ with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
- iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
- v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in ~~complianceaceordanee~~ with Section 218.409(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if ~~thesueh~~ manufacturer's specifications are based on results of tests conducted in ~~complianceaceordanee~~ with methods ~~specified~~ in Sections

218.105(a) and 218.110 ~~of this Part~~;

- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any; and

- 3) Notify the Agency in writing of any violation of Section 218.407 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. The ~~Such~~ notification ~~must~~ shall include a copy of all records of ~~the~~ such violation.

fg) The owner or operator of lithographic printing lines subject to at least one ~~or more~~ of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~must~~ 218.405(e)(3) ~~shall~~:

- 1) By August 1, 2010, or upon initial start-up of a new lithographic printing line that is subject to at least one ~~or more~~ of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~, whichever is later, submit a certification to the Agency that includes either:

- A) A declaration that the source is subject to at least one ~~or more~~ of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~ and a statement indicating which ~~such~~ exclusions apply to the source; or

- B) A declaration that the source will not ~~make~~ use ~~of~~ any of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~;

- 2) Unless the source has certified in ~~compliance~~ accordance with subsection ~~(f)(1)(B)(g)(1)(B) of this Section~~ that it will not ~~make~~ use ~~of~~ any of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~:

- A) Collect and record the following information for all lithographic printing lines at the source:

- i) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before using ~~the use of~~ capture systems and control devices, determined in ~~compliance~~ accordance with the calculations in subsection ~~(a)(2)(B)(b)(2)(B) of this Section~~; and

ii) The name, identification, and volume of all cleaning materials used per calendar month on lithographic printing lines at the source that do not comply with the cleaning material limitations in Section 218.407(a)(4)-~~of this Subpart~~;

B) Notify the Agency in writing if the combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever exceed 45.5 kg/day (100 lbs/day); before ~~using the use of~~ capture systems and control devices, within 30 days after the event occurs;

3) If changing from ~~using utilization of~~ the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~218.405(e)(3)~~ to opting out of ~~thesueh~~ exclusions ~~under pursuant to~~ subsection (f)(1)(B)(g)(1)(B) ~~of this Section~~, or if there is a change at the source ~~so sueh~~ that the exclusions no longer apply, certify compliance in ~~compliance accordance~~ with subsection (f)(1)(B)(g)(1)(B) ~~of this Section~~ within 30 days after making ~~thesueh~~ change, and perform all tests and calculations necessary to demonstrate that ~~thesueh~~ printing lines will be in compliance with the applicable requirements of Section 218.407 ~~of this Subpart~~; and

4) If changing from opting out of the exclusions ~~set forth~~ in Section 218.405(b)(3) ~~under 218.405(e)(3)~~ pursuant to subsection (f)(1)(B)(g)(1)(B) ~~of this Section~~ to using the utilization of sueh exclusions, certify compliance in ~~compliance accordance~~ with subsection (f)(1)(A)(g)(1)(A) ~~of this Section~~ within 30 days after making ~~thesueh~~ change.

~~gh~~) The owner or operator ~~must shall~~ maintain all records required by this Section at the source for ~~at least a minimum period of~~ three years and ~~must shall~~ make all records available to the Agency upon request.

~~hi~~) Provisions ~~to Calculate for Calculation of~~ Emissions from Heatset Web Offset Lithographic Printing Operations. To calculate VOM emissions from heatset web offset lithographic printing operations for purposes other than the applicability thresholds ~~specified~~ in Section 218.405 ~~of this Subpart~~, sources may use the following emission adjustment factors (for Annual Emissions Reports or permit limits, for example):

1) A factor of 0.80 may be used ~~to calculate in calculating~~ emissions from all

heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must~~ shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines.

- 2) To determine VOM emissions from fountain solutions that contain no alcohol, an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

- A) The VOM emitted from the fountain solution ~~must~~ shall be calculated using the following equation:

$$VOM_{fs} = 0.30 \times VOM_{tot} + (0.70 \times VOM_{tot}) \times (1 - DE)$$

where:

VOM_{tot} = Total VOM in the fountain solution;

VOM_{fs} = VOM emitted from the fountain solution;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0;

- B) For fountain solutions that contain alcohol, impervious substrates such as metal or plastic, or non-heatset lithographic presses, no emission adjustment factor is used.

- 3) To determine VOM emissions from cleaning solutions used on heatset web offset lithographic printing lines at the source, an emission adjustment factor of 0.50 may be used ~~to calculate in calculating~~ emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at ~~20 °C (68 °F)~~ ~~20 °C (68 °F)~~ and the shop towels are kept in closed containers. To determine VOM emissions from automatic blanket wash solution with a VOM composite vapor pressure of less than 10 mmHg measured at ~~20 °C (68 °F)~~ ~~20 °C (68 °F)~~, an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate.

- A) The VOM emitted from the automatic blanket wash solution ~~must~~ shall be calculated using the following equation.

$$VOM_{bw} = 0.60 \times VOM_{tot} + (0.40 \times VOM_{tot}) \times (1 - DE)$$

where:

VOM_{tot} = Total VOM in the blanket wash;

VOM_{tow} = VOM emitted from the blanket wash;

DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0.

- B) For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20 °C (68 °F), for shop towels that are not kept in closed containers, and for impervious substrates such as metal or plastic, no emission adjustment factor is used.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.412 Letterpress Printing Lines: Applicability

- a) Except ~~underas provided in~~ subsection (b) ~~of this Section~~, on and after August 1, 2010, the limitations in Sections 218.413 through 218.416 ~~of this Subpart shall~~ apply to:
- 1) All heatset web letterpress printing lines at a source if all heatset web letterpress printing lines (including solvents used for cleanup operations associated with heatset web letterpress printing lines) at the source have a total potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year; and
 - 2) All letterpress printing lines at a source where the combined emissions of VOM from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines) ~~are ever~~ at least 6.8 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control equipment, calculated in ~~compliance~~ accordance with Section 218.417(b)(1)(B).
- b) ~~Despite Notwithstanding~~ subsection (a) ~~of this Section~~, the requirements of Section 218.413(a)(2) ~~do of this Subpart shall~~ not apply to up to 416.3 ~~liters~~ (110

~~gal~~gallons) per year of cleaning materials used on letterpress printing lines at a subject source.

- c) On and after August 1, 2010, the recordkeeping and reporting requirements in Section 218.417 ~~of this Subpart shall~~ apply to all owners or operators of letterpress printing lines.
- d) If a letterpress printing line at a source is or becomes subject to at least one or more of the limitations in Section 218.413 ~~of this Subpart~~, the letterpress printing lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.413 Emission Limitations and Control Requirements for Letterpress Printing Lines

- a) ~~An~~No owner or operator of letterpress printing lines subject to ~~the requirements of~~ this Subpart must not~~shall~~:
 - 1) Cause or allow the operation of any heatset web letterpress printing line that meets the applicability requirements of Section 218.412(a)(1) unless:
 - A) The air pressure in the dryer is maintained lower than the air pressure of the press room ~~so, such~~ that air flow through all openings in the dryer, other than the exhaust, is into the dryer at all times when the printing line is operating;
 - B) An afterburner is installed and operated so that VOM emissions (excluding methane and ethane) from the press dryer exhausts are reduced ~~as follows~~:
 - i) By ~~90%90 percent~~, by weight, for afterburners first constructed at the source ~~before prior to~~ January 1, 2010;
 - ii) By ~~95%95 percent~~, by weight, for afterburners first constructed at the source on or after January 1, 2010; or
 - iii) To a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);
 - C) The afterburner complies with all monitoring provisions ~~specified~~ in Section 218.416(a) ~~of this Subpart~~; and

- 8084 D) The afterburner is operated at all times when the printing line is
 8085 ~~operating in operation~~, except the afterburner may be shut down
 8086 between November 1 and April 1 ~~under as provided in~~ Section
 8087 218.107 ~~of this Part~~;
- 8088
- 8089 2) Cause or allow the use of a cleaning solution on any letterpress printing
 8090 line unless:
- 8091
- 8092 A) The VOM content of the as-used cleaning solution is 70% or less
 8093 ~~than or equal to 70 percent~~, by weight; or
- 8094
- 8095 B) The VOM composite partial vapor pressure of the as-used cleaning
 8096 solution is less than 10 mmHg at 20 °C (68 °F) ~~20°C (68°F)~~;
- 8097
- 8098 3) Cause or allow VOM-containing cleaning materials, including used
 8099 cleaning towels, associated with any letterpress printing line to be kept,
 8100 stored, or disposed of in any manner other than in closed containers,
 8101 except when specifically in use.
- 8102
- 8103 b) An owner or operator of a heatset web letterpress printing line subject to ~~the~~
 8104 ~~requirements of~~ subsection (a)(1)(B) ~~of this Section~~ may use a control device
 8105 other than an afterburner, if:
- 8106
- 8107 1) The control device reduces VOM emissions from the press dryer exhausts
 8108 ~~as follows~~:
- 8109
- 8110 A) By 90% ~~90 percent~~, by weight, for control devices first constructed
 8111 at the source ~~before prior to~~ January 1, 2010;
- 8112
- 8113 B) By 95% ~~95 percent~~, by weight, for control devices first constructed
 8114 at the source on or after January 1, 2010; or
- 8115
- 8116 C) To a maximum control device exhaust outlet concentration of 20
 8117 ppmv (as carbon);
- 8118
- 8119 2) The owner or operator submits a plan to the Agency detailing appropriate
 8120 monitoring devices, test methods, recordkeeping requirements, and
 8121 operating parameters for the control device; and
- 8122
- 8123 3) The use of the control device in ~~compliance~~ accordance with this plan is
 8124 approved by the Agency and USEPA as federally enforceable permit
 8125 conditions.
- 8126

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.415 Testing for Letterpress Printing Lines

- a) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.413 ~~must of this Subpart shall~~ be conducted by the owner or operator by January 1, 2012, unless ~~the such~~ testing has been conducted within the two years immediately preceding January 1, 2012. ~~Testing must then~~ ~~Thereafter, testing shall~~ be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart. ~~The Such~~ testing ~~must shall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~must shall~~ notify the Agency in writing 30 days ~~before in advance of~~ conducting ~~the such~~ testing to allow the Agency to be present during ~~the such~~ testing.
- b) The methods and procedures of Section 218.105(d) and (f) ~~must shall~~ be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, as follows:
 - 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust ~~must shall~~ be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60. Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60. Appendix A-760, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and

- 8170 C) Due to the high efficiency of the control device, the anticipated
8171 VOM concentration at the control device exhaust is 50 ppmv or
8172 less, as carbon, regardless of inlet concentration. If the source
8173 elects to use Method 25A under this option, the exhaust VOM
8174 concentration must be 50 ppmv or less, as carbon, and the required
8175 destruction efficiency must be met for the source to have
8176 demonstrated compliance. If the Method 25A test results show
8177 that the required destruction efficiency apparently has been met,
8178 but the exhaust concentration is above 50 ppmv, as carbon, a retest
8179 is required. The retest ~~must~~ shall be conducted using either Method
8180 25 or Method 25A. If the retest is conducted using Method 25A
8181 and the test results again show that the required destruction
8182 efficiency apparently has been met, but the exhaust concentration
8183 is above 50 ppmv, as carbon, the source must retest using Method
8184 25;
- 8185
- 8186 4) ~~Despite~~ ~~Notwithstanding~~ the criteria or requirements in Method 25 which
8187 ~~specify~~ ~~specifies~~ a minimum probe temperature of ~~129 °C (265 °F)~~ ~~129°C~~
8188 ~~(265°F)~~, the probe must be heated to at least the gas stream temperature of
8189 the dryer exhaust, typically close to ~~176.7 °C (350 °F)~~ ~~176.7°C (350°F)~~;
- 8190
- 8191 5) During testing, the printing lines ~~must~~ shall be operated at representative
8192 operating conditions and flow rates; and
- 8193
- 8194 6) During testing, an air flow direction indicating device, such as a smoke
8195 stick, ~~must~~ shall be used to demonstrate ~~100%~~ ~~100-percent~~ emissions
8196 capture efficiency for the dryer in ~~compliance~~ ~~accordance~~ with Section
8197 218.413(a)(1)(A) ~~of this Subpart~~.
- 8198
- 8199 c) Testing to demonstrate compliance with the VOM content limitations in Section
8200 218.413(a)(2)(A) ~~of this Subpart~~, and to determine the VOM content of cleaning
8201 solvents, cleaning solutions, and inks ~~under (pursuant to the requirements of~~
8202 ~~Section 218.417(b)(1)(B) must of this Subpart)~~, shall be conducted upon request of
8203 the Agency, or as otherwise specified in this Subpart, as follows:
- 8204
- 8205 1) The applicable test methods and procedures ~~specified~~ in Section
8206 218.105(a) ~~must of this Part shall~~ be used; ~~provided~~, however, Method 24,
8207 incorporated by reference in Section 218.112 ~~of this Part~~, ~~must~~ shall be
8208 used to demonstrate compliance; or
- 8209
- 8210 2) The manufacturer's specifications for VOM content for cleaning solvents
8211 and inks may be used if ~~the~~ ~~such~~ manufacturer's specifications are based on
8212 results of tests of the VOM content conducted in ~~compliance~~ ~~accordance~~

with methods ~~specified~~ in Section 218.105(a) ~~of this Part~~; ~~provided,~~
however, Method 24 ~~must~~shall be used to determine compliance.

- d) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.413(b) ~~must of this Subpart shall~~ be conducted ~~under as set forth in~~ the ~~owner's owner~~ or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions ~~under pursuant to~~ Section 218.413(b) ~~of this Subpart~~.
- e) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions ~~must~~shall be conducted in ~~compliance accordance~~ with the applicable methods and procedures ~~specified~~ in Section 218.110 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.416 Monitoring Requirements for Letterpress Printing Lines

- a) Afterburners for Heatset Web Letterpress Printing Lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to Section 218.413(a)(1)(B) ~~must of this Subpart shall~~:
 - 1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of ~~3 °C or 5 °F~~3°C or 5°F on the afterburner in ~~compliance accordance~~ with Section 218.105(d)(2) ~~of this Part~~ and in ~~compliance accordance~~ with the manufacturer's specifications. Monitoring ~~must~~shall be performed at all times when the afterburner is operating; and
 - 2) Install, calibrate, operate, and maintain, in ~~compliance accordance~~ with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- b) Other Control Devices for Heatset Web Letterpress Printing Lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to this Subpart ~~must~~shall install, maintain, calibrate, and operate ~~the such~~ monitoring equipment ~~under as set forth in~~ the ~~owner's owner~~ or operator's plan approved by the Agency and USEPA ~~under pursuant to~~ Section 218.413(b) ~~of this Subpart~~.
- c) Cleaning Solution

- 1) The owner or operator of any letterpress printing line relying on the VOM content of the cleaning solution to comply with Section 218.413(a)(2)(A) ~~of this Subpart~~ must:
- A) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
- i) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance~~~~accordance~~ with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
- ii) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.413(a)(2)(A) ~~of this Subpart~~;
- B) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the ~~use~~~~usage~~ of cleaning solvent and water (or other non-VOM) ~~underas set forth in~~ Section 218.417(c)(2) ~~of this Subpart~~.
- 2) The owner or operator of any letterpress printing line relying on the vapor pressure of the cleaning solution to comply with Section 218.413(a)(2)(B) ~~of this Subpart~~ must keep records for ~~thesuch~~ cleaning solutions used on any such lines ~~underas set forth in~~ Section 218.417(e)(2)(C) ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.417 Recordkeeping and Reporting for Letterpress Printing Lines

- a) By August 1, 2010, or upon initial start-up of a new heatset web letterpress printing line, whichever is later, and upon ~~modifying~~~~modification of~~ a heatset web letterpress printing line, an owner or operator of a heatset web letterpress printing line exempt from any of the limitations of Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) ~~must~~~~shall~~ submit a certification to the Agency that includes:

- 8295 1) A declaration that the source is exempt from ~~the requirements in~~ Section
8296 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) ~~of~~
8297 ~~this Subpart~~;
- 8298
- 8299 2) Calculations which demonstrate that the source's total potential to emit
8300 VOM ~~is less than~~ ~~does not equal or exceed~~ 22.7 Mg (25 tons) per year.
- 8301
- 8302 b) An owner or operator of a letterpress printing line exempt from any of the
8303 limitations of Section 218.413 ~~of this Subpart~~ because of the criteria in Section
8304 218.412(a)(2) must ~~shall~~:
- 8305
- 8306 1) By August 1, 2010, or upon initial start-up of a new letterpress printing
8307 line, whichever is later, and upon ~~modifying~~ ~~modification of~~ a letterpress
8308 printing line, submit a certification to the Agency that includes the
8309 information ~~specified in either~~ subsections (b)(1)(A) through (b)(1)(C) ~~of~~
8310 ~~this Section~~, or subsections (b)(1)(A) and (b)(1)(D) ~~of this Section~~, as
8311 applicable:
- 8312
- 8313 A) A declaration that the source is exempt from the control
8314 requirements in Section 218.413 ~~of this Part~~ because of the criteria
8315 in Section 218.412(a)(2) ~~of this Subpart~~;
- 8316
- 8317 B) Calculations that demonstrate that combined emissions of VOM
8318 from all letterpress printing lines (including inks and solvents used
8319 for cleanup operations associated with the letterpress printing
8320 lines) at the source ~~are less than~~ ~~never equal or exceed~~ 6.8 kg/day
8321 (15 lbs/day) ~~without, in the absence of~~ air pollution control
8322 equipment, as follows:
- 8323
- 8324 i) To calculate daily emissions of VOM, the owner or
8325 operator must ~~shall~~ determine the monthly emissions of
8326 VOM from all letterpress printing lines at the source
8327 (including solvents used for cleanup operations associated
8328 with the letterpress printing lines) and divide this amount
8329 by the number of days during that calendar month that
8330 letterpress printing lines at the source were operating ~~in~~
8331 ~~operation~~;
- 8332
- 8333 ii) To determine the VOM content of the inks and cleaning
8334 solvents, the tests methods and procedures ~~set forth~~ in
8335 Section 218.415(c) must ~~of this Subpart shall~~ be used;
- 8336

- iii) To determine VOM emissions from inks used on letterpress printing lines at the source, an ink emission adjustment factor of 0.05 ~~must~~shall be used ~~to calculate~~in calculating emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 ~~must~~shall be used ~~to calculate~~in calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, ~~must~~shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines; and
- iv) To determine VOM emissions from cleaning solutions used on letterpress printing lines at the source, an emission adjustment factor of 0.50 ~~must~~shall be used ~~to calculate~~in calculating emissions from used shop towels, if the VOM composite vapor pressure of each associated cleaning solution is less than 10 mmHg measured at 20 °C (68 °F)~~20°C (68°F)~~ and the shop towels are kept in closed containers. Otherwise, no retention factor is used;
- C) A description and the results of all tests used to determine the VOM content of inks and cleaning solvents, and a declaration that ~~these~~such tests have been properly conducted in ~~compliance~~accordance with Section 218.415(c)(1)~~of this Subpart~~;
- D) As an alternative to the calculations in subsection (b)(1)(B), a statement that the source uses less than the amount of material ~~specified~~ in subsections (b)(1)(D)(i) or (b)(1)(D)(ii), as applicable, during each calendar month. A source may determine that it emits ~~less than~~below 6.8 kg/day (15 lbs/day) of VOM based upon compliance with ~~these~~such material use limitations. If the source exceeds this amount of material use in a ~~given~~ calendar month, the owner or operator must, within 15 days ~~after~~of the end of that month, complete the emissions calculations of subsection (b)(1)(B) to determine daily emissions for applicability purposes. If the source ever exceeds this amount of material use for six consecutive calendar months, it is no longer eligible to use this subsection as an alternative to the calculations in subsection (b)(1)(B).

- i) The sum of all sheetfed and nonheatset web letterpress printing operations at the source: 242.3 ~~liters~~ (64 ~~galgallons~~) of cleaning solvent; or
 - ii) The sum of all heatset web letterpress printing operations at the source: 204.1 kg (450 lbs) of ink and cleaning solvent;
 - 2) For sources complying with subsection (b)(1)(B) ~~of this Section~~, notify the Agency in writing if the combined emissions of VOM from all letterpress printing lines (including inks and solvents used for cleanup operations associated with the letterpress printing lines) at the source ever equal or exceed 6.8 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control equipment, within 30 days after the event occurs;
 - 3) For sources complying with subsection (b)(1)(D) ~~of this Section~~, comply with the following:
 - A) Maintain material use records showing that the source uses less than the amount of material ~~specified~~ in subsections (b)(1)(D)(i) and (b)(1)(D)(ii) during each calendar month, or, if the source exceeds the material use limitations, records showing that the source exceeded the limitations but ~~emitted less than~~ ~~did not emit~~ 6.8 kg/day (15 lbs/day) ~~or more~~ of VOM. On and after January 1, 2012, ~~thesueh~~ records ~~mustshall~~ include the name, identification number, and VOM content of each cleaning solvent and ink used per calendar month, the volume of each cleaning solvent used per calendar month for each sheetfed and nonheatset web letterpress printing operation, and the weight of each cleaning solvent and ink used per calendar month for each heatset web letterpress printing operation;
 - B) Notify the Agency in writing if the source exceeds the material use limitations for six consecutive calendar months, or if the source changes its method of compliance from subsection (b)(1)(D) to subsection (b)(1)(B) ~~of this Section~~, within 30 days after the event occurs.
 - c) Unless complying with subsections (b)(1)(D) and (b)(3) ~~of this Section~~, on and after August 1, 2010, an owner or operator of a letterpress printing line exempt from any of the limitations in Section 218.413 ~~of this Subpart~~ because of the criteria in Section 218.412(a)(1) or (a)(2) ~~mustshall~~ collect and record ~~either~~ the information ~~specified~~ in ~~either~~ subsection (c)(1) or (c)(2) ~~of this Section~~ for all letterpress printing lines at the source:

- 1) Standard recordkeeping, including ~~the following~~:
 - A) The name and identification of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) A daily record that shows whether a letterpress printing line at the source was ~~operating in operation~~ on that day;
 - C) The VOM content and the volume of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - D) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment) used at the source, calculated each month; and
 - E) The VOM emissions in lbs/day for the month, calculated in ~~compliance accordance~~ with subsection (b)(1)(B) ~~of this Section~~;
- 2) Purchase and inventory recordkeeping, including ~~the following~~:
 - A) The name, identification, and VOM content of each letterpress ink and cleaning solvent used on any letterpress printing line, recorded each month;
 - B) Inventory records from the beginning and end of each month indicating the total volume of each letterpress ink, and cleaning solvent to be used on any letterpress printing line at the source;
 - C) Monthly purchase records for each letterpress ink and cleaning solvent used on any letterpress printing line at the source;
 - D) A daily record that shows whether a letterpress printing line at the source was ~~operating in operation~~ on that day;
 - E) The total VOM emissions at the source each month, determined as the sum of the product of usage and VOM content for each cleaning solvent and letterpress ink (with the applicable ink VOM emission adjustment factor) used at the source, calculated each month based on the monthly inventory and purchase records

required to be maintained ~~underpursuant to~~ subsections (c)(2)(A), (c)(2)(B), and (c)(2)(C) ~~of this Section~~; and

- F) The VOM emissions in lbs/day for the month, calculated in ~~complianceaceordance~~ with subsection (b)(1)(B) ~~of this Section~~;
 - d) An owner or operator of a heatset web letterpress printing lines subject to the control requirements of Section 218.413(a)(1)(B) or (b)(1) ~~mustof this Subpart shall~~ comply with the following:
 - 1) By August 1, 2010, or upon initial start-up of a new printing line, whichever is later, and upon initial start-up of a new control device for a heatset web printing line, submit a certification to the Agency that includes ~~the following~~:
 - A) An identification of each heatset web letterpress printing line at the source;
 - B) A declaration that each heatset web letterpress printing line is in compliance with ~~the requirements of~~ Section 218.413 (a)(1) or (b) ~~of this Subpart~~, as appropriate;
 - C) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, and the date that ~~thesueh~~ device was first constructed at the subject source;
 - D) The control requirements in Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~ with which the letterpress printing line is complying;
 - E) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, as applicable; and
 - F) A declaration that the monitoring equipment required under Section 218.413(a)(1)(C) or (b) ~~of this Subpart~~, as applicable, has been properly installed and calibrated according to manufacturer's specifications;
 - 2) If testing of the afterburner or other approved control device is conducted ~~underpursuant to~~ Section 218.415(b) ~~of this Subpart~~, the owner or operator ~~mustshall~~, within 90 days after conducting ~~thesueh~~ testing, submit a copy

of all test results to the Agency and ~~shall submit~~ a certification to the Agency that includes ~~the following~~:

- A) A declaration that all tests and calculations necessary to demonstrate whether the letterpress printing lines is in compliance with Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, as applicable, have been properly performed;
 - B) A statement whether the heatset web letterpress printing lines are or are not in compliance with Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~, as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in ~~compliance~~ ~~accordance~~ with Section 218.416(a) or (b) ~~of this Subpart~~, as applicable;
- 3) Except ~~under as provided in~~ subsection (d)(3)(D) ~~of this Section~~, collect and record daily the following information for each heatset web letterpress printing line subject to ~~the requirements of~~ Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~:
- A) Afterburner or other approved control device monitoring data in ~~compliance~~ ~~accordance~~ with Section 218.416(a) or (b) ~~of this Subpart~~, as applicable;
 - B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
 - C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages; and
 - D) A log detailing checks on the air flow direction or air pressure of the dryer and press room to ensure compliance with ~~the requirements of~~ Section 218.413(a)(1)(A) ~~of this Subpart~~ at least once per calendar month while the line is operating;
- 4) Notify the Agency in writing of any violation of Section 218.413(a)(1)(B) or (b)(1) ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~

violation. ~~The~~Such notification ~~must~~shall include a copy of all records of ~~the~~such violation;

- 5) If changing the method of compliance between Sections 218.413(a)(1)(B) and 218.413(b) ~~of this Subpart~~, certify compliance for the new method of compliance ~~underin accordance with~~ Section 218.413(b) at least 30 days before making ~~the~~such change, and perform all tests and calculations necessary to demonstrate that ~~the~~such printing lines will be in compliance with ~~the requirements of~~ Section 218.413(a)(1) ~~of this Subpart~~, or Section 218.413(b) ~~of this Subpart~~, as applicable.

- e) For letterpress printing line cleaning operations, an owner or operator of a letterpress printing line subject to ~~the requirements of~~ Section 218.413 ~~must~~of this Subpart shall:

- 1) By August 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, certify to the Agency that all cleaning solutions, other than those excluded ~~underpursuant to~~ Section 218.412(b), and the handling of all cleaning materials will be in compliance with ~~the requirements of~~ Section 218.413(a)(2)(A) or (a)(2)(B) and (a)(3) ~~of this Subpart~~. ~~The~~Such certification ~~must~~shall include:

- A) A statement that the cleaning solution will comply with the limitations in Section 218.413(a)(2);
- B) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
- C) A sample of the records that will be kept ~~underpursuant to~~ subsection (e)(2) ~~of this Section~~; and
- D) A description of the practices that ensure that VOM-containing cleaning materials are kept in closed containers;

- 2) Collect and record the following information for each cleaning solution used on each letterpress printing line:

- A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.413(a)(2)(A) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;

- ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.415(c) ~~of this Subpart~~;
- iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
- v) The VOM content of the as-used cleaning solution, with supporting calculations; and
- vi) A calibration log for the automatic equipment, detailing periodic checks;

B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.413(a)(2)(A) ~~of this Subpart~~, and that is not prepared at the source with automatic equipment:

- i) The name and identification of each cleaning solution;
- ii) Date and time of preparation, and each subsequent modification, of the batch;
- iii) The VOM content of each cleaning solvent in the cleaning solution, as determined in compliance with Section 218.415(c) ~~of this Subpart~~;
- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if ~~the~~ such manufacturer's specifications are based on results of tests of the VOM

content conducted in compliance with methods specified in Section 218.105(a) ~~of this Part~~;

- C) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 218.413(a)(2)(B) ~~of this Subpart~~:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent modification, of the batch;
 - iii) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in compliance with Section 218.415(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if such manufacturer's specifications are based on results of tests conducted in compliance with methods specified in Sections 218.105(a) and 218.110 ~~of this Part~~;
 - iv) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - v) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in compliance with Section 218.415(e) ~~of this Subpart~~. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM composite partial vapor pressure may be used if such manufacturer's specifications are based on results of tests conducted in compliance with methods ~~specified~~ in Sections 218.105(a) and 218.110 ~~of this Part~~;
- D) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any;

E) The amount of cleaning materials used on letterpress printing lines at the source that do not comply with the cleaning material limitations ~~set forth~~ in Section 218.413(a)(2) ~~of this Subpart~~;

3) Notify the Agency in writing of any violation of Section 218.413 ~~of this Subpart~~ within 30 days after the ~~occurrence of such~~ violation. ~~The~~ Such notification ~~must~~ include a copy of all records of ~~the~~ such violation.

f) The owner or operator ~~must~~ maintain all records required by this Section at the source for ~~at least a minimum period of~~ three years and ~~must~~ make all records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

Section 218.421 General Requirements

The owner or operator of a plant which processes more than ~~3,660 Mg/yr~~ ~~3660 mg/yr~~ (4,033,403 tons/year) gaseous and light liquid VOM, and whose components are used to manufacture the synthetic organic chemicals or polymers listed in Appendix A, ~~must~~ comply with this Subpart. ~~This~~ ~~The provisions of this~~ Subpart ~~applies~~ ~~are applicable~~ to components containing ~~at least 10%~~ ~~10 percent or more~~ by weight VOM as determined by ASTM ~~methods E168-16 (2023)~~ ~~method E-168~~, ~~E169-16 (2022)~~ ~~E-169~~ and ~~E260-96 (2019)~~ ~~E-260~~, incorporated by reference in Section 218.112 ~~of this Part~~. Those components that are not process unit components are exempt from this Subpart. A component ~~is~~ ~~shall be~~ considered ~~to be~~ leaking if the VOM is ~~at least equal to, or is greater than~~ 10,000 ppmv as methane or hexane as determined by USEPA Reference Method 21, ~~as specified at 40 CFR 60. Appendix 60, Appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~, ~~there is an~~ indication of liquids dripping, or ~~indication by~~ a sensor ~~indicates~~ that a seal or barrier fluid system has failed. ~~This~~ ~~The provisions of this~~ Subpart ~~does~~ ~~are~~ not ~~apply~~ ~~applicable~~ if the equipment components are used to produce heavy liquid chemicals only from heavy liquid feed or raw materials.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.422 Inspection Program Plan for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 218.421 ~~must~~ ~~of this Part~~ ~~shall~~ prepare an inspection program plan which contains, at a minimum:

a) An identification of all components and the period in which each will be

monitored ~~underpursuant to~~ Section 218.423 ~~of this Part.~~

- b) The format for the monitoring log required by Section 218.425 ~~of this Part.~~
- c) A description of the monitoring equipment to be used when complying with Section 218.423 ~~of this Part~~; and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, all leaking components, and components exempted under Section 218.423(j) ~~so of this Part such~~ that they are obvious and can be located by both plant personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.423 Inspection Program for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to this Subpart ~~must~~ shall, to detect ~~for the purposes of detecting~~ leaks, conduct a component inspection program using the test methods ~~specified~~ in Method 21, 40 CFR ~~60. Appendix A-760, Appendix A (1986),~~ incorporated by reference in Section 218.112 ~~of this Part~~, consistent with the following provisions:

- a) Test annually ~~the~~ those components operated near extreme temperature or pressure ~~which such that they~~ would be unsafe to routinely monitor and ~~the~~ those components which would require ~~elevating the elevation of~~ monitoring personnel higher than two meters above permanent worker access structures or surfaces.
- b) Test quarterly all other pressure relief valves in gas service, pumps in light liquid service, valves in light liquid service and in gas service, and compressors.
- c) If ~~2% or fewer~~ less than or equal to 2 percent of the valves in light liquid service and in gas service tested ~~underpursuant to~~ subsection (b) ~~of this Section~~ are found to leak for five consecutive quarters, no leak tests ~~is~~ shall be required for ~~the next~~ three consecutive quarters, after which, Thereafter, leak tests ~~must~~ shall resume for the next quarter. If that test shows ~~2% or fewer~~ less than or equal to 2 percent of the valves in light liquid service and in gas service are leaking, then no tests are required for the next three quarters. If more than ~~2% 2 percent~~ are leaking, then tests are required for the next five quarters.
- d) Observe visually all pump seals weekly.
- e) Test immediately any pump seal from which liquids are observed dripping.

- 8762
- 8763 f) Test any relief valve within 24 hours after it has vented to the atmosphere.
- 8764
- 8765 g) Routine instrument monitoring of flanges, valves which are not externally
- 8766 regulated, ~~flanges~~, and equipment in heavy liquid service; is not required.
- 8767 However, any flange, valve which is not externally regulated, ~~flange~~ or piece of
- 8768 equipment in heavy liquid service that is found to be leaking on the basis of sight,
- 8769 smell, or sound ~~must~~shall be repaired as soon as practicable but ~~within no later~~
- 8770 ~~than~~ 30 days after the leak is found.
- 8771
- 8772 h) Test immediately after repair any component that was found leaking.
- 8773
- 8774 i) Within one hour of ~~detecting a leak~~its detection, a weatherproof, readily visible
- 8775 tag, in bright colors such as red or yellow ~~and~~, bearing an identification number
- 8776 and the date on which the leak was detected, must be affixed on the leaking
- 8777 component and remain in place until the leaking component is repaired.
- 8778
- 8779 j) The following components are exempt from the monitoring requirements in this
- 8780 Section:
- 8781
- 8782 1) Any component ~~that is~~ in vacuum service; and
- 8783
- 8784 2) Any pressure relief valve ~~that is~~ connected to an operating flare header or
- 8785 vapor recovery device.
- 8786

8787 (Source: Amended at 50 Ill. Reg. _____, effective _____)

8788

8789 Section 218.424 Repairing Leaks

8790

8791 All leaking components must be repaired and retested as soon as practicable but ~~within no later~~

8792 ~~than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the

8793 process unit is shut down. Records of repairing and retesting must be maintained in

8794 ~~compliance~~accordance with ~~Sections~~Section 218.425 and 218.426 ~~of this Part~~.

8795

8796 (Source: Amended at 50 Ill. Reg. _____, effective _____)

8797

8798 Section 218.425 Recordkeeping for Leaks

8799

- 8800 a) The owner or operator of a synthetic organic chemical or polymer manufacturing
- 8801 plant ~~must~~shall maintain a leaking components monitoring log which ~~must~~shall
- 8802 contain, at a minimum, ~~the following information~~:
- 8803
- 8804 1) The name of the process unit where the component is located;

- 2) The type of component (e.g., valve, seal);
 - 3) The identification number of the component;
 - 4) The date on which a leaking component is discovered;
 - 5) The date on which a leaking component is repaired;
 - 6) The date and instrument reading of the recheck procedure after a leaking component is repaired;
 - 7) A record of the calibration of the monitoring instrument;
 - 8) The identification number of leaking components which cannot be repaired until process unit shutdown; and
 - 9) The total number of valves in light liquid service and in gas service inspected; and the total number and ~~the~~ percentage of these valves found leaking during the monitoring period.
- b) Copies of the monitoring log must~~shall~~ be retained by the owner or operator for at least a minimum of two years after the date on which the record was made or the report was prepared.
- c) Copies of the monitoring log must~~shall~~ be made available to the Agency, upon verbal or written request, before~~prior to~~ or at the time of inspection under~~pursuant to~~ Section 4(d) of the Environmental Protection Act [415 ILCS 5/4(d)](Act) (Ill. Rev. Stat. 1991, ch. 111½, pars. 1001 et seq.) [415 ILCS 5/1 et seq.] at any reasonable time.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.426 Report for Leaks

The owner or operator of a synthetic organic chemical or polymer manufacturing plant subject to Section 218.421 through 218.430 must~~of this Part shall~~:

- a) Submit quarterly reports to the Agency by~~on or before~~ March 31, June 30, September 30, and December 31 of each year, listing:
 - 1) All~~all~~ leaking components identified under~~pursuant to~~ Section 218.423 of this Part~~of~~ but not repaired within 15 days;

- 2) ~~All~~ leaking components awaiting process unit shutdown;
- 3) ~~The~~ total number of components inspected;
- 4) ~~The~~ type of components inspected; ~~and~~
- 5) ~~The~~ total number of components found leaking;
- 6) ~~The~~ total number of valves in light liquid service and in gas service inspected; and
- 7) ~~The~~ number and percentage of valves in light liquid service and in gas service found leaking.

- b) Submit a signed statement with the report attesting that all monitoring and repairs were performed as required under Section 218.421 through 218.427 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.427 Alternative Program for Leaks

The Agency ~~may~~shall approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in this Subpart ~~if an owner or operator of a plant demonstrates upon a demonstration by the owner or operator of such plant~~ that the alternative program will provide source personnel and Agency personnel with an equivalent ability to identify and repair leaking components. Any alternative program can be allowed if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.428 Open-Ended Valves

- a) Each open-ended valve ~~must~~shall be equipped with a cap, blind flange, plug, or a second valve, except during operations requiring fluid flow through the open-ended valve.
- b) Each open-ended valve equipped with a second valve ~~must~~shall be operated ~~so in a manner such~~ that the valve on the process fluid end is closed before the second valve is closed.
- c) Components which are open-ended valves and which serve as a sampling connection ~~must~~shall be controlled ~~so such~~ that they comply with subsection

(c)(1), (c)(2), or (c)(3) ~~below~~. This requirement does not apply to in-situ sampling systems.

- 1) A closed purge system or closed vent system ~~must~~ shall return purged process fluid to the process line with no detectable VOM emissions to the atmosphere; ~~or~~
- 2) A closed purge system or closed vent system ~~must~~ shall collect and recycle purged process fluid to the process line with no detectable VOM emissions to the atmosphere; ~~or~~
- 3) Purged process fluid ~~must~~ shall be transported to a control device that complies with ~~the requirements of~~ Section 218.429 ~~of this Part~~. If a container is used to transport purged process fluid to the control device, the container ~~must~~ shall be a closed container designed and used to reduce the VOM emissions vented from purged process fluid after transfer to no detectable VOM emissions as determined by USEPA Reference Method 21, ~~as specified in~~ 40 CFR ~~60, Appendix A-7, 60, Appendix A (1990 or 1991)~~ incorporated by reference in Section 218.112 ~~of this Part~~. For ~~purposes of~~ this Section, the phrase "after transfer" ~~refers~~ shall refer to the time at which the entire amount of purged process fluid resulting from a flushing or cleaning of the sample line enters the container; ~~provided,~~ however, that purged process fluid may be transferred from the initial container to another closed container ~~before~~ prior to disposal, e.g., to a bulk waste storage container.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.429 Standards for Control Devices

Control devices used to comply with Section 218.428(c) ~~must of this Part~~ shall comply with the following:

- a) If the control device is a vapor recovery system (for example, condensers and adsorbers), it ~~must~~ shall be designed and operated to recover the VOM emissions vented to it with at least a 95%an efficiency ~~of 95 percent or greater~~.
- b) If the control device is an enclosed combustion device, it ~~must~~ shall be designed and operated to reduce the VOM emissions vented to it with at least a 95%an efficiency ~~of 95 percent or greater~~, or to provide a minimum residence time of 0.75 seconds at a minimum temperature of 816 °C ~~816° C~~.
- c) If the control device is a flare, it ~~must~~ shall:

- 1) Be designed for and operated with no visible emissions as determined by USEPA Reference Method 22, 40 CFR ~~60.Appendix A-760, Appendix A (1986)~~, incorporated by reference in Section 218.112, except for periods ~~up to not to exceed~~ a total of ~~five~~5 minutes during any ~~two~~2 consecutive hours.
- 2) Be operated with a pilot flame present at all times and ~~shall be~~ monitored with a thermocouple or any other equivalent device to detect the presence of the pilot flame.
- 3) Be steam-assisted, air assisted, or nonassisted.
- 4) Be used only with the net heating value of the gas being combusted ~~at being~~ 11.2 MJ/scm (300 ~~btu/scf~~Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted ~~at being~~ 7.45 MJ/scm or greater if the flare is nonassisted. The net heating value of the gas being combusted ~~must shall~~ be calculated using the following equation:

$$H_r = K \sum_{i=1}^n C_i H_i$$

Where:

H_r = Net heating value of the sample in MJ/scm; where the net enthalpy per mole of offgas is based on combustion at ~~25 °C~~25°C and 760 ~~mmHg~~mm-Hg, but the standard temperature for determining the volume corresponding to one mole is ~~20 °C~~20°C;

K = Constant, 1.740×10^{-7} (1/ppm) (g-mole/scm) (MJ/Kcal)

where

standard temperature for (g-mole/scm) is ~~20 °C~~20°C;

C_i = Concentration of sample component i, in ppm, as measured by USEPA Reference Method 18, 40 CFR ~~60.Appendix A-660, Appendix A (1986), and ASTM D 2504-83, both~~ incorporated by reference in Section 218.112;

H_i = Net heat of combustion of sample component i, kcal/g

mole. The heats of combustion may be determined using ASTM D~~4809-18-2382-83~~, incorporated by reference in Section 218.112~~-of this Part~~, if published values are not available or cannot be calculated.

- 5) Steam-assisted and nonassisted flares ~~mustshall~~ be designed and operated with an exit velocity, ~~as~~ determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by USEPA Reference Method 2 or 2A, 40 CFR ~~60.Appendix A-1,60,Appendix A (+1986)~~ incorporated by reference in Section 218.112~~-of this Part~~, as appropriate, by the unobstructed (free) cross sectional area of the flare tip, ~~that is~~ less than 18 m/sec (60 ft/sec).

- 6) Air-assisted flares ~~mustshall~~ be designed and operated with an exit velocity less than the maximum permitted velocity, $V_{\max}$, as determined by the following equation:

$$V_{\max} = 8.706 + 0.7084 (H_r);$$

$V_{\max}$ = Maximum permitted velocity, m/se;

8.706 = Constant;

0.7084 = Constant;

H_r = The net heating value as determined in subsection (c)(4).

- d) The owner or operator must maintain the following information pertaining to closed vent systems and control devices subject to Section 218.429~~-shall be maintained by the owner or operator~~. These records ~~mustshall~~ be updated as necessary to describe current operation and equipment. The records ~~mustshall~~ be retained at a readily accessible location at the source for ~~at least a minimum of~~ two years after the control device is permanently ~~shut down~~~~shutdown~~.

- 1) Detailed schematics, design specifications, and piping and instrumentation diagrams;
- 2) The dates and description of any changes in design specifications;
- 3) A description of the parameter or parameters monitored and recorded as required in subsection (f)(1) to ensure that the control devices are operated and maintained in conformance with their design, and an explanation why that parameter (or parameters) was selected for monitoring.

- e) The control device ~~must~~shall be operated at all times when emissions may be vented to it.
- f) Owners and operators of control devices used to comply with this Subpart ~~must~~shall monitor each control device to ensure that the control device is operated and maintained in conformance with its designs at all times that emissions may be vented to it. This monitoring ~~must~~shall be conducted in ~~compliance~~accordance with Section 218.429(d)(3). The records prepared as part of this monitoring activity ~~must~~shall include the dates of startup and shutdown of control devices and identify periods when the devices are not operated as designed, including periods when a flare pilot light does not have a flame.
- g) ~~Subsections~~The requirements of subsections (d), (e), and (f) ~~do~~shall not apply to a combustion device located at the source used ~~to dispose~~for disposal of purged process fluid which is subject to the Burning of Hazardous Waste in Boilers and Industrials Furnaces (BIF) rules, 40 CFR ~~Parts~~ 260, 261, 264, 265, 266, and 270, or which is subject to the Resource Conservation and Recovery Act (RCRA) rules, 35 Ill. Adm. Code ~~Parts~~ 703, 720, 721, 724, 725, and 726. The owner or operator of ~~the~~such combustion device ~~must~~shall satisfy applicable provisions of the RCRA or BIF rules.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.431 Applicability

- a) ~~The provisions of~~Sections 218.431 through 218.436 ~~of this Subpart shall~~ apply to:
- 1) Every owner or operator of any chemical manufacturing process unit that manufactures; as a primary product ~~at least~~; one ~~or more~~ of the chemicals listed in Appendix A, ~~of this Part~~ and that chemical manufacturing process unit causes or allows any reactor or distillation unit, either individually or in tandem, to discharge ~~at least~~ one ~~or more~~ process vent ~~stream~~streams either directly to the atmosphere or to a recovery system; and
 - 2) All continuous distillation and reactor process emission units not subject to Section 218.520 through 218.527 ~~of this Part~~, and located within Stepan Company's Millsdale manufacturing facility, Elwood, ~~Illinois~~.
- b) ~~Despite~~Notwithstanding subsection (a) ~~of this Section~~, the control requirements ~~of set forth within~~ Section 218.432 ~~do of this Subpart shall~~ not apply to ~~the~~ following:

- 1) Any process vent stream with a total resource effectiveness (TRE) index value greater than 1.0. However, ~~thesueh~~ process vent stream remains subject to the performance testing requirements ~~contained~~ in Section 218.433 ~~of this Subpart~~ and the reporting and recordkeeping requirements ~~contained~~ in Section 218.435 ~~of this Subpart~~;
- 2) Any reactor or distillation unit that is designed and operated as a batch operation;
- 3) Any reactor or distillation unit that is part of a polymer manufacturing operation;
- 4) Any reactor or distillation unit that is part of the chemical manufacturing process unit with a total design capacity of less than 1 gigagram (1,100 tons) per year for all chemicals produced; as a primary product; within that process unit. However, ~~thesueh~~ operations remain subject to the reporting and recordkeeping requirements ~~contained~~ in Section 218.435(d) ~~of this Subpart~~;
- 5) Any vent stream with a flow rate less than 0.0085 scm/min or a total VOM concentration of less than 500 ppmv, ~~excludingless~~ methane and ethane, as measured by Method 18, or a concentration of VOM of less than 250 ppmv as measured by Method 25A. However, ~~thesueh~~ operations remain subject to the performance testing requirement ~~listed~~ in Section 218.433 ~~and of this Subpart, as well as~~ the reporting and recordkeeping requirements ~~contained~~ in Section 218.435 ~~of this Subpart~~; or
- 6) Any reactor or distillation unit included within an Early Reduction Program, as specified in 40 CFR 63, and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.432 Control Requirements

- a) Every owner or operator of a source subject to ~~the requirements of~~ this Subpart, as determined by Section 218.431 ~~of this Subpart~~, ~~must~~shall either:
 - 1) Reduce emissions of VOM, ~~excludingless~~ methane or ethane, by 98% by weight ~~98-weight-percent~~, or to 20 ppmv; on a dry basis; corrected to 3%3 ~~percent~~ oxygen, whichever is less stringent;

- 2) If a boiler or process heater is used to comply with this Subpart, the vent stream ~~must~~shall be introduced into the flame zone of the boiler or process heater; or
- 3) If a flare is used to comply with this Subpart, it ~~must~~shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~. The flare operation requirements of 40 CFR 60.18 do not apply if a process, not subject to this Subpart, vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with at least one ~~or more~~ of the provisions of 40 CFR 60.18.

b) ~~Despite~~Notwithstanding subsection (a) or (c) ~~of this Section~~, and subject to subsection (b)(2) ~~of this Section~~:

- 1) ~~An~~No owner or operator of a source subject to Section 218.432 must not~~of~~ ~~this Subpart shall~~ cause or allow VOM to be emitted through an existing control device unless the control device is operated to achieve:
 - A) 90%~~90 percent~~ control of the VOM emissions vented to it; or
 - B) VOM emissions concentration of less than 50 ppmv, on a dry basis.
- 2) Any existing control device subject to subsection (a) ~~of this Section~~ is required to meet the 98%~~98 percent~~ emissions limit ~~set forth~~ in subsection (a)(1) upon ~~the earlier to occur of~~ the date the control device is replaced for any reason, including, ~~but not limited to~~, normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A control device is considered ~~to be~~ replaced when:
 - A) The entire~~All of the~~ device is replaced; or
 - B) When the cost to repair the device or ~~the cost to~~ replace part of the device exceeds 50%~~50 percent~~ of the cost ~~to replace~~of replacing the entire device with a device that complies with the 98% emissions limitation in subsection (a)(1) ~~of this Section~~.

c) For each individual vent stream within a chemical manufacturing process unit with a TRE index value greater than 1.0, the owner or operator ~~must~~shall maintain process vent stream parameters that retain a calculated TRE index value greater than 1.0 ~~throughby means of~~ recovery. Any recovery device ~~must~~shall have as its primary purpose the capture of chemicals for use, reuse, or sale. The TRE index

value ~~must~~shall be calculated at the outlet of the final recovery device.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.433 Performance and Testing Requirements

- a) ~~To demonstrate~~~~For the purpose of demonstrating~~ compliance with the TRE index value in Section 218.432(c)~~-of this Subpart~~, an engineering assessment ~~must~~shall be made to determine process vent stream flow rate, net heating value, and VOM emission rate for the representative operating conditions expected to yield the lowest TRE index value. The source ~~must~~shall also calculate the TRE index values ~~underpursuant to~~ the equations ~~ineontained within~~ Appendix G (b)(1)~~-of this Part~~.
- 1) If the TRE index value calculated using ~~thesueh~~ engineering assessment and the TRE equation in Appendix G (b)(1)~~-of this Part~~ is greater than 4.0, then the owner or operator is exempt from performing the measurements ~~specified~~ in Appendix G (a)~~-of this Part~~.
- 2) If the TRE index value calculated using ~~thesueh~~ engineering assessment and the TRE equation in Appendix G (b)(1)~~-of this Part~~ is less than or equal to 4.0, then the owner or operator ~~must~~shall perform the measurements ~~specified~~ in Appendix G (a)~~-of this Part~~. An owner or operator of a source may, in the alternative, elect to comply with the control requirements ~~specified~~ in Section 218.432~~-of this Subpart~~ rather than performing the measurements in Appendix G (a)~~-of this Part~~.
- 3) An engineering assessment ~~must~~shall include~~, but is not limited to, the following~~:
 - A) Previous test results, ~~ifprovided~~ the tests are representative of current operating practices at the chemical manufacturing process unit;
 - B) Bench-scale or pilot-scale test data of the process under representative operating conditions;
 - C) Maximum flow rate, as stated within a permit limit, applicable to the process vent;
 - D) Design analysis based on accepted chemical engineering principles, measurable process parameters, or physical or

chemical laws or properties. Examples of analytical methods include, ~~but are not limited to, the following:~~

- i) Use of material balances based on process stoichiometry to estimate maximum VOM concentrations;
- ii) Estimation of maximum flow rate based on physical equipment design, such as pump or blower capacities;
- iii) Estimation of VOM concentrations based on saturation conditions; and
- iv) Estimation of maximum expected net heating value based on the stream concentration of each organic compound, or, alternatively, as if all VOM in the stream were the compound with the highest heating value.

E) All data, assumptions, and procedures used in the engineering assessment ~~must~~shall be documented.

- b) ~~To demonstrate~~For the purpose of demonstrating compliance with the control requirements in Section 218.432 ~~of this Subpart~~, the chemical manufacturing process unit ~~must~~shall be run at representative operating conditions and flow rates during any performance test.
- c) The following methods in 40 CFR 60, incorporated by reference at Section 218.112 ~~of this Part~~, ~~must~~shall be used to demonstrate compliance with the reduction efficiency requirement ~~listed~~ in Section 218.432(a)(1) ~~of this Subpart~~.
 - 1) Method 1 or 1A, incorporated by reference at Section 218.112 ~~of this Part~~, as appropriate, ~~to select~~for selection of the sampling sites. The control device inlet sampling site ~~to determine~~for determination of vent stream molar composition or VOM content, ~~excluding~~less methane and ethane, reduction efficiency ~~must~~shall be located after the last recovery device but ~~before~~prior to the inlet of the control device, ~~before~~prior to any dilution of the process vent stream, and ~~before~~prior to release to the atmosphere.
 - 2) Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112 ~~of this Part~~, as appropriate, ~~to determine~~for determination of gas stream volumetric flow rate.

- 3) The emission rate correction factor, integrated sampling, and analysis procedure of Method 3, incorporated by reference at Section 218.112-~~of this Part~~, ~~mustshall~~ be used to determine the oxygen concentration (%O_{2d}) ~~to determinefor the purpose of determining~~ compliance with the 20 ppmv limitation. The sampling site ~~to determinefor determining~~ compliance with the 20 ppmv limitation ~~mustshall~~ be the same site used for the VOM samples, and samples ~~mustshall~~ be taken at the same time that the VOM samples are taken. The VOM concentration corrected to ~~3%3-percent~~ oxygen (C_c) ~~mustshall~~ be computed using the following formula:

$$C_c = C_{VOM} \times \frac{17.9}{20.9 - \%O_{2d}}$$

where:

C_c = Concentration of VOM (~~excludingminus~~ methane and ethane) corrected to ~~3%3-percent~~ O₂, dry basis, ppmv.

C_{VOM} = Concentration of VOM(~~excludingminus~~ methane and ethane), dry basis, ppmv.

%O_{2d} = Concentration of oxygen, dry basis, percent by volume.

- 4) Method 18, incorporated by reference at Section 218.112-~~of this Part~~, to determine the concentration of VOM, ~~excludingless~~ methane and ethane, at the outlet of the control device when determining compliance with the 20 ppmv limitation in Section 218.432(a)(1)-~~of this Subpart~~, or at both the control device inlet and outlet when the reduction efficiency of the control device is to be determined.

A) The minimum sampling time for each run ~~mustshall~~ be 1 hour in which either an integrated sample or four grab samples ~~mustshall~~ be taken. If grab sampling is used, then the samples ~~mustshall~~ be taken at 15-minute intervals.

B) The emission reduction (R) of VOM, ~~excludingless~~ methane and ethane, ~~mustshall~~ be determined using the following formula:

$$R = \frac{(E_i - E_o)}{E_i} \times 100$$

where:

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R = Emission reduction, percent by weight.

|

E_i = Mass rate of VOM (~~excluding~~minus methane and ethane) entering the control device, kg VOM/hr.

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E_o = Mass rate of VOM, ~~excluding~~less methane and ethane discharged to the atmosphere, kg VOM/hr.

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C) The mass rates of VOM (E_i, E_o) ~~must~~shall be computed using the following formula:

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$$E_i = K_2 \left(\sum_{j=1}^n C_{ij} M_{ij} \right) Q_i$$

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$$E_o = K_2 \left(\sum_{j=1}^n C_{oj} M_{oj} \right) Q_o$$

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where:

C_{ij}, C_{oj} = Concentration of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, dry basis, ppmv.

M_{ij}, M_{oj} = Molecular weight of sample component "j" of the gas stream at the inlet and outlet of the control device, respectively, grams/gram-mole.

Q_i, Q_o = Flow rate of gas stream at the inlet and outlet of the control device, respectively, dry space scm/min.

K₂ = 2.494 x 10⁻⁶ (liters/minute) (gram-mole per scm) (kg/g) (min/hr), where standard temperature for (gram-mole/scm) is ~~20 °C~~20°C.

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D) The representative VOM concentration (C_{vom}) is the sum of each of the individual components of VOM (C_j) and ~~must~~shall be computed for each run using the following:

$$C_{vom} = \sum_{j=1}^n C_j$$

where:

- C_{VOM} = Concentration of VOM (~~excluding~~~~minus~~ methane and ethane), dry basis, ppmv.
- C_j = Concentration of sample component "j", dry basis, ppmv.
- n = Number of components in the sample.

- 5) When a boiler or process heater with a design heat input capacity of at least 44 ~~MW~~~~megawatts or greater~~, or a boiler or process heater into which the process vent stream is introduced with the primary fuel, is used to comply with the control requirements, an initial performance test is not required.

- d) When a flare is used to comply with the control requirements of this rule, the flare ~~must~~~~shall~~ comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.434 Monitoring Requirements

- a) The owner or operator of a source subject to the control requirements in Section 218.432 ~~of this Subpart~~ that uses an incinerator to comply with the VOM emission limitation ~~specified~~ in Section 218.432(a)(1) ~~must~~~~shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and ~~with~~~~having~~ an accuracy of $\pm$ ~~1%1 percent~~ of the temperature measured expressed in ~~degrees~~~~degrees~~ Celsius, or $\pm 0.5^\circ\text{C} \pm 0.5^\circ\text{C}$, whichever is greater.
- 1) ~~If~~~~Where~~ an incinerator other than a catalytic incinerator is used, a temperature monitoring device ~~must~~~~shall~~ be installed in the firebox.
 - 2) ~~If~~~~Where~~ a catalytic incinerator is used, temperature monitoring devices ~~must~~~~shall~~ be installed in the gas stream immediately before and after the catalyst bed.
- b) The owner or operator of a source that uses a flare to comply with Section

218.432(a)(2) ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a heat-sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a flame.

- c) The owner or operator of a source that uses a boiler or process heater with a design heat input capacity less than 44 ~~MW~~ megawatts to comply with Section 218.432(a)(1) ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, a temperature monitoring device in the firebox. The monitoring device ~~must shall~~ be equipped with a continuous recorder with an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being measured expressed in degrees Celsius or $\pm 0.5^\circ\text{C}$ ~~$\pm 0.5^\circ\text{C}$~~ , whichever is greater. Any boiler or process heater in which all vent streams are introduced with primary fuel is exempt from this requirement.
- d) The owner or operator of a process vent with a TRE index value of 4.0 or less that uses at least one ~~or more~~ product recovery ~~device must~~ ~~devices shall~~ install either an organic monitoring device equipped with a continuous recorder or the monitoring equipment specified in subsections (d)(1), (d)(2), (d)(3), or (d)(4) ~~of this Section~~, depending on the type of recovery device used. All monitoring equipment ~~must shall~~ be installed, calibrated, and maintained according to the manufacturer's specifications.
- 1) ~~If Where~~ an absorber is the final recovery device in the recovery system, a scrubbing liquid temperature monitoring device and a specific gravity monitoring device, each equipped with a continuous recorder, ~~must shall~~ be used.
 - 2) ~~If Where~~ a condenser is the final recovery device in the recovery system, a condenser exit (product side) temperature monitoring device equipped with a continuous recorder and ~~with having~~ an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being monitored expressed in degrees Celsius or $\pm 0.5^\circ\text{C}$ ~~$\pm 0.5^\circ\text{C}$~~ , whichever is greater.
 - 3) ~~If Where~~ a carbon adsorber is the final recovery device in the recovery system, an integrating regeneration steam flow monitoring device ~~with having~~ an accuracy of $\pm 10\%$ ~~± 10 percent~~, capable of recording the total regeneration steam mass flow for each regeneration cycle; and a carbon bed temperature monitoring device ~~with having~~ an accuracy of $\pm 1\%$ ~~± 1 percent~~ of the temperature being monitored expressed in degrees Celsius of $\pm 0.5^\circ\text{C}$ ~~$\pm 0.5^\circ\text{C}$~~ , capable of recording the carbon bed temperature after each regeneration and within 15 minutes of completing any cooling cycle.

- 4) ~~If/Where~~ a scrubber is used with an incinerator, boiler, or, in the case of halogenated vent streams, a process heater, the following monitoring equipment is required for the scrubber:
- A) A pH monitoring device equipped with a continuous recorder to monitor the pH of the scrubber effluent; and
 - B) Flow meters equipped with a continuous recorder at the scrubber influent for liquid flow and the scrubber inlet for gas stream flow.
- e) The owner or operator of a process vent using a vent system that contains bypass lines capable of diverting a vent stream away from the control device associated with a process vent ~~must~~ shall comply with either subsection (e)(1) or (e)(2) of this Section. Equipment needed for safety purposes, including, ~~but not limited to,~~ pressure relief devices, ~~is/are~~ not subject to this subsection.
- 1) The owner or operator ~~must~~ shall install, calibrate, maintain, and operate a flow indicator that provides a record of vent stream flow at least once every 15 minutes. The flow indicator ~~must~~ shall be installed at the entrance to any bypass line that could divert the vent stream away from the control device to the atmosphere.
 - 2) The owner or operator ~~must~~ shall secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism ~~must~~ shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line.
- f) The owner or operator of a process vent may monitor by an equivalent alternative means or parameters other than those ~~listed~~ in subsections (a) through (d) ~~of this Section~~. Any equivalent alternative ~~must~~ shall be approved by the Agency and USEPA, and ~~contained~~ in the source's operating permit as federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.435 Recordkeeping and Reporting Requirements

- a) Every owner or operator of a reactor or distillation unit with a TRE index value of 4.0 or less ~~must~~ shall keep for at least three years records, ~~for a minimum of 3 years~~, of the following parameters measured during a performance test or TRE determination required under Section 218.433 ~~of this Subpart~~, and required to be

monitored under Section 218.434 ~~of this Subpart~~.

- 1) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(1) ~~by using of this Subpart through the use of~~ either a thermal or catalytic incinerator ~~must~~shall maintain records of the following:
 - A) The average firebox temperature of the incinerator (or the average temperature upstream and downstream of the catalyst bed for a catalytic incinerator), measured at least every 15 minutes and averaged over the same time period of the performance testing; and
 - B) The percent reduction of VOM determined ~~under as specified in~~ Section 218.433(c) ~~of this Subpart~~ achieved by the incinerator, or the concentration of VOM (ppmv, by compound) determined ~~under as specified in~~ Section 218.433(c) ~~of this Subpart~~ at the outlet of the control device, on a dry basis, corrected to ~~3%3 percent~~ oxygen.
- 2) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(1) ~~by using of this Subpart through the use of~~ a boiler or process heater ~~must~~shall maintain the records in subsections (a)(2)(A) and (a)(2)(B) described below. Any boiler or process heater in which all vent streams are introduced with primary fuel are exempt from these requirements.
 - A) A description of the location at which the vent stream is introduced into the boiler or process heater; and
 - B) The average combustion temperature of the boiler or process heater with a design heat input capacity of less than 44 ~~MWmegawatt~~ measured at least every 15 minutes and averaged over the same time period of the performance testing.
- 3) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(a)(2) ~~by using of this Subpart through use of~~ a smokeless flare, or flare design (i.e., steam-assisted, air-assisted, or nonassisted) ~~must, shall~~ maintain records of all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the performance test; continuous records of the flare pilot flame monitoring; and records of all periods of operations during which the pilot flame is absent.

4) Every owner or operator of a source that seeks to demonstrate compliance with Section 218.432(b) ~~must of this Subpart shall~~ maintain records of the following:

- A) ~~If Where~~ an absorber is the final recovery device in the recovery system, the exit specific gravity (or alternative parameter which is a measure of the degree of absorbing liquid saturation, if approved by the Agency and USEPA), and average exit temperature of the absorbing liquid measured at least every 15 minutes and averaged over the same time period as the performance testing (both measured while the vent stream is normally routed and constituted);
- B) ~~If Where~~ a condenser is the final recovery device in the recovery system, the average exit (product side) temperature measured at least every 15 minutes and averaged over the same time period as the performance testing while the vent stream is normally routed and constituted;
- C) ~~If Where~~ a carbon absorber is the final recovery device in the recovery system, the total steam mass or volumetric flow measured at least every 15 minutes and averaged over the same time period as the performance testing (full carbon bed cycle), the temperature of the carbon bed after regeneration (and within 15 minutes of ~~completing completion of~~ any cooling ~~cycle or cycles~~ ~~cycle(s)~~), and duration of the carbon bed steaming cycle (all measured while the vent stream is normally routed and constituted);
- D) As an alternative to subsection (a)(4)(A), (a)(4)(B), or (a)(4)(C) ~~of this Section~~, the concentration level or reading indicated by the organic monitoring device at the outlet of the absorber, condenser, or carbon absorber, measured at least every 15 minutes and averaged over the same time period as the performance testing (measured while the vent stream is normally routed and constituted); or
- E) All measurements and calculations performed to determine the flow rate, VOM concentration, heating value, and TRE index value of the vent stream.

b) Every owner or operator of a reactor or distillation unit with a TRE index value of less than 4.0 ~~is shall be~~ subject to the exceedance reporting requirements of the draft Enhanced Monitoring Guidelines as published at 58 Fed. Reg. 54648

(October 22, 1993).

- c) Every owner or operator of a source seeking to comply with Section 218.432(b) ~~must of this Subpart shall~~ maintain records of the following:
 - 1) Any changes in production capacity, feedstock type, or catalyst type, or of any replacement, removal, or addition of recovery equipment or reactors and distillation units; and
 - 2) Any recalculation of the flow rate, VOM concentration, or TRE index value calculated ~~under~~ according to subsection (c) of Appendix G ~~of this Part.~~
- d) Every owner or operator of a source claiming a design capacity of less than 1 gigagram (1,100 tons) per year ~~under, as contained in~~ Section 218.431(b) ~~must of this Subpart, shall~~ maintain records of the design capacity or any changes in equipment or operations that may affect the design capacity.
- e) Every owner or operator of a source claiming a vent stream flow rate or vent stream concentration exemption level ~~under, as contained in~~ Section 218.431(b)(5) ~~must of this Subpart, shall~~ maintain records to indicate that the stream flow rate is less than 0.0085 scm/min or the vent stream concentration is less than 500 ppmv.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.436 Compliance Date

Every owner or operator of ~~aan~~ source subject to Sections 218.431, 218.432, 218.433, 218.434, or 218.435 ~~must of this Subpart shall~~ comply with its standards, limitations, and mandates by March 15, 1996.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section 218.441 Petroleum Refinery Waste Gas Disposal

- a) Except ~~under as provided in~~ subsection (b) or (c) ~~of this Section, and~~ a person must not ~~shall~~ cause or allow the discharge of organic materials ~~exceeding in excess of~~ 100 ppm equivalent methane (molecular weight 16.0) into the atmosphere from:

- 1) Any catalyst regenerator of a petroleum cracking system; ~~or~~
 - 2) Any petroleum fluid coker; or
 - 3) Any other waste gas stream from any petroleum or petrochemical manufacturing process.
- b) Exception. Existing sources subject to subsection (a)(3) ~~of this Section~~ may, alternatively, at their election, comply with the organic material emission limitations under Section imposed by 35 Ill. Adm. Code 218.301 or 218.302. ~~However,; provided, however, that~~ there ~~must~~shall be no increase in emissions from ~~thesuch~~ sources above the level of emissions ~~in existence~~ on May 3, 1979.
- c) New Sources. Sources subject to subsection (a)(3) ~~of this Section~~, construction of which commenced on or after January 1, 1977, may, at their election, comply with the following emission limitations:
- 1) A maximum of 8 lbs/h~~eight pounds per hour~~ of organic material; or
 - 2) Emission of organic material ~~exceeding in excess of~~ the limitation of subsection (c)(1) ~~of this Section~~ is allowable if ~~thesuch~~ emissions are controlled by air pollution control methods or equipment approved by the Agency that are capable of reducing by at least 85%~~85 percent or more~~ the uncontrolled organic material that would otherwise be emitted to the atmosphere. ~~TheSuch~~ methods or equipment must be approved by the Agency and ~~approved by the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.442 Vacuum Producing Systems

~~An~~No owner or operator of a petroleum refinery ~~must not~~shall cause or allow the operation of any vacuum producing system unless the condensers, hot wells, and accumulators of ~~theany such~~ system are equipped with vapor loss control equipment, ~~but not limited to,~~ piping, valves, flame arrestors, and hot wellcovers, to vent any VOM with a vapor pressure of at least 10.34 kPa (1.5 psia) ~~or greater at 294.3 °K (70 °F)~~294.3° K (70° F) to a heater, fire box, flare, refinery fuel gas system, or other equipment or system of equal emission control as approved by the Agency and ~~approved by the~~ USEPA as a SIP revision. This Section ~~doesshall~~ not apply to vacuum producing systems on lube units.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.443 Wastewater (Oil/Water) Separator

~~An~~No owner or operator of a petroleum refinery ~~must not~~shall operate any wastewater (oil/water) separator at a petroleum refinery unless the separator is equipped with air pollution control equipment capable of reducing by ~~at least 85%~~85 percent or more the uncontrolled organic material emitted to the atmosphere. If no odor nuisance exists, the limitation of this Section ~~does~~shall not apply if the vapor pressure of the organic material is below 10.34 kPa (1.5 psia) at ~~294.3 °K (70 °F)~~294.3° K (70° F) at all times.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.444 Process Unit Turnarounds

- a) ~~An~~No owner or operator of a petroleum refinery ~~must not~~shall cause or allow a refinery process unit turnaround except in compliance with an operating procedure as approved by the Agency.
- b) Unless a procedure was already on file with the Agency by November 1, 1979, as part of an approved operating permit ~~no later than November 1, 1979~~, the owner or operator of a petroleum refinery ~~must~~shall submit to the Agency for approval a detailed procedure ~~to reduce~~for reducing emissions of VOM during refinery process unit turnarounds from organic material with a vapor pressure of at least 10.34 kPa (1.5 psia) ~~or greater~~ at ~~294.3 °K (70 °F)~~294.3° K (70° F). The Agency ~~must~~shall not approve the procedure unless it provides for:
 - 1) Depressurization of the refinery process unit or vessel to a flare, refinery fuel gas system, or other equipment or system of equal emission control; ~~as approved by the Agency and approved by the USEPA as a SIP revision~~, until the internal pressure from the vessel or unit is less than 5.0 psig before allowing the vessel to be vented to the atmosphere, as approved by the Agency and by USEPA as a SIP revision;
 - 2) Recordkeeping of the following items:
 - A) Each date that a refinery unit or vessel is shut down; and
 - B) The total estimated quantity of VOM emitted to the atmosphere and the duration of the emission in hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.445 Leaks: General Requirements

The owner or operator of a petroleum refinery ~~must~~shall:

- a) Develop a monitoring program plan consistent with ~~the provisions of~~ Section 218.446;
- b) Conduct a monitoring program consistent with ~~the provisions of~~ Section 218.447;
- c) Record all leaking components which have a VOM ~~volatile organic material~~ concentration exceeding 10,000 ppm consistent with ~~the provisions of~~ Section 218.448;
- d) Identify each component consistent with the monitoring program plan submitted ~~underpursuant to~~ Section 218.446;
- e) Repair and retest the leaking components as soon as possible within 22 days after the leak is found, but ~~by no later than~~ June 1 for ~~the purposes of~~ Section 218.447(a)(1), unless the leaking components cannot be repaired until the unit is shut down for turnaround; and
- f) Report to the Agency consistent with ~~the provisions of~~ Section 218.449.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.446 Monitoring Program Plan for Leaks

The owner or operator of a petroleum refinery ~~must~~shall prepare a monitoring program plan which contains, at a minimum:

- a) An identification of all refinery components and the period in which each will be monitored ~~underpursuant to~~ Section 218.447 ~~of this Part~~;
- b) The format for the monitoring log required by Section 218.448 ~~of this Part~~;
- c) A description of the monitoring equipment to be used ~~underpursuant to~~ Section 218.447 ~~of this Part~~; and
- d) A description of the methods to be used to identify all pipeline valves, pressure relief valves in gaseous service, and all leaking components ~~so such that~~ they are obvious to ~~both~~ refinery personnel performing monitoring and Agency personnel performing inspections.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.447 Monitoring Program for Leaks

- a) The owner or operator of a petroleum refinery subject to Section 218.445 ~~must of this Part shall, to detect for the purpose of detecting~~ leaks, conduct a component monitoring program consistent with the following provisions:
- 1) Test all pump seals, pipeline valves in liquid service, and process drains once between March 1 and June 1 of each year; by methods ~~referenced~~ in Section 218.105(g) ~~of this Part, all pump seals, pipeline valves in liquid service and process drains;~~
 - 2) Test all pressure relief valves in gaseous service, pipeline valves in gaseous service, and compressor seals once each quarter of each calendar year; by methods ~~referenced~~ in Section 218.105(g) ~~of this Part, all pressure relief valves in gaseous service, pipeline valves in gaseous service and compressor seals;~~
 - 3) Inaccessible valves may be tested once each calendar year instead of once each quarter of each calendar year;
 - 4) Visually observe ~~Observe visually~~ all pump seals weekly;
 - 5) Immediately test ~~Test immediately~~ any pump seal from which liquids are observed dripping;
 - 6) Test any relief valve within 24 hours after it has vented to the atmosphere; and
 - 7) Immediately test ~~Test immediately~~ after repairing ~~repair~~ any component that was found leaking.
- b) Storage tank valves and pressure relief devices connected to an operating flare header or vapor recovery device are exempt from the monitoring requirements in subsection (a) ~~of this Section.~~
- c) The Agency or ~~the~~ USEPA may require more frequent monitoring than would otherwise be required by subsection (a) for components which are demonstrated to have a history of leaking.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.448 Recordkeeping for Leaks

- a) The owner or operator of a petroleum refinery must ~~shall~~ maintain a ~~leaking~~

~~components~~ monitoring log of leaking components, which ~~must~~shall contain, at a minimum, ~~the following information~~:

- 1) The name of the process unit where the component is located;
 - 2) The type of component (e.g., valve, seal);
 - 3) The identification number of the component;
 - 4) The date on which a leaking component is discovered;
 - 5) The date on which a leaking component is repaired;
 - 6) The date and instrument reading of the recheck procedure after a leaking component is repaired;
 - 7) A record of the calibration of the monitoring instrument;
 - 8) The identification number of leaking components which cannot be repaired until turnaround; and
 - 9) The total number of components inspected and the total number of components found leaking during that monitoring period.
- b) Copies of the monitoring log ~~must~~shall be retained by the owner or operator for at least a minimum of two years after the date on which the record was made or the report prepared.
- c) Copies of the monitoring log ~~must~~shall be made available to the Agency, upon verbal or written request, at any reasonable time.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.449 Reporting for Leaks

The owner or operator of a petroleum refinery ~~must~~shall:

- a) Submit a report to the Agency before July 1 and September 1 ~~prior to the 1st day of both July and September~~ listing all leaking components identified underpursuant to Section 218.447 ~~of this Part~~ but not repaired within 22 days, all leaking components awaiting unit turnaround, the total number of components inspected, and the total number of components found leaking;

- b) Submit a signed statement with the report attesting that all monitoring and repairs were performed as required under Sections 218.445 through 218.448 ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.450 Alternative Program for Leaks

The Agency may approve an alternative program of monitoring, recordkeeping, or reporting to that prescribed in Sections 218.446 through 218.449 ~~of this Part~~ upon a demonstration by the owner or operator of a petroleum refinery that the alternative program will provide refinery, Agency, and USEPA personnel with an equivalent ability to identify and repair leaking components. Any alternative program ~~is~~ can be allowed only if approved by ~~the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.451 Sealing Device Requirements

Except for safety pressure relief valves, ~~an~~ owner or operator of a petroleum refinery must not ~~shall~~ install or operate a valve at the end of a pipe or line containing VOMs unless the pipe or line is sealed with a second valve, blind flange, plug, cap, or other sealing device. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.452 Compliance Schedule for Leaks (Repealed)

~~The owner or operator of a petroleum refinery shall adhere to the increments of progress contained in the following schedule:~~

- a) ~~Have submitted to the Agency a monitoring program consistent with Section 218.446 of this Part prior to September 1, 1990.~~
- b) ~~Have submitted to the Agency the first monitoring report pursuant to Section 218.449 of this Part prior to October 1, 1990.~~

(Source: Repealed at 50 Ill. Reg. _____, effective _____)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section 218.461 Manufacture of Pneumatic Rubber Tires

The owner or operator of an undertread cementing, tread end ~~tread end~~ cementing, or bead

dipping operation at a pneumatic rubber tire manufacturing source must install and operate:

- a) A capture system; with minimum capture efficiency of 65%~~65 percent~~ by weight of VOM for ~~tread end~~ cementing or bead dipping operations and a capture system with a minimum capture efficiency of 55.5%~~55.5 percent~~ by weight of VOM for undertread cementing; and
- b) A control device that meets the requirements of one of the following:
 - 1) A carbon adsorption system designed and operated to remove~~in a manner such that there is~~ at least 90%~~a 90 percent removal~~ of VOM by weight from the gases ducted to the control device;
 - 2) An afterburning system that oxidizes at least 90%~~90 percent~~ of the captured nonmethane VOMs (VOM measured as total combustible carbon) to carbon dioxide and water; and
 - 3) An alternative VOM emission reduction system demonstrated to have at least a 90%~~90 percent~~ overall reduction efficiency and approved by the Agency and ~~approved by the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.462 Green Tire Spraying Operations

The owner or operator of a green tire spraying operation at a pneumatic rubber tire manufacturing source must install and operate:

- a) Install and operate:
 - 1) A capture system with a minimum capture efficiency of 90%~~90 percent~~ by weight of VOM; and
 - 2) A control device that meets the requirements of one of the following:
 - A) A carbon adsorption system designed and operated to remove~~in a manner such that there is~~ at least 90%~~90 percent removal~~ of VOM by weight from the gases ducted to the control device;
 - B) An afterburning system that oxidizes at least 90%~~90 percent~~ of the captured nonmethane VOM (measured as total combustible carbon) to carbon dioxide and water; or

C) An alternative VOM emission reduction system demonstrated to have at least a ~~90%~~~~90 percent~~ overall reduction efficiency and approved by the Agency and ~~approved~~ by ~~the~~ USEPA as a SIP revision.

b) Substitute for the normal solvent-based mold release compound water-based sprays containing:

- 1) ~~Only up to 5%~~~~No more than five percent~~ by volume of VOM as applied for the inside of tires;
- 2) ~~Only up to 10%~~~~No more than ten percent~~ by volume of VOM as applied for the outside of tires.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.463 Alternative Emission Reduction Systems

~~Instead~~~~In lieu~~ of complying with Section 218.461 or 218.462 ~~of this Part~~, the owner or operator of an emission source may ~~use~~~~utilize~~ an alternative ~~VOM~~~~volatile organic emission~~ reduction system, including an alternative production process, which is demonstrated to be equivalent to Section 218.461 or 218.462 ~~based on VOM~~~~of this Part on the basis of~~ emissions ~~of volatile organic material~~. A ~~tread end~~~~treadend~~ cementing operation ~~must~~~~shall~~ be considered equivalent to Section 218.461 or 218.462 ~~of this Part~~ for ~~the purposes of~~ this Section if the ~~VOM~~~~total volatile organic~~ emission from ~~thesueh~~ operation is 10 grams or less per tire.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.464 Emission Testing

- a) Upon a reasonable request by the Agency, the owner or operator of a VOM emission source required to comply with a limit of Sections 218.461 through 218.464 ~~must~~~~of this Part shall~~ conduct emissions testing, at ~~that~~~~sueh~~ person's own expense, to demonstrate compliance.
- b) A person planning to conduct a VOM emission test to demonstrate compliance ~~must~~~~shall~~ notify the Agency of that intent ~~at least~~~~not less than~~ 30 days before the planned initiation of the tests so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART T: PHARMACEUTICAL MANUFACTURING

Section 218.480 Applicability

- a) ~~This~~~~The rules of this~~ Subpart, except for Sections 218.483 through 218.485 ~~of this Part~~, ~~applies~~~~apply~~ to all emission units of VOM, including ~~but not limited to~~ reactors, distillation units, dryers, storage tanks for VOL, equipment for the transfer of VOL, filters, crystallizers, washers, laboratory hoods, pharmaceutical coating operations, mixing operations, and centrifuges used in manufacturing, including packaging, of pharmaceuticals, and emitting more than 6.8 kg/day (15 lbs/day) and more than 2,268 kg/year (2.5 tons/year) of VOM. If ~~the such an~~ emission unit emits less than 2,268 kg/year (2.5 tons/year) of VOM, ~~the requirements of~~ this Subpart still ~~applies~~~~apply~~ ~~to the emission unit~~ if VOM emissions from the emission unit exceed 45.4 kg/day (100 lbs/day).
- b) ~~Despite~~~~Notwithstanding~~ subsection (a) ~~of this Section~~, the air suspension coater/dryer, fluid bed dryers, tunnel dryers, and Accelacotas located in Libertyville Township, Lake County, ~~are~~~~Illinois shall be~~ exempt from ~~the rules of~~ this Subpart, except for Sections 218.483 through 218.485, if emissions of VOM not vented to air pollution control equipment do not exceed the following levels:
- 1) For the air suspension coater/dryer: 2,268 kg/year (2.5 tons/year);
 - 2) Except ~~under as set forth in~~ subsection ~~(b)(4) 218.480(b)(4) of this Section~~, for each fluid bed dryer: 4,535 kg/year (5.0 tons/year);
 - 3) Except ~~under as set forth in~~ subsection ~~(b)(4) 218.480(b)(4) of this Section~~, for each tunnel dryer: 6,803 kg/year (7.5 tons/year);
 - 4) For fluid bed dryers #1, #2, and #3 and for tunnel dryers #1, #2, #3, and #4, the combined total annual emissions from the dryers listed in this subsection ~~(b)(4) must 218.480(b)(4) shall~~ not exceed 18,688 kg/year (20.6 tons/year); ~~and~~;
- (~~BOARD NOTE: Tunnel~~~~tunnel~~ dryers are otherwise referred to as warm air dryers.); ~~and~~
- 5) For each Accelacota: 6,803 kg/year (7.5 tons/year).
- c) Sections 218.483 through 218.485 ~~of this Part~~ apply to a source ~~with~~~~having~~ one or more emission units that:
- 1) Are used to manufacture pharmaceuticals; ~~and~~
 - 2) Emit more than 6.8 kg/day (15 lbs/day) of VOM and more than 2,268

kg/year (2.5 tons/year) of VOM. ~~If, or, if~~ less than 2,268 kg/year (2.5 tons/year), these Sections still apply if emissions from one or more sources exceed 45.4 kg/day (100 lbs/day).

- d) ~~An~~ owner or operator ~~must not~~ violate any condition in a permit when the condition results in ~~excluding~~ exclusion of an emission unit from this Subpart.
- e) Any pharmaceutical manufacturing source that becomes subject to ~~the provisions of~~ this Subpart at any time ~~remain~~ shall remain subject to ~~the provisions of~~ this Subpart at all times.
- f) Emissions subject to this Subpart ~~must~~ shall be controlled at all times consistent with the requirements ~~of set forth in~~ this Subpart.
- g) Any control device required ~~under~~ pursuant to this Subpart ~~must~~ shall be operated at all times when the source it is controlling is operated.
- h) Determinations of daily and annual emissions for ~~purposes of~~ this Section ~~must~~ shall be made using both data on the hourly emission rate (or the emissions per unit of throughput) and appropriate daily and annual data from records of emission unit operation (or material throughput or material consumption data). In the absence of representative test data ~~under~~ pursuant to Section 218.487 ~~of this Part~~ for the hourly emission rate (or the emissions per unit of throughput), ~~these~~ such items ~~must~~ shall be calculated using engineering calculations, including the methods ~~described~~ in Appendix B of "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products" (EPA-450/2-78-029), incorporated by reference in Section 218.112 ~~of this Part~~. (This subsection ~~does~~ shall not affect the Agency's or ~~the~~ USEPA's authority to require emission tests to be performed ~~under~~ pursuant to Section 218.487 ~~of this Part~~.)
- i) Equipment and operations emitting VOM at a source subject to subsection (a) or (c) ~~of this Section~~ and used to produce pharmaceutical products or a pharmaceutical-like product, such as a hormone, enzyme, or antibiotic, ~~must~~ shall be deemed to be engaged in ~~manufacturing the manufacture of~~ pharmaceuticals for ~~the purposes of~~ this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges, and Vacuum Dryers

- a) The owner or operator ~~must~~ shall equip all reactors, distillation units, crystallizers, centrifuges, and vacuum dryers that are used to manufacture pharmaceuticals with

surface condensers or other air pollution control equipment listed in subsection (b) ~~of this Section~~. If a surface condenser is used, it ~~must~~ shall be operated ~~so~~ such that the condenser outlet gas temperature does not exceed:

- 1) ~~248.2 °K (-13 °F)~~ 248.2 °K (-13 °F) when condensing VOM of vapor pressure greater than 40.0 kPa (5.8 psi) at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F), ~~or~~
- 2) ~~258.2 °K (5 °F)~~ 258.2 °K (5 °F) when condensing VOM of vapor pressure greater than 20.0 kPa (2.9 psi) at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F), ~~or~~
- 3) ~~273.2 °K (32 °F)~~ 273.2 °K (32 °F) when condensing VOM of vapor pressure greater than 10.0 kPa (1.5 psi) at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F), ~~or~~
- 4) ~~283.2 °K (50 °F)~~ 283.2 °K (50 °F) when condensing VOM of vapor pressure greater than 7.0 kPa (1.0 psi) at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F), ~~or~~
- 5) ~~298.2 °K (77 °F)~~ 298.2 °K (77 °F) when condensing VOM of vapor pressure greater than 3.45 kPa (0.5 psi) at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F).

- b) If a scrubber, carbon adsorber, thermal afterburner, catalytic afterburner, or other air pollution control equipment other than a surface condenser is used, ~~the~~ such equipment ~~must reduce VOM emissions by at least 90%~~ shall provide a reduction in the emissions of VOM of 90 percent or more.
- c) The owner or operator ~~must~~ shall enclose all centrifuges used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at ~~294.3 °K (70 °F)~~; 294.3 °K (70 °F), except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.482 Control of Air Dryers, Production Equipment Exhaust Systems, and Filters

- a) The owner or operator of an air dryer or production equipment exhaust system used to manufacture pharmaceuticals ~~must~~ shall control the emissions of VOM from ~~the~~ such emission unit by air pollution control equipment which reduces by ~~at least 90%~~ 90 percent or more the VOM that would otherwise be emitted into the atmosphere.

- b) The owner or operator ~~must~~ shall enclose all rotary vacuum filters and other filters used to manufacture pharmaceuticals and that have an exposed VOL surface, where the VOM in the VOL has a vapor pressure of 3.45 kPa (0.5 psi) or more at ~~294.3 °K (70 °F)~~ ~~294.3° K (70° F)~~, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.483 Material Storage and Transfer

The owner or operator of a pharmaceutical manufacturing source ~~must~~ shall:

- a) Provide a vapor balance system that is at least ~~90%~~ ~~90 percent~~ effective in reducing VOM emissions from truck or railcar deliveries to storage tanks with capacities ~~of at least equal to or greater than~~ 7.57 m³ (2,000 gal) that store VOL with vapor pressures greater than 28.0 kPa (4.1 psi) at ~~294.3 °K (70 °F)~~ ~~294.3° K (70° F)~~; and
- b) Install, operate, and maintain pressure/vacuum conservation vents set at 0.2 kPa (0.03 psi) or greater on all storage tanks that store VOL with vapor pressures greater than 10 kPa (1.5 psi) at ~~294.3 °K (70 °F)~~ ~~294.3° K (70° F)~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.484 In-Process Tanks

The owner or operator ~~must~~ shall install covers on all in-process tanks used to manufacture pharmaceuticals and containing a VOL at any time. These covers must remain closed, except as production, sampling, maintenance, or inspection procedures require operator access.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.485 Leaks

The owner or operator of a pharmaceutical manufacturing source ~~must~~ shall repair any component from which a leak of VOL can be observed. The repair ~~must~~ shall be completed as soon as practicable but ~~within no later than~~ 15 days after the leak is found. If the leaking component cannot be repaired until the process unit is shut down, the leaking component must then be repaired before the unit is restarted.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.486 Other Emission Units

The owner or operator of a washer, laboratory hood, tablet coating operation, mixing operation, or any other process emission unit not subject to Sections 218.481 through 218.485 ~~of this Part,~~ and used to manufacture pharmaceuticals ~~must~~shall control VOMthe emissions ~~of VOM~~ from ~~these~~such emission units by:

- a) Air pollution control equipment which reduces by at least 81%~~81 percent~~ or more the VOM that would otherwise be emitted to the atmosphere; or
- b) A surface condenser which captures all the VOM which would otherwise be emitted to the atmosphere and ~~which~~ meets the requirements of Section 218.481(a) ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.487 Testing

- a) Upon request by the Agency or ~~the~~ USEPA, the owner or operator of any VOM source subject to this Subpart or exempt from this Subpart ~~under by virtue of the provisions of~~ Section 218.480 ~~must of this Part shall,~~ at its~~its~~ own expense, demonstrate compliance to the Agency and ~~the~~ USEPA by the methods or procedures ~~listed~~ in Section 218.105(f)(1) ~~of this Part.~~
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must~~shall notify the Agency and ~~the~~ USEPA of that intent at least~~not less than~~ 30 calendar days before the planned initiation of the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.488 Monitoring for Air Pollution Control Equipment

- a) At a minimum, continuous monitors for the following parameters ~~must~~shall be installed on air pollution control equipment used to control sources subject to this Subpart:
 - 1) Destruction device combustion temperature.
 - 2) Temperature rise across a catalytic afterburner bed.
 - 3) VOM concentration on a carbon adsorption unit to determine breakthrough.

- 4) Outlet gas temperature of a refrigerated condenser.
 - 5) Temperature of a non-refrigerated condenser coolant supply system.
- b) Each monitor ~~must~~shall be equipped with a recording device.
 - c) Each monitor ~~must~~shall be calibrated quarterly.
 - d) Each monitor ~~must~~shall operate at all times while the associated control equipment is operating.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.489 Recordkeeping for Air Pollution Control Equipment

- a) The owner or operator of a pharmaceutical manufacturing source ~~must~~shall maintain the following records:
 - 1) Parameters ~~listed~~ in Section 218.488(a) ~~must of this Part shall~~ be recorded.
 - 2) For emission units subject to Section 218.481 ~~of this Part~~, the vapor pressure of VOM being controlled ~~must~~shall be recorded for every process.
- b) For any leak subject to Section 218.485 ~~of this Part~~ which cannot be readily repaired within one hour after detection, the following records ~~must~~shall be kept:
 - 1) The name of the leaking equipment;₅
 - 2) The date and time the leak is detected;₅
 - 3) The action taken to repair the leak;₅ and
 - 4) The date and time the leak is repaired.
- c) The following records ~~must~~shall be kept for emission units subject to Section 218.484 ~~of this Part~~ which contain VOL:
 - 1) For maintenance and inspection:
 - A) The date and time each cover is opened;₅
 - B) The length of time the cover remains open;₅ and

- C) The reason why the cover is opened.
- 2) For production and sampling, detailed written procedures or manufacturing directions specifying the circumstances under which covers may be opened and the procedures for opening covers.
- d) For each emission unit used ~~to manufacture in the manufacture of~~ pharmaceuticals for which the owner or operator of a pharmaceutical manufacturing source claims emission standards ~~do not apply are not applicable~~, because the emissions are below the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, the owner or operator must~~shall~~:
- 1) Maintain a demonstration, including detailed engineering calculations of the maximum daily and annual emissions for each ~~such~~ emission unit, showing that the emissions are below the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate, for the current and prior calendar years;
 - 2) Maintain appropriate operating records for each ~~such~~ emission source to identify whether the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate, are ever exceeded; and
 - 3) Provide written notification to the Agency and ~~the~~ USEPA within 30 days ~~after determining of a determination~~ that ~~such~~ an emission unit has exceeded the applicability cutoffs in Section 218.480(a) or 218.480(b) ~~of this Part~~, as appropriate.
- e) Records required under subsection (a) ~~must of this Section shall~~ be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made.
- f) Copies of the records must~~shall~~ be made available to the Agency or ~~the~~ USEPA upon verbal or written request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

Section 218.500 Applicability for Batch Operations

- a) The control requirements ~~set forth~~ in Section 218.501 ~~of this Subpart shall~~ apply to:

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- 1) Process vents associated with batch operations at sources identified by any of the following four-digit standard industrial classification ("SIC") codes, as defined in the 1987 edition of the Federal Standard Industrial Classification Manual: SIC 2821, 2833, 2834, 2861, 2865, 2869, and 2879, incorporated by reference in Section 218.112; and
 - 2) All batch operations at Stepan Company's Millsdale manufacturing facility, Elwood, ~~Illinois~~.
- b) ~~The requirements of~~ Sections 218.500 through 218.506 ~~doshall~~ not apply to:
- 1) Any emission unit included ~~within the category specified in 35 Ill. Adm. Code 218,~~ Subpart B or T;
 - 2) Any emission unit included ~~within the category specified in Sections 218.520 through 218.527 of this Subpart;~~ and
 - 3) Any emission unit included within an Early Reduction Program under, as specified in 40 CFR Part 63, and published in 57 Fed. Reg. 61970 (December 29, 1992), evidenced by a timely enforceable commitment approved by USEPA.
- c) The following single unit operations and batch process trains are subject to this Subpart but are considered to be de minimis and ~~are, therefore,~~ exempt from the control requirements of Section 218.501 ~~of this Subpart~~. However, the recordkeeping and reporting requirements in Section 218.505 ~~of this Subpart shall~~ apply to ~~thesesuch~~ de minimis single unit operations and batch process trains:
- 1) Within a batch operation, any single unit operation with uncontrolled total annual mass emissions of ~~less than or equal to~~ 500 lb/yr or less of VOM. TheseSuch single unit operations are also excluded from the calculation of the total annual mass emissions for a batch process train. If the uncontrolled total annual mass emissions from ~~ansuch~~ exempt single unit operation exceed 500 lb/yr of VOM in any subsequent year, the source ~~mustshall~~ calculate applicability in complianceaccordance with subsection (d) ~~of this Section~~ for both the individual single unit operation and the batch process train containing the single unit operation; and
 - 2) Any batch process train containing process vents that have, ~~in the~~ aggregate, uncontrolled total annual mass emissions, as determined in complianceaccordance with Section 218.502(a) ~~of this Subpart~~, of less than 30,000 lb/yr of VOM for all products manufactured in ~~thesuch~~ batch

process train.

- d) The applicability equations in subsection (e) ~~of this Section~~, which require ~~calculating the calculation of~~ uncontrolled total annual mass emissions and flow rate value, ~~must~~ shall be used to determine whether a single unit operation or a batch process train is subject to the control requirements ~~set forth~~ in Section 218.501 ~~of this Subpart~~. The applicability equation ~~must~~ shall be applied to the following:
- 1) Any single unit operation with uncontrolled total annual mass emissions that exceed 500 lb/yr and with a VOM concentration greater than 500 ppmv. In this individual determination, no applicability analysis ~~is~~ shall be performed for any single unit operation with a VOM concentration of ~~less than or equal to~~ 500 ppmv or less; and
 - 2) Any batch process train containing process vents which, ~~in the aggregate~~, have aggregate uncontrolled total annual mass emissions of 30,000 lb/yr or more of VOM from all products manufactured in the batch process train. Any single unit operation with uncontrolled total annual mass emissions exceeding 500 lb/yr, regardless of VOM concentration, ~~must~~ shall be included in the aggregate applicability analysis.
- e) Applicability equations
- 1) The applicability equations in this subsection are specific to volatility.
 - 2) For ~~purposes of~~ this subsection, the following abbreviations apply:
 - A) FR = Vent stream flow rate, scfm;
 - B) UTAME = Uncontrolled total annual mass emissions of VOM, expressed as lb/year;
 - C) WAV = Weighted average volatility;
 - D) MVOM_i = Mass of VOM component i;
 - E) MWVOM_i = Molecular weight of VOM component i; and
 - F) VP_i = Vapor pressure of VOM component i.
 - 3) Weighted average volatility ~~must~~ shall be calculated as follows:

$$WAV = \frac{\sum_{i=1}^n [(VP_i) \times \frac{(MVOM_i)}{(MWVOM_i)}]}{\sum_{i=1}^n [\frac{(MVOM_i)}{(MWVOM_i)}]}$$

- 4) ~~To determine~~For purposes of determining applicability, flow rate values ~~mustshall~~ be calculated as follows:
- A) Low WAV has a vapor pressure less than or equal to 75 mmHg at ~~20 °C (68 °F)~~~~20°C (68°F)~~, and ~~mustshall~~ use the following equation:
- $$FR = [0.07(UTAME)] - 1,821$$
- B) Moderate WAV has a vapor pressure greater than 75 mmHg but less than or equal to 150 mmHg at ~~20 °C (68 °F)~~~~20°C (68°F)~~, and ~~mustshall~~ use the following equation:
- $$FR = [0.031(UTAME)] - 494$$
- C) High WAV has a vapor pressure greater than 150 mmHg at ~~20 °C (68 °F)~~~~20°C (68°F)~~, and ~~mustshall~~ use the following equation:
- $$FR = [0.013(UTAME)] - 301$$
- 5) To determine the vapor pressure of VOM, the applicable methods and procedures in Section 218.111 ~~of this Part shall~~ apply.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.501 Control Requirements for Batch Operations

- a) Every owner or operator of a single unit operation with an average flow rate, as determined in ~~compliance~~~~accordance~~ with Section 218.502(b) ~~of this Subpart~~, below the flow rate value calculated by the applicability equations ~~contained~~ in Section 218.500(e) ~~of this Subpart~~, ~~mustshall~~ reduce uncontrolled VOM emissions from ~~thesueh~~ single unit operation by an overall efficiency, on average, of at least ~~90%90-percent~~, or 20 ppmv, per batch cycle.
- b) Every owner or operator of a batch process train with an average flow rate, as determined in ~~compliance~~~~accordance~~ with Section 218.502(b)(2) ~~of this Subpart~~, below the flow rate value calculated by the applicability equations ~~contained~~ in Section 218.500(e) ~~of this Subpart~~, ~~mustshall~~ reduce uncontrolled VOM emissions from ~~thesueh~~ batch process train by an overall efficiency, on average, of at least ~~90%90-percent~~, or 20 ppmv, per batch cycle. ~~To demonstrate~~For purposes of demonstrating compliance with the emission limitations ~~set forth~~ in this Section, any control device meeting the criteria in subsection (c) ~~mustof this Section shall~~ be deemed to achieve a control efficiency of ~~90%90-percent~~, or 20

ppmv, per batch cycle, as applicable.

- c) ~~Despite~~Notwithstanding subsections (a) or (b) ~~of this Section~~, any source that has installed on or before March 15, 1995, any control device which is demonstrated to the Agency's satisfaction to be unable to meet the applicable control requirements of this Section, scrubber, or shell and tube condenser using a non-refrigerated cooling media, and ~~such device~~ achieves at least ~~81%~~81 percent control efficiency of VOM emissions, ~~must~~is required to meet the ~~90%~~90 percent emission limitation or 20 ppmv VOM concentration ~~set forth~~ in subsections (a) or (b) ~~of this Section~~, as applicable, upon ~~the earlier to occur of~~ the date the device is replaced for any reason, including, ~~but not limited to~~, normal maintenance, malfunction, accident, and obsolescence, or December 31, 1999, whichever is earlier. A scrubber, shell and tube condenser using a non-refrigerated cooling media, or other control device meeting the criteria of this subsection, is considered replaced when:
- 1) ~~The entire~~All of the device is replaced; or
 - 2) ~~Either~~When either the cost to repair the device or the cost to replace part of the device exceeds ~~50%~~50 percent of the cost ~~to replace~~of replacing the entire device with a control device that complies with the ~~90%~~90 percent emission limitation or 20 ppmv VOM concentration level in subsection (a) ~~of this Section~~, as applicable.
- d) If a boiler or process heater is used to comply with this Section, the vent stream ~~must~~shall be introduced into the flame zone of the boiler or process heater.
- e) If a flare is used to comply with this Section, it ~~must~~shall comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~. The flare operation requirements of 40 CFR 60.18 do not apply if a process, not subject to this Subpart, vents an emergency relief discharge into a common flare header and causes the flare servicing the process subject to this Subpart to not comply with one or more of the provisions of 40 CFR 60.18.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.502 ~~Determining~~Determination of Uncontrolled Total Annual Mass Emissions and Average Flow Rate Values for Batch Operations

- a) Uncontrolled total annual mass emissions ~~must~~shall be determined by the following methods:
- 1) Direct process vent emissions measurements taken ~~before~~prior to any

release to the atmosphere, following any recovery device, and ~~before prior~~
~~to~~ any control device, ~~if the provided such~~ measurements conform with the
 requirements of measuring the mass flow rate of VOM incoming to the
 control device ~~under as set forth~~ in Section 218.503(f)(2), (f)(3)(A), and
 (f)(3)(B) ~~of this Subpart~~; or

- 2) Engineering estimates of the aggregate uncontrolled VOM emissions from
 a process vent or process vents, ~~in the aggregate~~, within a batch process
 train, using either the potential or permitted number of batch cycles per
 year or total production ~~under as represented in~~ the source's operating
 permit as follows:

A) Engineering estimates of the uncontrolled VOM emissions
~~must shall~~ be based upon accepted chemical engineering principles,
 measurable process parameters, or physical or chemical laws and
 their properties. Examples of methods include, ~~but are not limited~~
~~to, the following~~:

- i) Use of material balances based on process stoichiometry to
 estimate maximum VOM concentrations;
- ii) Estimation of maximum flow rate based on physical
 equipment design, such as pump or blower capacities; and
- iii) Estimation of VOM concentrations based on saturation
 conditions.

B) All data, assumptions, and procedures used in any engineering
 estimate ~~must shall~~ be documented.

- b) Average flow rate ~~must shall~~ be determined by any of the following methods:

1) Direct process vent flow rate measurements taken ~~before prior to~~ any
 release to the atmosphere, following any recovery device, and ~~before prior~~
~~to~~ any control device, ~~if the provided such~~ measurements conform with the
 requirements of measuring incoming volumetric flow rate ~~set forth~~ in
 Section 218.503(e)(2) ~~of this Subpart~~;

2) Average flow rate for a single unit operation ~~with having~~ multiple emission
 events or batch process trains ~~must shall~~ be the weighted average flow rate,
 calculated as follows:

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$$WAF = \frac{\sum_{i=1}^n [AFR_i \times ADE_i]}{\sum_{i=1}^n (ADE_i)}$$

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where:

- WAF = Actual weighted average flow rate for a single unit operation or batch process train;
 AFR_i = Average flow rate per emission event;
 ADE_i = Annual duration of emission event; and
 n = Number of emission events.

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For ~~purposes of~~ this formula, ~~the term~~ "emission event" ~~means~~ shall be defined as a discrete period of venting that is associated with a single unit operation. For example, a displacement of vapor resulting from the charging of a single unit operation with VOM will result in a discrete emission event that will last through the duration of the charge and will have an average flow rate equal to the rate of the charge. The expulsion of expanded vapor space when the single unit operation is heated is also an emission event. Both ~~of these~~ examples of emission events and others may occur in the same single unit operation during ~~the course of~~ the batch cycle. If the flow rate measurement for any emission event is zero, according to Section 218.503(f)(2) ~~of this Subpart~~, then ~~the~~ such event is not an emission event for ~~purposes of~~ this Section.

- 3) Engineering estimates calculated in ~~compliance~~ accordance with ~~the requirements in~~ subsection (a)(2) ~~of this Section~~.

- c) To determine ~~For purposes of determining~~ the average flow rate for steam vacuuming systems, the steam flow ~~must~~ shall be included in the average flow rate calculation.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.503 Performance and Testing Requirements for Batch Operations

- a) Upon the Agency's request, the owner or operator of a batch operation ~~must~~ shall conduct testing to demonstrate compliance with Section 218.501 ~~of this Subpart~~. The owner or operator ~~must~~ shall, at its own expense, conduct ~~the~~ such tests in ~~compliance~~ accordance with the applicable test methods and procedures ~~specified in Section 218.503(d), (e), and (f) of this Subpart~~.

- b) ~~Despite~~~~Notwithstanding~~ subsection (a) ~~of this Section~~, flares and process boilers used to comply with control requirements of Section 218.501 ~~are of this Subpart~~ shall be exempt from performance testing requirements.
- c) When a flare is used to comply with the control requirements of Section 218.501 ~~of this Subpart~~, the flare must~~shall~~ comply with ~~the requirements of~~ 40 CFR 60.18, incorporated by reference at Section 218.112 ~~of this Part~~.
- d) The owner or operator of a batch operation that is exempt from the control requirements of Section 218.501 must~~of this Subpart shall~~ demonstrate, upon the Agency's request, the absence of oversized gas moving equipment in any manifold. Gas moving equipment must~~shall~~ be considered oversized if it exceeds the maximum requirements of the exhaust flow rate by more than 30%~~30 percent~~.
- e) ~~To determine~~~~For the purpose of demonstrating~~ compliance with the control requirements in Section 218.501 ~~of this Subpart~~, the batch operation must~~shall~~ be run at representative operating conditions and flow rates during any performance test.
- f) The following methods in 40 CFR ~~60. Appendix 60, Appendix~~ A, incorporated by reference at Section 218.112 ~~of this Part~~, must~~shall~~ be used to demonstrate compliance with the reduction efficiency requirement ~~set forth~~ in Section 218.501 ~~of this Subpart~~:
- 1) Method 1 or 1A, as appropriate, ~~to select~~~~for selection of the~~ sampling sites if the flow measuring device is not a rotameter. The control device inlet sampling site ~~to determine~~~~for determination of~~ vent stream VOM composition reduction efficiency must~~shall~~ be ~~before~~~~prior to~~ the control device and after the control device;
 - 2) Method 2, 2A, 2C, or 2D, as appropriate, ~~to determine~~~~for determination of~~ gas stream volumetric flow rate flow measurements, which must~~shall~~ be taken continuously. No traverse is necessary when the flow measuring device is an ultrasonic probe;
 - 3) Method 25A or Method 18, if applicable, to determine the concentration of VOM in the control device inlet and outlet;
 - A) The sampling time for each run must~~shall~~ be as follows:
 - i) For batch cycles less than eight hours long in length, if using Method 25A, readings must~~shall~~ be taken continuously over the entire length of the batch cycle with a

- maximum of 15-minute intervals between measurements ~~if using Method 25A~~. If using Method 18, readings mustshall be taken continuously with a maximum of 15-minute intervals between measurements throughout the batch cycle unless it becomes necessary to change the impinger train, in which case a 30-minute interval mustshall not be exceeded.
- ii) For batch cycles ~~at least~~ of eight hours ~~long and greater in length~~, the owner or operator may either test in ~~compliance~~ accordance with the test procedures ~~defined~~ in subsection (f)(3)(A)(i) ~~or of this Section or the owner or operator may~~ elect to perform tests under, pursuant to either Method 25A or Method 18, ~~only~~ during only those portions of each emission event which define the emission profile of each emission event occurring within the batch cycle. For each emission event ~~lasting of~~ less than four hours ~~in duration~~, the owner or operator mustshall test continuously over the entire emission event ~~under as set forth in~~ subsection (f)(3)(A)(i) ~~of this Section~~. For each emission event ~~lasting more of greater~~ than four hours ~~in duration~~, the owner or operator mustshall elect ~~either~~ to perform at least one-hour minimum of three one-hour test runs during the emission event or ~~shall~~ test continuously over the entire emission event within each single unit operation in the batch process train. To demonstrate that the portion of the emission event to be tested ~~defines~~ define the emission profile for the emission event, the owner or operator electing to rely on this option mustshall develop an emission profile for the entire emission event. ~~The Such~~ emission profile mustshall be based on upon either process knowledge or test data collected. Examples of information that could constitute process knowledge include, ~~but are not limited to,~~ calculations based on material balances and process stoichiometry. Previous test results may be used if ~~the provided such~~ results are still relevant to the current process vent stream conditions.
- iii) For ~~purposes of~~ subsection (f)(3) ~~of this Section, the term~~ "emission event" ~~means shall be defined as~~ a discrete period of venting that is associated with a single unit operation. For example, a displacement of vapor resulting from the charging of a single unit operation with VOM will result in a discrete emission event that will last through the duration

of the charge and will have an average flow rate equal to the rate of the charge. The expulsion of expanded single unit operation vapor space when the vessel is heated is also an emission event. Both ~~of these~~ examples of emission events and others may occur in the same single unit operation during ~~the course of~~ the batch cycle. If the flow rate measurement for any emission event is zero, in ~~compliance~~ with subsection (f)(2) ~~of this Section~~, then ~~thesuch~~ event is not an emission event for ~~purposes of this Section~~.

- B) The mass emission rate from the process vent or inlet to the control device ~~must~~ be determined by combining concentration and flow rate measurements taken simultaneously at sampling sites selected in ~~compliance~~ with subsection (f)(1) ~~of this Section~~ throughout the batch cycle;
- C) The mass emission rate from the control device outlet ~~must~~ be obtained by combining concentration and flow rate measurements taken simultaneously at sampling sites selected in ~~compliance~~ with subsection (f)(1) ~~of this Section~~ throughout the batch cycle; and
- D) The efficiency of the control device ~~must~~ be determined by integrating the mass emission rates obtained in subsections (f)(3)(B) and (f)(3)(C) ~~of this Section~~, over the time of the batch cycle and dividing the difference in inlet and outlet mass flow totals by the inlet mass flow total.

- g) Upon request by the Agency to conduct testing, an owner or operator of a batch operation which has installed a scrubber, a shell and tube condenser using a non-refrigerated cooling media, or any other control device which meets the criteria of Section 218.501(c) ~~of this Subpart~~, ~~must~~ demonstrate that ~~thesuch~~ device achieves the control efficiency ~~underapplicable within~~ Section 218.501 ~~of this Subpart~~ upon ~~the earlier to occur of~~ the date the device is replaced or December 31, 1999, whichever is earlier.
- h) The owner or operator of a batch operation may propose an alternative test method or procedures to demonstrate compliance with the control requirements ~~set forth~~ in Section 218.501 ~~of this Subpart~~. ~~TheSuch~~ method or procedures ~~must~~ be approved by the Agency and USEPA ~~throughas evidenced by~~ federally enforceable permit conditions.

- i) ~~WithoutIn the absence of~~ a request by the Agency to conduct performance testing in ~~complianceaccordance~~ with ~~the provisions of~~ this Section, a source may demonstrate compliance by ~~usingthe use of~~ engineering estimates or process stoichiometry.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.504 Monitoring Requirements for Batch Operations

- a) Every owner or operator using an afterburner to comply with Section 218.501 ~~mustof this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, temperature monitoring devices with an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being measured expressed in degrees Celsius, equipped with continuous recorders.
- 1) ~~IfWhere~~ a catalytic afterburner is used, temperature monitoring devices ~~mustshall~~ be installed in the gas stream immediately before and after the catalyst bed.
 - 2) ~~IfWhere~~ an afterburner other than a catalytic afterburner is used, a temperature monitoring device ~~mustshall~~ be installed in the combustion chamber.
- b) Every owner or operator using a flare to comply with Section 218.501 ~~mustof this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, a heat sensing device, such as an ultra-violet beam sensor or thermocouple, at the pilot light to indicate continuous presence of a flame.
- c) Every owner or operator using a scrubber to comply with ~~this~~ Section 218.501 ~~mustof this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, ~~the following~~:
- 1) A temperature monitoring device for scrubbant liquid having an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being monitored expressed in degrees Celsius and a specific gravity device for scrubbant liquid, each equipped with a continuous recorder; or
 - 2) A VOM monitoring device used to indicate the concentration of VOM exiting the control device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.
- d) Every owner or operator using a condenser to comply with Section 218.501

~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to manufacturer's specifications, ~~the following~~:

- 1) A condenser exit temperature monitoring device equipped with a continuous recorder and having an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being monitored expressed in degrees Celsius; or
- 2) A VOM monitoring device used to indicate the concentration of VOM such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.

e) Every owner or operator using a carbon absorber to comply with this Subpart ~~must shall~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, ~~the following equipment~~:

- 1) An integrating regeneration steam flow monitoring device ~~with having~~ an accuracy of $\pm 10\%$ ~~10 percent~~, and a carbon bed temperature monitoring device ~~with having~~ an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being monitored expressed in degrees Celsius, both equipped with a continuous recorder; or
- 2) A VOM monitoring device used to indicate the concentration level of VOM exiting ~~the such~~ device based on a detection principle such as infra-red, photoionization, or thermal conductivity, each equipped with a continuous recorder.

f) Every owner or operator using a boiler or process heater with a design heat input capacity less than 44 Mw to comply with Section 218.501 ~~must of this Subpart shall~~ install, calibrate, maintain, and operate, according to the manufacturer's specifications, a temperature monitoring device in the firebox with an accuracy of $\pm 1\%$ ~~1 percent~~ of the temperature being measured expressed in degrees Celsius, equipped with a continuous recorder. Any boiler or process heater in which all process vent streams are introduced with primary fuel is exempt from this requirement.

g) The owner or operator of a process vent ~~will shall~~ be permitted to monitor by an alternative method or may monitor parameters other than those ~~listed~~ in subsections (a) through (f) ~~of this Section~~, if approved by the Agency and USEPA. ~~The Such~~ alternative method or parameters ~~must shall~~ be ~~contained~~ in the source's operating permit as federally enforceable permit conditions.

h) ~~Despite Notwithstanding~~ subsections (a) through (g) ~~of this Section~~, sources using a scrubber, shell and tube condenser using a non-refrigerated cooling media, or

other control device meeting the criteria of Section 218.501(c) ~~of this Subpart~~, are required to monitor compliance with ~~the requirements of~~ this Subpart on and after the ~~earlier to occur of~~ the date ~~the~~ such device is replaced for any reason or December 31, 1999, whichever is earlier.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.505 Reporting and Recordkeeping for Batch Operations

- a) Every owner or operator of a de minimis single unit operation or batch process train exempt under Section 218.500(c)(1) or (c)(2) ~~must of this Subpart shall~~ keep records of the uncontrolled total annual mass emissions for any de minimis single unit operation or batch process train, as applicable, and documentation verifying these values or measurements. The documentation ~~must shall~~ include the engineering calculations, any measurements made in ~~compliance accordance~~ with Section 218.503 ~~of this Subpart~~, and the potential or permitted number of batch cycles per year, or, in the alternative, total production as represented in the source's operating permit.
- b) Every owner or operator of a single unit operation exempt under Section 218.500(b)(3) or (d) ~~must of this Subpart shall~~ keep the following records:
 - 1) The uncontrolled total annual mass emissions and documentation verifying these values or measurements. The documentation ~~must shall~~ include any engineering calculations, any measurements made in ~~compliance accordance~~ with Section 218.503 ~~of this Subpart~~, and the potential or permitted number of batch cycles per year, or, in the alternative, total production ~~under as represented in~~ the source's operating permit.
 - 2) The average flow rate in scfm and documentation verifying this value.
- c) Every owner or operator of a batch operation subject to the control requirements of Section 218.501 ~~must of this Subpart shall~~ keep records of the following parameters required to be monitored under Section 218.504 ~~of this Subpart~~:
 - 1) If using a thermal or catalytic afterburner to comply with Section 218.501 ~~of this Subpart~~, records indicating the average combustion chamber temperature of the afterburner (or the average temperature upstream and downstream of the catalyst bed for a catalytic afterburner), measured continuously and averaged over the same time period as the performance test.

- 10652 2) If using a flare (i.e., steam-assisted, air-assisted, or nonassisted) to comply
 10653 with Section 218.501 ~~of this Subpart~~, continuous records of the flare pilot
 10654 flame monitoring and records of all periods of operations during which the
 10655 pilot flame is absent.
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- 10657 3) If using any of the following as a control device, the following records:
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- 10659 A) Where a scrubber is used, the exit specific gravity (or alternative
 10660 parameter which is a measure of the degree of absorbing liquid
 10661 saturation, if approved by the Agency) and the average exit
 10662 temperature of the absorbing liquid, measured continuously and
 10663 averaged over the same time period as the performance test (both
 10664 measured while the vent stream is routed normally);
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- 10666 B) Where a condenser is used, the average exit (product side)
 10667 temperature measured continuously and averaged over the same
 10668 time period as the performance test while the vent stream is routed
 10669 normally;
- 10670
- 10671 C) Where a carbon adsorber is used, the total steam mass flow
 10672 measured continuously and averaged over the same time period as
 10673 the performance test (full carbon bed cycle), temperature of the
 10674 carbon bed after regeneration (and within 15 minutes after
 10675 completion of any cooling cycle(s)), and duration of the carbon
 10676 bed steaming cycle (all measured while the vent stream is routed
 10677 normally); or
- 10678
- 10679 D) As an alternative to subsection (c)(3)(A), (c)(3)(B), or (c)(3)(C) ~~of~~
 10680 ~~this Section~~, at a minimum, records indicating the concentration
 10681 level or reading indicated by the VOM monitoring device at the
 10682 outlet of the scrubber, condenser, or carbon adsorber, measured
 10683 continuously and averaged over the same time period as the
 10684 performance test (while the vent stream is routed normally).
- 10685
- 10686 d) Every owner or operator of a single unit operation claiming a vent stream
 10687 concentration exemption level ~~under, as set forth in~~ Section 218.500(d)(1) ~~must of~~
 10688 ~~this Subpart, shall~~ maintain records to indicate the vent stream concentration is
 10689 ~~less than or equal to 500 ppmv or less;~~ and ~~must shall~~ notify the Agency in writing
 10690 if the vent stream concentration at any time equals or exceeds 500 ppmv, within
 10691 60 days after ~~the such~~ event. ~~The Such~~ notification ~~must shall~~ include a copy of all
 10692 records of ~~the such~~ event.
- 10693
- 10694 e) An owner or operator of a batch operation subject to the control requirements of

Section 218.501 ~~of this Subpart~~ may maintain alternative records other than those ~~listed~~ in subsection (c) ~~of this Section~~. Any alternative recordkeeping mustshall be approved by the Agency and USEPA and mustshall be ~~contained~~ in the source's operating permit as federally enforceable permit conditions.

- f) ~~Despite Notwithstanding~~ subsections (a) through (e) ~~of this Section~~, any owner or operator of a batch operation which uses either a scrubber, shell and tube condenser using non-refrigerated cooling media, or other control device meeting the criteria of Section 218.501(c) ~~mustof this Subpart, is required to~~ monitor compliance with ~~the requirements of~~ this Subpart on and after ~~the earlier to occur~~ of the date ~~thesueh~~ device is replaced for any reason or December 31, 1999, whichever is earlier.
- g) The owner or operator of a de minimis single unit operation or batch process train exempt from the control requirements of Section 218.500(c) ~~mustof this Subpart shall~~ notify the Agency in writing if the uncontrolled total annual mass emissions from ~~thesueh~~ de minimis single unit operation or batch process train exceed the threshold in Section 218.500(c)(1) or (c)(2) ~~of this Subpart~~, respectively, within 60 days after the event occurs. ~~TheSueh~~ notification mustshall include a copy of all records of ~~thesueh~~ event.
- h) Every owner or operator of a batch operation required to keep records under this Section mustshall maintain ~~thesueh~~ records at the source for ~~at least a minimum period of~~ three years and mustshall make all ~~thesueh~~ records available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.506 Compliance Date

Every owner or operator of a batch operation subject to Sections 218.500 through 218.506 ~~mustof this Subpart shall~~ comply with its ~~requirementsstandards, limitations and mandates~~ by March 15, 1996, or upon initial ~~startupstart-up~~, whichever is later.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.520 Emission Limitations for Air Oxidation Processes

- a) ~~A~~No person must notshall cause or allow the emission of VOM from any process vent stream unless the process vent stream is vented to a combustion device which is designed and operated either:
 - 1) To reduce the volatile organic emissions vented to it with an efficiency of

at least ~~ninety-eight percent (98%)~~ by weight; or

- 2) To emit VOM at a concentration less than 20 ppm~~twenty parts per million~~ by volume, dry basis.

b) Combustion Device at a Phthalic Anhydride Air Oxidation Process

- 1) ~~Despite Notwithstanding~~ subsection (a) ~~above~~, and subject to subsection (b)(2) ~~below~~, ~~and~~ a person ~~must not shall~~ cause or allow the emissions of VOM through an existing combustion device at a phthalic anhydride air oxidation process, unless the combustion device is operated to achieve:

- A) 90% control of the volatile organic emissions vented to it; or

- B) VOM emissions concentration of less than 50 ~~ppm~~~~parts per million~~ by volume, dry basis.

- 2) Any existing combustion device subject to subsection (b)(1) ~~must above is required to~~ meet the 98%~~98 percent~~ emissions limit ~~set forth~~ in subsection (a) ~~above~~ either upon replacing the combustion device for any reasons, including, ~~but not be limited to~~, normal maintenance, malfunction, accident, and obsolescence, or ~~the date of~~ December 31, 1999, whichever comes first. A combustion device is considered ~~to be~~ replaced when:

- A) ~~The entire~~~~All of the~~ device is replaced; or

- B) When the cost of the repair of the device or the cost of replacement of part of the device exceeds 50% of the cost ~~to replace~~~~of replacing~~ the entire device with a device which complies.

- c) The limitations of subsection (a) ~~above shall~~ apply to any process vent stream or combination of process vent streams with a TRE index~~Total Resource Effectiveness Index (TRE)~~ less than or equal to 6.0. TRE ~~must shall~~ be determined by the following methods:

- 1) If an air oxidation process has more than one process vent stream, TRE ~~must shall~~ be the more stringent of either the TRE based ~~on upon~~ a combination of the process vent streams or the TRE based ~~on upon~~ each individual process vent stream.

- 2) The TRE of a process vent stream and the TRE of a combination of process vent streams, whichever is applicable, ~~must shall~~ be determined according to the following equation:

$$TRE = E(-1)[a + bF(n) + cF + dFH + e(F \times H)(n) + fF(0.5)]$$

where:

- n = 0.88;
 TRE = Total resource effectiveness index;
 F = Vent stream flowrate (scm/min), at a standard temperature of ~~20 °C~~20°C;
 E = Hourly measured emissions in kg/hr;
 H = Net heating value of vent stream (MJ/scm), where the net enthalpy per mole of offgas is based on combustion at ~~25 °C~~25°C and 760 mmHg, but the standard temperature ~~to determine for determining~~ the volume corresponding to one mole is ~~20 °C~~20°C, as in the definition of "Flow";
 a, b, c, d, e, and f = Coefficients obtained by use of Appendix D.

- 3) For nonchlorinated process vent streams, if the net heating value, H, is greater than 3.6 MJ/scm, F ~~must~~ be replaced by F' ~~to calculate for purposes of calculating~~ TRE. F' is computed as follows:

$$F' = FH / 3.6$$

where F and H are as defined in subsection (c)(2) ~~of this Section~~.

- 4) The actual numerical values used in the equation ~~described~~ in subsection (c)(2) ~~must~~ be determined as follows:
- A) All reference methods and procedures ~~to determine for determining~~ the flow (F), hourly emissions (E), and net heating (H); value ~~must~~ be in accordance with Appendix C.
- B) All coefficients ~~described~~ in subsection (c)(2) ~~must comply of this Section shall~~ be in ~~compliance~~ ~~accordance~~ with Appendix D.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.522 Savings Clause

The owner or operator of an air oxidation process with a TRE of 1.0 or less ~~must~~ have complied with ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ by the dates ~~set forth~~ in Section 218.106(a) and (b) ~~of this Part~~. Sources ~~that are~~ subject to 218.520(b) ~~of this Subpart~~ that

become subject to the control requirements of 218.520(a) ~~of this Subpart~~ after the compliance dates ~~set out~~ in 218.106(a) and (b) ~~must of this Part shall~~ comply with the timetable ~~inset forth within~~ Section 218.520(b).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.523 Compliance

The emissions limitations for air oxidation processes ~~located~~ in Section 218.520(a) ~~apply of this Subpart are applicable~~ to air oxidation processes on October 25, 1994.

- a) An owner or operator of an air oxidation process with a TRE of 6.0 or less that is subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ on October 25, 1994, ~~must shall~~ comply with ~~the provisions of~~ Section 218.520(a) by December 31, 1999, or upon startup of the emission unit, whichever comes first. This subsection does not supersede the Savings Clause in Section 218.522 ~~of this Part~~.
- b) An owner or operator of an air oxidation process that becomes subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ after October 25, 1994, ~~must shall~~ comply with ~~the requirements of~~ Section 218.520(a) upon startup of the emission unit.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.524 ~~Determining~~ Determination of Applicability

- a) Sources subject to ~~the requirements of~~ Section 218.520(a) ~~of this Subpart~~ either through application of Section 218.520(c) ~~of this Subpart~~ or ~~through~~ continued application under Section 218.522 ~~must of this Subpart shall~~ continue to be subject to the applicable limitations even if operations change ~~so as~~ to yield result in a TRE ~~that is~~ above the level that ~~which~~ initially made the regulation applicable to the source's operations.
- b) ~~Despite Notwithstanding~~ Section 218.520(c) ~~of this Subpart~~, any air oxidation process that uses utilizes a combustion device to control process vent streams at any time ~~must shall~~ maintain the process in compliance with ~~the provisions of~~ Section 218.520(a) ~~of this Subpart~~ at all times ~~thereafter~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.526 Testing and Monitoring

- a) Upon reasonable request by the Agency, the owner or operator of an air oxidation

process ~~must~~ shall demonstrate compliance with this Subpart by ~~using~~ use of the methods ~~specified~~ in Appendix C. This Section does not limit ~~the~~ USEPA's authority, under the ~~CAA Clean Air Act~~, to require demonstrations of compliance.

- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must~~ shall notify the Agency of that intent ~~at least~~ not less than 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART W: AGRICULTURE

Section 218.541 Pesticide Exception

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to the spraying or use of insecticides, herbicides, or other pesticides.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART X: CONSTRUCTION

Section 218.561 Architectural Coatings

~~A~~ No person ~~must not~~ shall cause or allow the sale or use of any architectural coating containing more than ~~20%~~ 20 percent by volume of photo-chemically reactive material in containers ~~with~~ having a capacity of more than one gallon.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.562 Paving Operations

~~The provisions of~~ Sections 218.301 and 218.302 ~~do of this Part shall~~ not apply to the application of paving asphalt and pavement marking paint from sunrise to sunset.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.563 Cutback Asphalt

- a) ~~A~~ No person ~~must not~~ shall cause or allow the use or application of cutback asphalt for paving, resurfacing, reconditioning, repairing, or otherwise maintaining a roadway unless:

- 1) The use or application of the cutback asphalt commences on or after October 1 of any year and ~~the~~^{such} use or application is completed by April 30 of the following year; ~~or~~
 - 2) The cutback asphalt is a long-life stockpile material which remains in stock after April 30 of each year and ~~as such it~~ may be used until depleted for patching potholes and for other similar repair work; or
 - 3) The cutback asphalt is to be used solely as an asphalt prime coat.
- b) Sources subject to this Section are not required to submit or obtain an Agency approved compliance plan or project completion schedule under 35 Ill. Adm. Code 201, Subpart H.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Y: GASOLINE DISTRIBUTION

Section 218.581 Bulk Gasoline Plants

- a) Subject to subsection (e) ~~of this Section~~, ~~and~~ a person ~~must not~~^{may} cause or allow the transfer of gasoline from a delivery vessel into a stationary storage tank located at a bulk gasoline plant unless:
- 1) The delivery vessel and the stationary storage tank are each equipped with a vapor collection system that meets the requirements of subsection (d)(4) ~~of this Section~~;
 - 2) Each vapor collection system is operating;
 - 3) The delivery vessel displays the appropriate sticker ~~under~~^{pursuant to the} ~~requirements of~~ Sections 218.584 (b) or (d) ~~of this Part~~;
 - 4) The pressure relief ~~valve or valves~~^{valve(s)} on the stationary storage tank and the delivery vessel are set to release at no less than 0.7 psi or the highest pressure allowed by state or local fire codes or the guidelines of the National Fire Prevention Association; and
 - 5) The stationary storage tank is equipped with a submerged loading pipe.
- b) Subject to subsection (f) ~~of this Section~~, ~~and~~ a person ~~must not~~^{may} cause or allow the transfer of gasoline from a stationary storage tank located at a bulk gasoline plant into a delivery vessel unless:

- 1) The requirements ~~set forth~~ in subsections (a)(1) through (a)(4) ~~of this Section~~ are met; and
 - 2) Equipment is available at the bulk gasoline plant to provide for the submerged filling of the delivery vessel or the delivery vessel is equipped for bottom loading.
- c) Subject to subsection (e) ~~of this Section~~, each owner of a stationary storage tank located at a bulk gasoline plant must ~~shall~~:
- 1) Equip each stationary storage tank with a vapor control system that meets the requirements of subsection (a) or (b) ~~of this Section~~, whichever applies ~~is applicable~~;
 - 2) Provide instructions to the operator of the bulk gasoline plant describing necessary maintenance operations and procedures that promptly notify ~~for prompt notification of~~ the owner in case ~~of~~ any ~~malfunction of a~~ vapor control system malfunctions; and
 - 3) Repair, replace, or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (e) ~~of this Section~~, each operator of a bulk gasoline plant must ~~shall~~:
- 1) Maintain and operate each vapor control system in compliance ~~accordance~~ with the owner's instructions;
 - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system; ~~and~~
 - 3) Maintain gauges, meters, or other specified testing devices in proper working order;
 - 4) Operate the bulk plant vapor collection system and gasoline loading equipment to prevent ~~in a manner that prevents~~:
 - A) Gauge pressure from exceeding 45.7 cm (18 in.) of water and vacuum from exceeding 15.2 cm (6 in.) of water, as measured as close as possible to the vapor hose connection; and

- B) A reading ~~at least 100%~~~~equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in ~~compliance~~~~accordance~~ with the procedure ~~described~~ in "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", Appendix B, EPA 450/2-78-051, ~~(incorporated by reference in Section 218.112)~~~~of this Part~~; and
- C) Avoidable leaks of liquid during loading or unloading operations.
- 5) Provide a pressure tap or equivalent on the bulk plant vapor collection system ~~in order~~ to allow the determination of compliance with subsection (d)(4)(A) ~~of this Section~~; and
- 6) Within 15 business days after discovery of any leak by the owner, the operator, the Agency, or ~~the~~ USEPA, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) or (B) ~~of this Section~~.
- e) The requirements of subsections (a), (c), and (d) ~~of this Section shall~~ not apply to:
- 1) Any stationary storage tank with a capacity of less than 2,177 ~~l~~ (575 gal); or
- 2) Any bulk gasoline plant whose daily gasoline throughput is less than 15,140 ~~l~~ (4,000 gal/day) on a ~~30-day~~~~thirty-day~~ rolling average.
- f) ~~Subsection~~~~The requirements of subsection~~ (b) ~~applies of this Section shall apply~~ only to bulk gasoline plants whose daily gasoline throughput is ~~at least~~~~greater than or equal to~~ 15,140 ~~l~~ (4,000 gal/day) on a ~~30-day~~~~thirty-day~~ rolling average.
- g) Any bulk gasoline plant which is ever subject to subsections (a), (b), (c), or (d) ~~must~~~~shall~~ always be subject to these ~~subsections~~~~paragraphs~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.582 Bulk Gasoline Terminals

- a) ~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the transfer of gasoline into any delivery vessel from any bulk gasoline terminal unless:
- 1) The bulk gasoline terminal is equipped with a vapor control system that limits emission of VOM to 80 mg/l (0.00067 lbs/gal) of gasoline loaded;

- 2) The vapor control system is operating and all vapors displaced in the loading of gasoline to the delivery vessel are vented only to the vapor control system;
 - 3) There is no liquid drainage from the loading device when it is not in use;
 - 4) All loading and vapor return lines are equipped with fittings which are vapor tight; and
 - 5) The delivery vessel displays the appropriate sticker ~~underpursuant to the requirements of~~ Section 218.584(b) or (d) ~~of this Part~~; or, if the terminal is driver-loaded, the terminal owner or operator ~~will~~shall be deemed to be in compliance with this Section when terminal access authorization is limited to those owners ~~or~~and/or operators of delivery vessels, ~~or both~~, who have provided a current certification as required by Section 218.584(c)(3) ~~of this Part~~.
- b) The operator of a bulk gasoline terminal ~~must~~shall:
- 1) Operate the terminal vapor collection system and gasoline loading equipment ~~to prevent in a manner that prevents~~:
 - A) Gauge pressure from exceeding 18 inches of water and vacuum from exceeding ~~six~~6 inches of water as measured as close as possible to the vapor hose connection; and
 - B) A reading ~~at least 100% equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in ~~compliance accordance~~ with the procedure ~~described~~ in EPA 450/2-78-051 Appendix B, incorporated by reference in Section 218.112 ~~of this Part~~; and
 - C) Avoidable leaks of liquid during loading or unloading operations.
 - 2) Provide a pressure tap or equivalent on the terminal vapor collection system ~~in order~~ to allow the determination of compliance with Section 218.582(d)(1)(A) ~~of this Part~~; and
 - 3) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (c)(1)(A) or (B) ~~of this Section~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.583 Gasoline Dispensing Operations – Storage Tank Filling Operations

- a) Subject to subsection (b), ~~any~~ person ~~must not~~ shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing operation unless:
 - 1) The tank is equipped with a submerged loading pipe; ~~and~~
 - 2) The vapors displaced from the storage tank during filling are processed by a vapor control system that includes at least one ~~or more~~ of the following:
 - A) A vapor collection system that meets the requirements of subsection (d)(4); ~~or~~
 - B) A refrigeration-condensation system or any other system approved by the Agency and approved by ~~the~~ USEPA as a SIP revision, that recovers at least 90% ~~90 percent~~ by weight of all vaporized organic material from the equipment being controlled; and
 - C) The delivery vessel displays the appropriate sticker under ~~pursuant to the requirements of~~ Section 218.584(b) or (d) ~~of this Part; and~~
 - 3) By March 15, 1995, all tank vent pipes are equipped with pressure/vacuum relief valves with the following design specifications:
 - A) The pressure/vacuum relief valve ~~must~~ shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of at least ~~no less than~~ 6.0 inches water column; or
 - B) The pressure/vacuum relief valve ~~must~~ shall meet the requirements of Section 218.586(c) ~~of this Part; and~~
 - 4) The owner or operator of a gasoline dispensing operation demonstrates compliance with subsection (a)(3) ~~of this Section;~~ by March 15, 1995, or within 30 days after ~~installing~~ installation of each pressure/vacuum relief valve, whichever is later, and then at least annually ~~thereafter~~, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test ~~must~~ shall be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system ~~must~~ shall be adequate. The owner or operator ~~must~~ shall

maintain any records required by this subsection for ~~a period of~~ three years.

- b) ~~Subsections~~~~The requirements of subsections~~ (a)(2) and (a)(3) ~~do~~shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing operation if:
- 1) The tank is equipped with a floating roof; or other system of equal or better emission control approved by the Agency and approved by ~~the~~ USEPA as a SIP revision;
 - 2) The tank has a capacity of less than ~~2,000~~2000 gallons and was in place and operating before January 1, 1979; or
 - 3) The tank has a capacity of less than 575 gallons.
- c) Subject to subsection (b), each owner of a gasoline dispensing operation ~~must~~shall:
- 1) Install all control systems and make all process modifications required by subsection (a);
 - 2) Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any ~~malfunction of a~~ vapor control system malfunction; and
 - 3) Repair, replace, or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (b), each operator of a gasoline dispensing operation ~~must~~shall:
- 1) Maintain and operate each vapor control system in ~~compliance~~accordance with the owner's instructions;
 - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - 3) Maintain gauges, meters, or other specified testing devices in proper working order;

- 4) Operate the vapor collection system and delivery vessel unloading points ~~to prevent in a manner that prevents:~~
 - A) A reading ~~at least 100% equal to or greater than 100 percent~~ of the lower explosive limit (LEL measured as propane) when tested in ~~compliance accordance~~ with the procedure ~~described~~ in EPA 450/2-78-051 ~~Appendix appendix~~ B₂ incorporated by reference in Section 218.112 ~~of this Part~~; and
 - B) Avoidable leaks of liquid during the filling of storage tanks; and
- 5) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.584 Gasoline Delivery Vessels

- a) Any delivery vessel equipped for vapor control by use of vapor collection equipment:
 - 1) ~~Must Shall~~ have a vapor space connection ~~that is~~ equipped with fittings which are vapor tight;
 - 2) ~~Must Shall~~ have its hatches closed at all times during loading or unloading operations, unless a top loading vapor recovery system is used;
 - 3) ~~Must Shall~~ not internally exceed a gauge pressure of 18 inches of water or a vacuum of ~~six~~6 inches of water;
 - 4) ~~Must Shall~~ be designed and maintained to be vapor tight at all times during normal operations;
 - 5) ~~Must Shall~~ not be refilled in Illinois at other than:
 - A) A bulk gasoline terminal that complies with ~~the requirements of~~ Section 218.582 ~~of this Part~~; or
 - B) A bulk gasoline plant that complies with ~~the requirements of~~ Section 218.581(b) ~~of this Part~~.
 - 6) ~~Must Shall~~ be tested annually in ~~compliance accordance~~ with Method 27,

40 CFR ~~60.Appendix A-860, Appendix A~~, incorporated by reference in Section 218.105. Each vessel must be repaired and retested within 15 business days after discovery of the leak by the owner, operator, or the Agency, when it fails to sustain:

- A) A pressure drop of ~~up to no more than~~ three inches of water in five minutes; and
- B) A vacuum drop of ~~up to no more than~~ three inches of water in five minutes.

- b) Any delivery vessel meeting the requirements of subsection (a) ~~must of this Section shall~~ have a sticker affixed to the tank adjacent to the tank manufacturer's data plate which contains the tester's name, the tank identification number, and the date of the test. The sticker ~~must shall~~ be in a form prescribed by the Agency, and, for those delivery vessels subject to 35 Ill. Adm. Code 215 as of December 31, 1987, ~~must shall~~ have been displayed ~~by no later than~~ December 31, 1987.
- c) The owner or operator of a delivery vessel ~~must shall~~:
 - 1) Maintain copies of any test required under subsection (a)(6) ~~of this Section~~ for ~~threeca period of 3~~ years;
 - 2) Provide copies of these tests to the Agency upon request; and
 - 3) Provide annual test result certification to bulk gasoline plants and terminals where the delivery vessel is loaded.
- d) Any delivery vessel which has undergone and passed a test in another state which has a USEPA-approved leak testing and certification program will satisfy the requirements of subsection (a) ~~of this Section~~. Delivery vessels must display a sticker, decal, or stencil approved by the state where tested or comply with the requirements of subsection (b) ~~of this Section~~. All such stickers, decals, or stencils ~~must shall~~ have been displayed ~~by no later than~~ December 31, 1987, for delivery vessels subject to 35 Ill. Adm. Code 215 as of December 31, 1987.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.586 Gasoline Dispensing Operations – Motor Vehicle Fueling Operations

- a) Definitions. For ~~the purposes of~~ this Section, the following definitions apply.
 - 1) "Average monthly volume" means the amount of motor vehicle fuel

dispensed per month from a gasoline dispensing operation based upon a monthly average for the ~~two-year~~^{2-year} period of November 1990 through October 1992, or, if not available, the monthly average for the most recent ~~12~~^{twelve} calendar months. Monthly averages are to include only those months when the operation was operating.

- 2) "Certified" means any vapor collection and control system which has been tested and approved by CARB as having a vapor recovery and removal efficiency of at least 95% (by weight) ~~will~~^{shall} constitute a certified vapor collection and control system. CARB testing and approval is ~~underpursuant to~~ the CARB manual, incorporated by reference at Section 218.112 ~~of this Part~~.
- 3) "Completion of installation" means the successful passing of ~~at least one or more~~^{at least one} of the following tests applicable to the installed vapor collection and control system: Dynamic Backpressure Test, Pressure Decay/Leak Test, and Liquid Blockage Test, incorporated by reference at Section 218.112 ~~of this Part~~.
- 4) "CARB" means California Air Resources Board, P.O. Box 2815, Sacramento, CA 95812.
- 5) "Employee" means any person who performs work for an employer.
- 6) "Operation" means any building, structure, installation, operation, or combination ~~of them~~^{thereof} located on contiguous properties and under common ownership that provides for the dispensing of motor vehicle fuel.
- 7) "Gasoline dispensing operation" means any operation where motor vehicle fuel is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of ~~at least~~^{at least} 2176 liters (575 gallons) ~~or more~~.
- 8) "Modification" means any change, removal, or addition, other than an identical replacement, of any component ~~contained~~ within the vapor collection and control system.
- 9) "Motor vehicle" means any self-propelled vehicle powered by an internal combustion engine, including, ~~but not limited to~~, automobiles and trucks. ~~This definition specifically excludes~~^{Specifically excluded from this definition are} watercraft and aircraft.
- 10) "Motor vehicle fuel" means any petroleum distillate ~~with~~^{having} a Reid vapor pressure of more than 27.6 kilopascals (kPa) (four pounds per

square inch) and which is used to power motor vehicles.

- 11) "Owner or operator" means any person who owns, leases, operates, manages, supervises, or controls (directly or indirectly) a gasoline dispensing operation.
- 12) Reid vapor pressure for gasoline ~~must~~shall be measured in ~~compliance~~accordance with the method ASTM ~~D323-20a~~D323-08, incorporated by reference in Section 218.112~~-of this Part~~.
- 13) "Vapor collection and control system" means any system certified by CARB which limits the discharge to the atmosphere of motor vehicle fuel vapors displaced during the dispensing of motor vehicle fuel into motor vehicle fuel tanks.

b) Applicability. ~~Subsection~~The provisions of subsection (c) ~~applies~~shall apply to any gasoline dispensing operation which dispenses an average monthly volume of more than 10,000 gallons of motor vehicle fuel per month. Compliance ~~must~~ ~~be~~shall be required and demonstrated ~~by the deadline in accordance with the schedule provided~~ in subsection (d).

c) Vapor Collection and Control Systems. ~~An~~No owner or operator of a gasoline dispensing operation subject to ~~the requirements of~~ subsection (b) ~~must not~~shall cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and ~~uses~~utilizes a vapor collection and control system which is properly installed and operated ~~under~~as provided in this subsection (c):

- 1) Any vapor collection and control system installed, used, or maintained has been CARB certified.
- 2) Any vapor collection and control system ~~used~~utilized is maintained in ~~compliance~~accordance with the manufacturer's specifications and the certification.
- 3) No elements or components of a vapor collection and control system are modified, removed, replaced, or otherwise rendered inoperative ~~to prevent in a manner which prevents~~ the system from performing in ~~compliance~~accordance with its certification and design specifications.
- 4) A vapor collection and control system has no defective, malfunctioning, or missing components.

- 11328 5) Operators and employees of the gasoline dispensing operation are trained
 11329 and instructed in the proper operation and maintenance of a vapor
 11330 collection and control system.
 11331
- 11332 6) Instructions are posted in a conspicuous and visible place within the motor
 11333 fuel dispensing area and describe the proper method of dispensing motor
 11334 vehicle fuel with the use of the vapor collection and control system.
 11335
- 11336 d) Compliance. In conjunction with ~~the compliance provisions of~~ Section 218.105
 11337 of this Part, gasoline dispensing operations subject to ~~the requirements of~~
 11338 subsection (c) ~~must~~shall comply and demonstrate compliance according to the
 11339 following:
 11340
- 11341 1) Gasoline dispensing operations that operate at any time ~~before prior to~~
 11342 January 1, 2014, ~~must~~shall comply with subsection (c) until
 11343 decommissioning is allowed and commenced in ~~compliance~~accordance
 11344 with subsections (i)(I) and (i)(2)(B).
 11345
- 11346 2) ~~Subsection The provisions of subsection~~ (c) ~~do~~shall not apply to any new
 11347 gasoline dispensing operation that commences operating for the first time
 11348 on or after January 1, 2014.
 11349
- 11350 e) Except ~~under as provided in~~ subsection (d), any gasoline dispensing operation that
 11351 becomes subject to ~~the provisions of~~ subsection (c) at any time ~~must~~shall remain
 11352 subject to ~~the provisions of~~ subsection (c) at all times.
 11353
- 11354 f) Upon request by the Agency, the owner or operator of a gasoline dispensing
 11355 operation which claims to be exempt from ~~the requirements of~~ subsection (c)
 11356 ~~must~~shall submit ~~records~~ to the Agency within 30 calendar days ~~after from~~ the
 11357 date of the request records which demonstrate that the gasoline dispensing
 11358 operation is ~~in fact~~ exempt.
 11359
- 11360 g) Recordkeeping and Reporting:
 11361
- 11362 1) Any gasoline dispensing operation subject to subsection (c) ~~must~~shall
 11363 retain at the operation copies of the registration information required
 11364 ~~under at~~ subsection (h).
 11365
- 11366 2) Except ~~under as provided in~~ subsection (g)(4), records and reports required
 11367 ~~under pursuant to~~ this subsection (g) ~~must~~shall be made available to the
 11368 Agency upon request.
 11369
- 11370 3) Records and reports, which ~~must~~shall be maintained by the owner or

operator of a gasoline dispensing operation subject to subsection (c) ~~must,~~
~~shall~~ clearly demonstrate:

- A) That a certified vapor collection and control system has been installed and tested to verify its performance according to its specifications.
 - B) That proper maintenance has been conducted in ~~compliance~~~~accordance~~ with the manufacturer's specifications and requirements.
 - C) The time ~~period~~ and duration of all malfunctions of the vapor collection and control system.
 - D) The motor vehicle fuel throughput of the operation for each calendar month of the previous year.
 - E) That operators and employees are trained and instructed in the proper operation and maintenance of the vapor collection and control system and informed ~~of as to~~ the potential penalties associated with ~~violating the violation of~~ any provision of this Section.
- 4) Any ~~and all~~ records relating to decommissioning ~~must~~~~shall~~ be maintained by the owner or operator of a gasoline dispensing operation for ~~five a~~
~~period of 5~~ years after completion of decommissioning in ~~compliance~~~~accordance~~ with subsection (i). For ~~purposes of~~ this subsection (g)(4), "records" include, ~~but are not limited to,~~ any documents, papers, reports, test results, logs, invoices, forms, certifications, and receipts that relate to decommissioning. Records relating to decommissioning ~~must~~~~shall~~ be made available to the Agency or its designee within 30 minutes after the Agency's, or its designee's, request.

h) Any gasoline dispensing operation subject to subsection (c) ~~must~~~~shall~~ comply with the following registration requirements:

- 1) Upon ~~installing the installation of~~ a vapor collection and control system, the owner or operator of the gasoline dispensing operation ~~must~~~~shall~~ submit to the Agency a registration which provides at minimum the operation name and address, signature of the owner or operator, the CARB Executive Order Number for the vapor collection and control system to be ~~used~~~~utilized~~, the number of nozzles (excluding diesel or kerosene) used for motor vehicle refueling, the monthly average volume of motor vehicle

- 11414 fuel dispensed, the location (including contact person's name, address, and
11415 telephone number) of records and reports required by this Section, and the
11416 date of completion of installation of the vapor collection and control
11417 system.
- 11418
- 11419 2) The registration ~~must~~shall be submitted to the Agency within 30 days after
11420 ~~completing completion of~~ the installation.
- 11421
- 11422 3) A copy of the registration information ~~must~~shall be maintained at the
11423 gasoline dispensing operation.
- 11424
- 11425 4) Upon ~~modifying the modification of~~ an existing vapor collection and
11426 control system, the owner or operator of the gasoline dispensing operation
11427 ~~must~~shall submit to the Agency a registration that details the changes to
11428 the information provided in the previous registration of the vapor
11429 collection and control system and which includes the signature of the
11430 owner or operator. The registration must be submitted to the Agency
11431 within 30 days after ~~completing completion of~~ the modification.
- 11432
- 11433 i) Decommissioning. The owner or operator of a gasoline dispensing operation
11434 subject at any time to subsection (c) ~~must~~shall decommission vapor collection and
11435 control systems in ~~compliance accordance~~ with ~~the provisions of~~ this subsection
11436 (i).
- 11437
- 11438 1) Compliance
- 11439
- 11440 A) Beginning January 1, 2014, an owner or operator of a gasoline
11441 dispensing operation may commence decommissioning of vapor
11442 collection and control systems. The decommissioning of vapor
11443 collection and control systems must be conducted in
11444 ~~compliance accordance~~ with ~~all of the provisions specified in~~
11445 subsection (i)(2).
- 11446
- 11447 B) ~~By No later than~~ December 31, 2016, an owner or operator of a
11448 gasoline dispensing operation ~~must~~shall complete the
11449 decommissioning of all vapor collection and control systems in
11450 ~~compliance accordance~~ with ~~all of the provisions specified in~~
11451 subsection (i)(2).
- 11452
- 11453 2) Decommissioning Procedures and Standards. The decommissioning of
11454 vapor collection and control systems ~~must~~shall be conducted as follows:
11455

- 11456 A) The owner or operator of a gasoline dispensing operation ~~must~~shall
 11457 complete and submit a notice of intent form, provided by the
 11458 Agency ~~to notify, notifying~~ the Agency of its intent to
 11459 decommission. The completed notice of intent form ~~must~~shall be
 11460 submitted to the Agency at least 10 days ~~before~~prior to
 11461 commencing decommissioning in ~~compliance~~accordance with
 11462 subsection (i)(2)(B);
- 11463
- 11464 B) The owner or operator of a gasoline dispensing operation ~~must~~shall
 11465 decommission vapor collection and control systems in
 11466 ~~compliance~~accordance with ~~all of the procedures specified in~~
 11467 Section 14.6, except Section 14.6.14, of the Petroleum Equipment
 11468 Institute's "Recommended Practices for Installation and Testing of
 11469 Vapor-Recovery Systems at Vehicle-Fueling Sites", PEI/RP 300-
 11470 09 (PEI), incorporated by reference at Section 218.112 ~~of this Part~~.
 11471 In addition to Section 14.6 of the PEI, the following requirements
 11472 apply to decommissioning:
- 11473
- 11474 i) All decommissioning procedures, except testing ~~must, shall~~
 11475 be performed only by a contractor who is both registered
 11476 with the Illinois Department of Agriculture, Bureau of
 11477 Weights and Measures, in the 3-A Gasoline Pump Meters
 11478 Code ~~under~~pursuant to Section 8.1 of the Weights and
 11479 Measures Act [225 ILCS 470/8.1] and licensed by the
 11480 Office of the State Fire Marshal (OSFM) in the
 11481 installation/retrofitting licensure module ~~under~~pursuant to
 11482 the Petroleum Equipment Contractors Licensing Act [225
 11483 ILCS 729] and implementing regulations at 41 Ill. Adm.
 11484 Code 172. ~~The Any such~~ contractor ~~must~~shall also have the
 11485 appropriate dispenser-manufacturer certification and
 11486 training, if any. ~~If in the event that~~ product piping must be
 11487 broken or an OSFM permit is otherwise required for any
 11488 component of the work, the contractor ~~must~~shall ensure
 11489 that the OSFM-permitted work is performed by the
 11490 appropriate OSFM-licensed contractor and personnel;
- 11491
- 11492 ii) Decommissioning procedures related to testing ~~must~~shall
 11493 be performed only by a contractor who is licensed by
 11494 OSFM in the tank tightness testing licensure module
 11495 ~~under~~pursuant to the Petroleum Equipment Contractors
 11496 Licensing Act and implementing regulations at 41 Ill. Adm.
 11497 Code 172; and
- 11498

iii) The pressure decay test required by the PEI ~~must~~ be passed in ~~compliance~~ with Appendix A of the PEI. The tie-tank test required by the PEI ~~must~~ be conducted and passed in ~~compliance~~ with CARB TP201.3C to ensure that all tanks are properly vented; and

C) The owner or operator of a gasoline dispensing operation and the contractors that performed the decommissioning ~~must~~ complete and sign a decommissioning checklist and certification, provided by the Agency, documenting the decommissioning procedures performed. Within 30 days after completion of the decommissioning procedures ~~underspecified by~~ subsection (i)(2)(B), the owner or operator ~~must~~ provide the completed checklist and certification and the test results to the Agency.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART Z: DRY CLEANERS

Section 218.607 Standards for Petroleum Solvent Dry Cleaners

- a) The owner or operator of a petroleum solvent dry cleaning dryer ~~must~~ either:
- 1) Limit ~~VOM~~ emissions ~~of VOM~~ to the atmosphere to an average of 3.5 ~~kgkilograms~~ of VOM per 100 ~~kgkilograms~~ dry weight of articles dry cleaned; or
 - 2) Install and operate a solvent recovery dryer ~~so in a manner such~~ that the dryer remains closed and the recovery phase continues until a final solvent flow rate of 50 milliliters per minute is attained.
- b) The owner or operator of a petroleum solvent filtration system ~~must~~ either:
- 1) Reduce the VOM content in all filtration wastes to 1.0 ~~kgkilogram~~ or less per 100 ~~kgkilograms~~ dry weight of articles dry cleaned; before disposal; and exposure to the atmosphere; or
 - 2) Install and operate a cartridge filtration system; and drain the filter cartridges in their sealed housings for ~~at least eight hours~~ ~~8 hours or more~~ before their removal.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.608 Operating Practices for Petroleum Solvent Dry Cleaners

~~To~~In order to minimize fugitive solvent emissions, the owner or operator of a petroleum solvent dry cleaning source mustshall employ good housekeeping practices, including the following:

a) General Housekeeping Requirements

- 1) Equipment containing solvent (washers, dryers, extractors, and filters) mustshall remain closed at all times except during load transfer and maintenance. Lint filter and button trap covers mustshall remain closed except when solvent-laden material is being removed.
- 2) Cans, buckets, barrels, and other containers of solvent or ~~of~~ solvent-laden material mustshall be covered except when in use.
- 3) Solvent-laden material mustshall be exposed to the atmosphere ~~only~~ for only the minimum time necessary for load transfer.

b) ~~Installing and operating~~Installation and operation of equipment:

- 1) All cartridge filters mustshall be enclosed and operated in ~~compliance~~accordance with the procedures and specifications recommended by the manufacturer for the cartridge filter. After installation, the cartridges mustshall be inspected, monitored, and maintained in ~~compliance~~accordance with the manufacturer's recommendations; and
- 2) Vents on containers for new solvent and ~~for~~ solvent-containing waste mustshall be constructed and maintained ~~so as~~ to minimize solvent vapor emissions. Criteria for ~~minimizing~~the minimization of solvent vapor emissions include ~~eliminating~~the elimination of solvent buckets and barrels standing open to the atmosphere, and ~~repairing~~the repair of gaskets and seals that expose solvent-rich environments to the atmosphere, to be determined through visual inspection.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.609 Program for Inspection and Repair of Leaks

- a) The owner or operator of a petroleum solvent dry cleaning source mustshall conduct the following visual inspections on a weekly basis:

- 1) Washers, dryers, solvent filters, settling tanks, vacuum stills, and containers and conveyors of petroleum solvent ~~must~~ shall be inspected for visible leaks of solvent liquid.
 - 2) Pipes, hoses, and fittings ~~must~~ shall be inspected for active dripping or dampness.
 - 3) Pumps and filters ~~must~~ shall be inspected for leaks around seals and access covers.
 - 4) Gaskets and seals ~~must~~ shall be inspected for wear and defects.
- b) Leaks of petroleum solvent liquid and vapors ~~must~~ shall be repaired within three working days ~~after~~ of detection, unless necessary replacement parts are not on site.
- 1) If necessary, repair parts ~~must~~ shall be ordered within three working days ~~after detecting~~ of detection of the leak.
 - 2) The leak ~~must~~ shall be repaired within three days ~~after~~ of delivery of necessary parts.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.610 Testing and Monitoring

- a) Compliance with Sections 218.607(b)(2), 218.608, and 218.609 ~~must of this Part~~ shall be determined by visual inspection; and
- b) Compliance with Sections 218.607(a)(2) and (b)(1) ~~must of this Part~~ shall be determined by methods ~~described~~ in EPA-450/3-82-009 (1982), incorporated by reference in Section 218.112 ~~of this Part~~.
- c) If a control device is used to comply with Section 218.607(a)(1) ~~of this Part~~, then compliance ~~must~~ shall be determined using 40 CFR ~~60. Appendix A-7~~ 60. Appendix A, Method 25, ~~(1984)~~ incorporated by reference in Section 218.112 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.611 Applicability for Petroleum Solvent Dry Cleaners

~~The provisions of~~ Sections 218.607 through 218.610 ~~of this Part~~ shall apply to petroleum solvent dry cleaning sources that:

a) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM, and are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP revision; or

b) Have a potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART AA: PAINT AND INK MANUFACTURING

Section 218.620 Applicability

a) This Subpart ~~applies~~shall apply to all paint and ink manufacturing sources which:

1) Include process emission units not subject to Subparts B, E, F (excluding Section 218.204(l) ~~of this Part~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, ~~Z~~, or BB ~~of this Part~~; and which as a group both:

A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM if no air pollution control equipment were used; and

B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment; through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP revision; or

2) Produce more than 7,570,820 ~~l~~ (2,000,000 gal) per calendar year of paint or ink formulations; which contain less than 10%~~10 percent~~ (by weight) water; and ink formulations not containing as the primary solvents water, Magic oil, or glycol.

b) This Subpart ~~shall~~ also ~~applies~~apply to all paint and ink manufacturing sources which:

1) Have the potential to emit at least an aggregate 22.7 Mg (25 tons) ~~or more~~ of VOM per year, ~~in aggregate~~, from process emission units that:

A) Are not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; ~~of this Part~~, or

B) Are not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~volatile organic liquid storage tanks, and clean-up solvents operations; or

2) Produce more than 1,892,705 ~~l~~ (500,000 gal) per calendar year of paint or ink formulations which contain less than 10% (by weight) water; and ink formulations not containing as the primary solvents water, Magie oil, or glycol.

c) For ~~the purposes of~~ this Subpart, VOM emissions in the absence of air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.621 Exemption for Waterbase Material and Heatset-Offset Ink

~~The requirements of~~ Sections 218.624, ~~and~~ 218.625, and ~~Section~~ 218.628(a) ~~do of this Part shall~~ not apply to equipment while it is being used to produce either:

- a) Paint or ink formulations which contain at least 10%~~10 percent or more~~ (by weight) water; or
- b) Inks containing Magie oil and glycol as the primary solvent.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.624 Open-Top Mills, Tanks, Vats, or Vessels

~~A~~~~No~~ person ~~must not~~~~shall~~ operate an open-top mill, tank, vat, or vessel with a volume of more than 45 l (12 gal) ~~to produce for the production of~~ paint or ink unless:

- a) The mill, tank, vat, or vessel is equipped with a cover which completely covers the mill, tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft. ~~The~~~~Such~~ cover ~~must~~~~shall~~ extend at least 1.27 cm (0.5 in) beyond the outer rim of the opening or be attached to the rim.

- b) The cover remains closed except when production, sampling, maintenance, or inspection procedures require access.
- c) The cover is maintained in good condition ~~so such~~ that, when in place, it maintains contact with the rim of the opening for at least ~~90%90-percent~~ of the circumference of the rim.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.625 Grinding Mills

- a) ~~A~~No person ~~must not~~shall operate a grinding mill ~~to produce for the production of~~ paint or ink which is not maintained in ~~compliance~~accordance with the manufacturer's specifications.
- b) ~~A~~No person ~~must not~~shall operate a grinding mill fabricated or modified after ~~August 16, 1991, the effective date of this Subpart~~ which is not equipped with fully enclosed screens.
- c) The manufacturer's specifications ~~must~~shall be kept on file at the plant by the owner or operator of the grinding mill and be made available to any person upon verbal or written request during business hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.626 Storage Tanks

- a) The owner or operator ~~must~~shall equip tanks storing VOL with a vapor pressure greater than 10 kPa (1.5 psi) at ~~20 °C (68 °F)~~20° C (68° F) with pressure/vacuum conservation vents set as a minimum at ± 0.2 kPa (0.029 psi). These controls ~~must~~shall be operated at all times. An alternative air pollution control system may be used if it ~~yields results in~~ a greater emission reduction than these controls. Any alternative control system can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision.
- b) Stationary VOL storage containers with a capacity greater than 946 ~~l~~ (250 gal) ~~must~~shall be equipped with a submerged-fill pipe or bottom fill. These controls ~~must~~shall be operated at all times. An alternative control system can be allowed only if approved by the Agency and approved by ~~the~~ USEPA as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.628 Leaks

The owner or operator of a paint or ink manufacturing source ~~must~~shall, ~~for the purpose of detecting leaks,~~ conduct ~~the following~~an equipment monitoring program ~~to detect leaks as set forth below:~~

- a) Each pump ~~must~~shall be checked by visual inspection each calendar week for ~~indications of leaks indicated by, that is,~~ liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, the pump ~~must~~shall be repaired as soon as practicable, but ~~within no later than~~ 15 calendar days after the leak is detected.
- b) Any pump, valve, pressure relief valve, sampling connection, open-ended valve and flange, or connector containing a fluid which is at least ~~10%10 percent~~ VOM by weight ~~and~~ which appears to be leaking on the basis of sight, smell, or sound ~~must~~shall be repaired as soon as practicable, but ~~within no later than~~ 15 calendar days after the leak is detected.
- c) A ~~weather proof,~~ readily visible ~~weather-proof~~ tag, in bright colors such as red or yellow ~~and,~~ bearing an identification number and the date on which the leak was detected, ~~must~~shall be attached to leaking equipment. The tag may be removed ~~when the equipment has been repaired, including adjustment or other alteration, upon repair, that is, when the equipment is adjusted or otherwise altered~~ to allow operation without leaking.
- d) When a leak is detected, the owner or operator ~~must~~shall record the date of detection and repair, and the record ~~must~~shall be retained at the source for at least two years from the date of each detection or each repair attempt. The record ~~must~~shall be made available to any person upon verbal or written request during business hours.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.630 ~~Cleanup~~Clean-Up

- a) ~~A~~No person ~~must not~~shall clean paint or ink manufacturing equipment with organic solvent unless the equipment being cleaned is completely covered or enclosed except for an opening no larger than necessary to allow safe clearance for ~~properly operating~~proper operation of the cleaning equipment, considering the method and materials being used.
- b) ~~A~~No person ~~must~~shall store organic wash solvent ~~only~~ in ~~other than~~ closed containers, unless closed containers are demonstrated to be a safety hazard, ~~and~~ ~~must~~or dispose of organic wash solvent ~~so that only up to 20%in a manner such~~

~~that more than 20 percent~~ by weight is allowed to evaporate into the atmosphere.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.636 Compliance Schedule

Every owner or operator of a source subject to the control requirements of this Subpart ~~must~~shall comply with the requirements ~~of it~~thereof on and after ~~an applicable~~a date ~~undereonsistent with~~undereonsistent with Section 218.106~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.637 Recordkeeping and Reporting

- a) Upon request by the Agency, the owner or operator of an emission source which claims to be exempt from ~~the requirements of~~ this Subpart ~~must~~shall submit records to the Agency within 30 calendar days ~~after~~from the date of the request which document that the emission source is ~~in fact~~ exempt from this Subpart. These records ~~shall~~ include ~~(but are not limited to)~~ the percent water (by weight) in the paint or ink being produced and the quantity of Magie oil, glycol, and other solvents in the ink being produced.
- b) Every owner or operator of a source which is subject to ~~the requirements of~~ this Subpart ~~must~~shall maintain all records necessary to demonstrate compliance with ~~it~~those requirements at the source for three years.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART BB: POLYSTYRENE PLANTS

Section 218.640 Applicability

~~This~~The provisions of this Subpart ~~applies~~shall apply to polystyrene plants which:

- a) ~~Use~~Which use continuous processes to manufacture polystyrene - polybutadiene co-polymer; and
- b) ~~Fall~~Which fall within Standard Industrial Classification Group No. 282, Industry No. 2821, except that the manufacture of polystyrene resins need not be the primary manufacturing process at the plant.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.642 Emissions Limitation at Polystyrene Plants

~~A~~~~No~~ person ~~must not~~~~shall~~ cause or allow the emissions of VOM from the material recovery section to exceed 0.12 kg of ~~VOM~~~~Volatile Organic Material~~ per ~~1,000~~~~1000~~ kg of polystyrene resin produced.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.644 Emissions Testing

- a) Upon a reasonable request by the Agency, the owner or operator of a polystyrene plant subject to this Subpart ~~must~~~~shall~~ at ~~its~~~~his~~ own expense demonstrate compliance by ~~use of the following method:~~ 40 CFR ~~60~~~~Appendix A-760~~, ~~Appendix A~~, Method 25 - Determination of Total Gaseous Non-Methane Organic Emissions as Carbon ~~(1984)~~, incorporated by reference in Section 218.112 ~~of this Part~~.
- b) A person planning to conduct a VOM emissions test to demonstrate compliance with this Subpart ~~must~~~~shall~~ notify the Agency of that intent ~~at least~~~~not less than~~ 30 days before the planned initiation of the ~~test~~~~tests~~ so the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section 218.660 Applicability

- a) Potential to emit:
 - 1) A source is subject to this Subpart if it is not subject to ~~the requirements of~~ Subparts PP, QQ, RR₂ and TT and:
 - A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z₂ or BB₂ ~~of this Subpart~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, volatile organic liquid storage tanks₂ and clean-up solvent operations.

- 2) If a source is subject to this Subpart under subsection (a)(1) as provided above, the requirements of this Subpart applieshall apply to a source's polyester resin products manufacturing process emission units and associated handling of materials, cleanup activity, and formulation activity, if any, which are not regulated by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, or DD of this Subpart.
- b) If a source ceases to fulfill the criteria of subsection (a) above, the requirements of this Subpart continuesshall continue to apply to a polyester resin products manufacturing process emissions unit which was subject to the control requirements of Section 218.666 of this Part.
- c) For the purposes of this Subpart, an emission unit mustshall be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart, or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.666 Control Requirements

- a) Every owner or operator of a polyester resin products manufacturing process subject to this Subpart mustshall comply with the operating requirements in this Sectionbelow:
- 1) Any of the following:
- A) Use polyester resin material with a monomer content as follows:
- i) For polyester resin materials used for products requiring corrosion resistant or fire-retardantfire-retardant materials, a monomer content of up tone more than 48% by weight as applied;
- ii) For polyester resin materials used for products requiring a tensile strength of 10,000 psi or more, including tooling resins, a monomer content of up tone more than 48% by weight as applied;
- iii) For clear gel coat, a monomer content of up tone more than 50% by weight as applied;

- iv) For other pigmented gel coats, a monomer content of up to no more than 45% by weight as applied; or
- v) For all other polyester resin materials, a monomer content of up to no more than 35% by weight as applied.
- B) Use a closed-mold system or pultrusion system which will result in less than 4% weight loss of polyester resin materials;
- C) Use vapor suppressed polyester resin approved by the Agency in the source's permit so such that weight loss from VOM emissions does not exceed 60 grams per square meter of exposed surface area during molding; or
- D) Use any materials or processes that are demonstrated to the satisfaction of the Agency to achieve VOM emission levels equivalent to any of the above. This alternative must be approved by the Agency and the USEPA in a federally enforceable permit or as a SIP revision.
- 2) For spraying operations, in addition to the requirements specified in subsection (a)(1) Section 218.666(a)(1) above, use only high-volume low pressure (HVLP), airless, air-assisted airless, or electrostatic spray equipment, except for touch-up and repair using a hand-held, air-atomized spray gun which has a container for polyester resin material as part of the gun.
- b) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart must shall use closed containers for all polyester resin materials, cleaning materials which contain VOM (including waste cleaning materials), and other materials that contain VOM (including waste resin materials) in such a manner as to effectively control VOM emissions to the atmosphere and in compliance accordance with the practices described in the certification under pursuant to Section 218.670(b)(2)(A).
- c) Any owner or operator of a polyester resin products manufacturing process subject to this Subpart which formulates polyester resin material at the source must shall comply with the following operating requirements:
- 1) A cover must shall be in place on any tank, vat, or vessel with a capacity greater than 7.5 liters (2 gal gallons), including a container in which polyester resin materials are delivered to the source, while polyester resin

materials are being formulated. The cover mustshall:

- A) Completely cover the tank, vat, or vessel opening except for an opening no larger than necessary to allow for safe clearance for a mixer shaft;
- B) Extend at least 1.27 cm (0.5 inch) beyond the outer rim of the opening or be attached to the rim;
- C) Remain closed except when adding or removing material or when sampling or inspection procedures require access; and
- D) Be maintained in good condition sosueh that, when in place, the cover maintains contact with the rim of the opening for at least 90% of the circumference of the rim.

- 2) Carry out emissions mustshall be minimized when a mixer used for formulation of polyester resin material is being removed from a tank, vat, or vessel containing polyester resin material by allowing the material retained on the mixer blades to drain back into the tank, vat, or vessel before the mixer is completely removed from the tank, vat, or vessel.

- d) Any owner or operator of polyester resin products manufacturing processes subject to this Subpart which as a group use more than 4 gallons per day of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) mustshall use a solvent recovery system for thesueh materials. Solvent recovery may be done at the source or by using an off-site commercial solvent recovery service. The waste residue from a solvent recovery system located at the source mustshall not contain more than 20% VOM by weight.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.667 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart mustshall comply with the requirements ~~thereof~~ on and after an applicablethe date undereonsistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.668 Testing

- a) Testing Methods-

- 1) The VOM content of fresh cleaning materials mustshall be determined from supplier data or by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 ~~of this Part~~.
- 2) The VOM content of waste residue from a solvent recovery system mustshall be determined by sampling and analysis using EPA Reference Method 24, incorporated by reference in Section 218.112 ~~of the Part~~.
- 3) The monomer content of polyester resin materials mustshall be determined:
 - A) From supplier data and operating data;
 - B) By sampling and analysis by the methods ~~set forth~~ in SCAQMD Method 312-91, incorporated by reference in Section 218.112 ~~of this Part~~; or
 - C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.
- 4) The weight loss from polyester resin material in a closed-mold system or pultrusion system during molding mustshall be determined:
 - A) From supplier data and operating data;
 - B) By testing of VOM emissions by the methods ~~set forth~~ in Section 218.105; or
 - C) By material balance as follows:

Separately weigh the polyester resin material and the reinforcement materials before they are introduced into the mold. Weigh the molded product after it has cooled so that it can be manually handled, but no sooner than one hour after removal of the product from the mold. The percent weight loss mustshall be determined according to the following equation:

$$PWL = \frac{[1 - (C - B) \times 100]}{A}$$

Where,

PWL = Percent Weight Loss;

- A = Weight of polyester resin materials;
- B = Weight of reinforcement material;
- C = Weight of cooled molded product after at one hour elapsed time.

- D) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.
- 5) The weight loss from a vapor suppressed polyester resin material square meter of exposed surface area mustshall be determined:
 - A) From supplier data and operating data;
 - B) By sampling and analysis by the methods ~~set forth~~ in SCAQMD Method 309-91, incorporated by reference in Section 218.112; or
 - C) By site-specific sampling and analysis methods approved by the Agency and USEPA in a federally enforceable permit.
- 6) ~~If there is~~~~In the event of~~ a difference between data obtained by sampling and analysis and other data, the data from sampling and analysis mustshall govern.
 - b) When in the opinion of the Agency it is necessary to conduct sampling and analysis to demonstrate compliance with Section 218.668 ~~of this Part~~, the owner or operator of a polyester resin products manufacturing process subject to ~~the requirements of~~ this Subpart mustshall, at ~~its~~his own expense, conduct ~~the~~such sampling and analysis in ~~compliance~~accordance with the applicable test methods and procedures ~~specified~~ in subsection (a) ~~above~~. The Agency's decision to invoke this subsection may be based on ~~such~~ factors including, ~~but not limited to~~, a change in operation of the polyester resin products manufacturing process, or a reasonable belief that a previous test resulted in erroneous data.
 - c) Nothing in this Section ~~limitsshall limit~~ the authority of USEPA ~~underpursuant to~~ the ~~CAA Clean Air Act~~, as amended, to require sampling and analysis.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.670 Recordkeeping and Reporting for Exempt Emission Units

Upon request by the Agency, the owner or operator of a polyester resin manufacturing process which is exempt from ~~the requirements of~~ Subpart CC ~~mustof this Part shall~~ submit to the Agency records that document that the polyester resin product manufacturing process is exempt

from those requirements. These records mustshall be submitted within 30 calendar days afterfrom the date of the request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.672 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of a polyester resin products manufacturing process which is subject to ~~the requirements of~~ this Subpart mustshall comply with the following:
 - 1) By an applicable date undereonsistent with Section 218.106 ~~of this Part~~, or upon initial start-up of a process subject to this Subpart, the owner or operator of the subject process mustshall certify to the Agency that the process will be in compliance with Section 218.666(a) ~~of this Subpart~~ on and after the applicable date undereonsistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date as demonstrated by testing in complianceaccordance with Section 218.668 ~~of this Subpart~~. TheSuch certification mustshall include:
 - A) The name and identification number of each polyester resin products manufacturing process at the source;
 - B) The name and identification number of each polyester resin material used in these processes, the means by which it may be applied, and the classification of the polyester resin material under Section 218.666(a)(1)(A) ~~of this Subpart~~;
 - C) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight), and other relevant data to show compliance with the operating requirement, including:
 - i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or fire-retardant ~~fire-retardant~~ materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for thesueh classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, ~~of this Subpart~~;
 - ii) For each polyester resin material which is applied in a

- 12138 closed-mold or pultrusion system ~~so as~~ to comply with
 12139 Section 218.666(a)(1)(B) ~~of this Subpart~~, the weight loss
 12140 from the polyester resin material (percent by weight) during
 12141 molding;
 12142
 12143 iii) For each polyester resin material which is vapor suppressed
 12144 ~~so as~~ to comply with Section 218.666(a)(1)(C) ~~of this~~
 12145 ~~Subpart~~, the type and content (percent by weight) of
 12146 catalyst in the materials, the maximum process temperature
 12147 for resin application, the maximum gel time, and the weight
 12148 loss (grams per square meter exposed surface) during
 12149 molding; and
 12150
 12151 iv) For each polyester resin material which is approved by the
 12152 Agency and ~~the~~ USEPA in a federally enforceable permit
 12153 or as a SIP revision ~~so as~~ to comply with Section
 12154 218.666(a)(1)(D) ~~of this Subpart~~, information showing the
 12155 VOM emissions level which is achieved and the VOM
 12156 emissions which would result from compliance with
 12157 Section 218.666(a)(1)(A), (B), or (C).
 12158
 12159 D) A description of the testing which was performed, in
 12160 compliance ~~accordance~~ with Section 218.668 ~~of this Part~~, to
 12161 determine the monomer content of polyester resin materials and
 12162 the information in subsections (a)(1)(C)(ii), (iii), and (iv) and
 12163 (a)(1)(D) ~~above~~, including data, calculations, and descriptions and
 12164 results of the sampling and analysis that the owner or operator has
 12165 relied upon to show compliance with Sections 218.666(a)(1) and
 12166 (2) ~~of this Subpart~~;
 12167
 12168 E) For spraying operations, the equipment for spraying polyester resin
 12169 materials and the equipment for touch up and repair;
 12170
 12171 F) The method by which the owner or operator will create and
 12172 maintain records required in subsections (b)(2) and (b)(3) ~~below~~;
 12173 and
 12174
 12175 G) An example of the format in which the records required in
 12176 subsections (b)(2) and (b)(3) ~~below~~ will be kept.
 12177
 12178 2) On and after an applicable ~~a~~ date under ~~consistent with~~ Section 218.106 ~~of~~
 12179 ~~this Part~~ or on and after initial start-up date, the owner or operator of a
 12180 subject process must ~~shall~~ collect and record the following information to

maintain a complete record of all polyester resin materials which are used by such polyester resin products manufacturing process. This information ~~must~~shall be maintained at the source for ~~a period of~~ three years:

- A) The name and identification number of each polyester resin material used in the process;
- B) The particular operating requirement with which each polyester resin material will comply, the actual monomer content of the material (percent by weight), and other relevant data to show compliance with the operating requirement, including:
 - i) For each polyester resin material which is classified as a material used for products requiring corrosion resistant or ~~fire-retardant~~fire-retardant materials, a material used for products requiring tensile strength of 10,000 psi or more, or a clear gel coat, justification for ~~the~~such classification if the material is applied to comply with the monomer content limitation of Section 218.666(a)(1)(A)(i), (ii), or (iii), respectively, ~~of this Subpart~~;
 - ii) For each polyester resin material which is applied in a closed-mold or pultrusion system ~~so as~~ to comply with Section 218.666(a)(1)(B) ~~of this Subpart~~, the weight loss from the polyester resin material (percent by weight) during molding;
 - iii) For each polyester resin material which is vapor suppressed ~~so as~~ to comply with Section 218.666(a)(1)(C) ~~of this Subpart~~, the type and content (percent by weight) of catalyst in the material, the maximum process temperature for resin application, the maximum gel time, and the weight loss (grams per square meter exposed surface) during molding; and
 - iv) For each polyester resin material which is approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision ~~so as~~ to comply with Section 218.666(a)(1)(D) ~~of this Subpart~~, information showing the VOM emission level which is achieved and the VOM emissions which would result from compliance with Section 218.666(a)(1)(A), (B), or (C) ~~of this Subpart~~;

- 12224 C) A description of the testing which was performed, in
 12225 ~~compliance~~ ~~accordance~~ with Section 218.668 ~~of this Part~~, to
 12226 determine the monomer content of polyester resin materials and
 12227 the information in subsections (a)(1)(C)(ii), (iii), and (iv) and
 12228 (a)(1)(D) ~~above~~, including data, calculations, and descriptions and
 12229 results of the sampling and analysis that the owner or operator has
 12230 relied upon to show compliance with Section 218.666(a)(1) ~~of this~~
 12231 ~~Subpart~~;
- 12232 D) The processes and applications for which each polyester resin
 12233 material may be used in compliance with applicable operating
 12234 requirements, including:
- 12235 i) For each polyester resin material which is classified as a
 12236 material used for products requiring corrosion resistant or
 12237 ~~fire-retardant~~ ~~fire-retardant~~ material or a material used for
 12238 products requiring tensile strength of 10,000 psi or more
 12239 which is applied to comply with the monomer content
 12240 limitation of Section 218.666(a)(1)(A)(i) or (ii),
 12241 respectively, ~~of this Subpart~~, the required products or
 12242 circumstances for the materials' use;
- 12243 ii) For each polyester resin material which is applied in a
 12244 closed-mold or pultrusion system ~~so as~~ to comply with
 12245 Section 218.666(a)(1)(B) ~~of this Subpart~~, the required
 12246 process temperature and minimum mold cycle time or
 12247 maximum pultrusion speed;
- 12248 iii) For each polyester resin material which is vapor suppressed
 12249 ~~so as~~ to comply with Section 218.666(a)(1)(C) ~~of this~~
 12250 ~~Subpart~~, the required thickness of the manufactured
 12251 product, the type and amount of catalyst in the resin, and
 12252 the maximum process temperature and maximum gel time;
 12253 and
- 12254 iv) For each polyester resin material which is approved by the
 12255 Agency and approved by ~~the~~ USEPA as a SIP revision ~~so~~
 12256 ~~as~~ to comply with Section 218.666(a)(1)(D) ~~of this Subpart~~,
 12257 the required process operating conditions or product
 12258 specifications; and
- 12259 E) For each polyester resin material which is applied in a spraying
 12260 operation, the type of spray equipment with which the material will
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be applied ~~so as~~ to comply with Section 218.666(a)(2) ~~of this Subpart.~~

- 3) On and after ~~an applicable~~ the date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject process ~~must~~ ~~shall~~ collect and record all of the following information each day for each process and maintain the information at the source for ~~a period of~~ three years:

- A) The name, identification number, and amount of each polyester resin material applied on each process; and
- B) The specific data ~~under~~ ~~identified pursuant to~~ Section 218.672(a)(2)(D) ~~of this Subpart~~ to confirm that the polyester resin material was applied in ~~such~~ a manner ~~to comply that it complied~~ with the applicable operating requirement.

- 4) On and after ~~an applicable~~ a date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject process ~~must~~ ~~shall~~ notify the Agency:

- A) Of any violation of the operating requirements of this Subpart by sending a copy of ~~the~~ ~~such~~ record to the Agency within 30 days ~~after following the occurrence of~~ the violation; and
- B) At least 30 calendar days before changing the method of compliance with this Subpart from ~~one operating requirement among~~ Section 218.666(a)(1)(A), (B), (C), or (D) ~~of this Subpart~~ to another operating requirement, of compliance with all requirements of subsection (a)(1) ~~above~~. Upon changing the method of compliance with this Subpart from one operating requirement to another, the owner or operator ~~must~~ ~~shall~~ comply with all applicable requirements of subsection (a) ~~above~~.

- b) Any owner or operator of a polyester resin product manufacturing process subject to ~~the requirements of~~ Subpart CC ~~must~~ ~~of this Part shall~~ comply with the following:

- 1) On ~~an applicable~~ a date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~ or upon initial start-up of a new source, the owner or operator of the source ~~must~~ ~~shall~~ certify to the Agency that the source will be in compliance with Sections 218.666(b) and (d) ~~of this Subpart~~ on and after ~~an applicable~~ a date ~~under~~ ~~consistent with~~ Section 218.106 ~~of this Part~~, or

on or after the initial start-up date. ~~The~~Such certification must~~shall~~ include:

- A) A description of the handling practices for polyester resin material, cleaning materials which contain VOM, and waste materials which contain VOM, including the use of closed containers and a statement that these practices effectively control VOM emissions to the atmosphere; and
- B) The usage on a daily basis of each cleanup material which contains VOM, the VOM content per liter of each ~~such~~ material, and whether a reclamation system is required by Section 218.666(d) ~~of this Subpart~~ for ~~the~~such material or will be used; a description of the solvent recovery practices if recovery is required or will be used; and a statement that, where a solvent recovery system is required and will be at the source, ~~that~~ the waste residue contains 20% or less VOM by weight.

2) On and after an applicable date ~~under~~consistent with Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of the process must~~shall~~ collect and record all the following information and maintain the information at the source for ~~a period of~~ three years:

- A) The date, time, and duration of scheduled inspections performed to confirm the proper use of closed containers to control VOM emissions, and any instances of improper use of closed containers, with descriptions of actual practice and corrective action taken, if any;
- B) Information on a daily basis confirming the proper use of a recovery system if one is required or is used, including operation of a recovery system at the source to produce a waste residue that is 20% or less VOM by weight and information identifying any observation of noncompliance; and
- C) Information on a daily basis on the use of cleaning materials which contain more than 200 grams of VOM per liter (1.7 pound per gallon) if a recovery system is not required or is not used. This information must~~shall~~ include the name, identification number, amount used, and VOM content of each ~~such~~ cleaning material.

3) On and after an applicable date ~~under~~consistent with Section 218.106 ~~of this Part~~, the owner or operator of a subject process must~~shall~~ notify the

Agency:

- A) Of a violation of ~~the requirements of~~ this Subpart with respect to handling practices and solvent recovery for cleaning materials by sending a copy of all such records to the Agency within 30 days ~~after following~~ the calendar quarter in which ~~the such~~ violation occurred; or
- B) Within 30 calendar days ~~after of~~ changing the handling practices for polyester resin materials, cleaning materials, and waste materials or changing source practice with respect to a solvent recovery system for cleaning materials, describing the change.
- c) Any owner or operator of a polyester resin product manufacturing process subject to ~~the requirements of~~ this Subpart that formulates polyester resin material at the source ~~must shall~~ comply with the following:
- 1) On ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or upon initial start-up of a new emission unit, the owner or operator of the source ~~must shall~~ certify to the Agency that the emission unit will be in compliance with Section 218.666(c) ~~of this Subpart~~ on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date. ~~The Such~~ certification ~~must shall~~ include:
- A) A description of the equipment used for formulation of polyester resin materials, including the types of tanks, vats, and vessels and their size and the types of mixers and the covers associated with this equipment; and
- B) A description of the practices used to minimize VOM emissions to the atmosphere from formulation activity, including the use and maintenance of covers on tanks, vats, and vessels and drainage of mixers.
- 2) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of the process ~~must shall~~ collect and record all the following information and maintain the information at the source for ~~a period of~~ three years:
- A) The date, time, and duration of scheduled inspections to confirm the proper use and maintenance of covers on vats, vessels, and tanks and proper drainage of mixers and any instance of improper use, with description of actual practice and corrective action taken,

if any; and

B) A maintenance log for covers on vats, vessels, and tanks, detailing all routine and non-routine maintenance performed and initial use of new covers, including dates of such activities.

3) On and after an applicable date undereonsistent with Section 218.106 of this Part, the owner or operator of a subject process mustshall notify the Agency:

A) Of a violation of the requirements of this Subpart with respect to formulatingformulation of polyester resin material by sending a copy of all such records to the Agency within 30 days afterfollowing the calendar quarter in which thesueh violation occurred; or

B) Within 30 calendar days afterof changing the handling practices for formulatingformulation of polyester resin materials, describing the change.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART DD: AEROSOL CAN FILLING

Section 218.680 Applicability

a) Potential to emit:

1) A source is subject to this Subpart if it is not subject to the requirements of Subparts PP, QQ, RR, and TT and has the potential to emit at least 22.7 Mg (25 tons) or more of VOM per year, in aggregate, from emission units that are:

A) Not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB of this Subpart; or

B) Not includedincluding in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL volatile organic liquid storage tanks, and

~~clean-up~~~~clean-up~~ solvent operations.

- 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above~~, the requirements of this Subpart ~~shall~~ apply to a source's aerosol can filling lines and propellant booster pumps, which are not regulated by or addressed by Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, ~~or CC of this Subpart~~.
- b) If a source ceases to meet the criteria of subsection (a), ~~the requirements of~~ this Subpart ~~continues shall continue~~ to apply to an aerosol can filling line and propellant booster pump which was subject to the control requirements of Section 218.686 ~~of this Part~~.
- c) For ~~the purposes of~~ this Subpart, an emission unit ~~must shall~~ be considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.686 Control Requirements

- a) Every owner or operator of an aerosol can filling line that is filling cans with a propellant which contains propane, butane, or other VOM subject to this Subpart ~~must shall~~ comply with the following requirements:
 - 1) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emission of at least 81% from the propellant filling area, also known as the gas house, on each line; or
 - 2) As an alternative to compliance with subsection (a)(1) ~~of this Subpart~~, the owner or operator of an aerosol can filling line ~~must shall~~ comply with the following requirements:
 - A) Fill all cans, other than trial runs of cans to verify product quality, using through-the-valve fill or enhanced under-the-cup fill to minimize loss of VOM propellant; ~~or~~ use a reclamation system to recover surplus VOM propellant; or use another system approved in a federally enforceable permit which achieves at least 75% reduction of the emissions of under-the-cup fill;
 - B) Fill on a monthly basis at least 90% of cans filled on ~~thesueh~~

aerosol can filling lines that are capable of being filled by the through-the-valve method with through-the-valve fill. All cans ~~must~~shall be considered capable of being filled by the through-the-valve method unless, as demonstrated by the records required by Section 218.692(b)(2)-~~of this Part~~, the valve assembly is not adaptable to the through-the-valve fill; through-the-valve fill cannot be accomplished with at least 85% of the under-the-cup operating rate in cans per minute of filling; or performance, ~~i.e. that~~ is the discharge of the can's contents to accomplish its intended function, is negatively affected by through-the-valve fill when considering factors such as propellant solubility in the can's contents and the amount of turbulence which the contents may experience during propellant filling; and

- C) Verify proper filling of cans with a VOM monitoring system in the gas house. This system may monitor VOM concentration as a percentage of the lower explosive limit.

- b) Every owner or operator of a propellant booster pump associated with an aerosol can filling line subject to this Subpart ~~must~~shall comply with one of the following requirements:

- 1) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emission of at least 81% from each pump. If the pumps are located in the gas house of a filling line, compliance with this reduction may be achieved by the combination of the pumps located in the gas house and the propellant filling area; or
- 2) Work practices to prevent leaks from a pump, meaning a loss of VOM from the pump above background levels. Work practices ~~must~~shall include changing seals every four ~~(4)~~ weeks and plungers every 16 weeks unless a pump monitoring procedure approved in a federally enforceable permit establishes otherwise.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.688 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance or verify effectiveness with Section 218.686-~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at its own expense, conduct ~~thesuch~~ tests in compliance~~accordance~~ with the applicable test methods and procedures ~~specified~~

in Section 218.105 ~~of this Part~~.

- b) Nothing in this Section ~~limits~~~~shall limit~~ the authority of the USEPA ~~underpursuant to~~ the ~~CAA Clean Air Act~~, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.690 Recordkeeping and Reporting for Exempt Emission Units

Upon request by the Agency, the owner or operator of an aerosol can filling line or propellant booster pump which is exempt from ~~the requirements of~~ Subpart DD ~~must of this Part shall~~ submit to the Agency records documenting that the aerosol can filling line or propellant booster pump is exempt from those requirements. These records ~~must~~~~shall~~ be submitted within 30 calendar days ~~after from~~ the date of the request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.692 Recordkeeping and Reporting for Subject Emission Units

- a) Any owner or operator of an aerosol can filling line or propellant booster pump which is subject to ~~the requirements of~~ Subpart DD ~~of this Part~~ and complying by ~~using means of the use of~~ emission capture and control equipment ~~must~~~~shall~~ comply with the following:

- 1) By ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of an aerosol can filling line or propellant booster pump, the owner or operator of the subject line or pump ~~must~~~~shall~~ demonstrate to the Agency that the subject line or pump will be in compliance on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.
- 2) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject line or pump ~~must~~~~shall~~ collect and record all of the following information each day and maintain the information at the source for ~~a period of~~ three years:
 - A) Control device monitoring data;
 - B) A log of operating time for the capture system, control device,

monitoring equipment, and the associated lines and pumps; and

- C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

- 3) On and after an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject line or pump mustshall notify the Agency:

- A) Of a violation of ~~the requirements of~~ Subpart DD ~~of this Part~~ by sending a copy of any records showing the violation to the Agency within 30 days ~~after following the occurrence of~~ the violation; and

- B) At least 30 calendar days before changing the method of compliance with Subpart DD ~~of this Part~~ from using the use of capture systems and control devices to methods of filling cans, including use of a reclamation system or pump work practice, the owner or operator mustshall comply with ~~the requirements of~~ subsections (b)(1) or (c)(1) ~~below~~, respectively. Upon changing the method of compliance with Subpart DD ~~of this Part~~ from using the use of capture systems and control devices to compliance with the methods of filling cans or work practices, the owner or operator mustshall comply with ~~all requirements of~~ subsections (b) or (c) ~~below~~, respectively.

- b) Any owner or operator of an aerosol can filling line which is subject to ~~the requirements of~~ Subpart DD ~~of this Part~~ and complying by using means of the methods of filling cans, including using use of a reclamation system, mustshall comply with the following:

- 1) By an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a line subject to Subpart DD ~~of this Part~~, the owner or operator of the subject line mustshall certify to the Agency that the line will be in compliance on and after an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~The Such~~ certification mustshall include:

- A) The name and identification number of each line which will comply by means of the methods of filling cans;

- B) The name and manufacturer's description of the can filling system;

- C) Calculations and other data to demonstrate the propellant losses with these systems, including a description and results of any test the owner or operator has performed;
- D) Technical and production data, along with calculations to demonstrate that the required percentage of cans capable of being filled ~~using by means of~~ through-the-valve fill will be filled using through-the-valve fill;
- E) For a reclamation system, the parameters which will be monitored to demonstrate proper system operation, with justification;
- F) For a system approved in a federally enforceable permit, identification of ~~the such~~ permit; and
- G) An example of the records which will be kept ~~under pursuant to subsections~~ (b)(2) and (b)(3) ~~below~~.

2) On and after ~~an applicable~~ a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of a subject line ~~mustshall~~ collect and record the following information for each type of product that is not filled by the through-the-valve method. Information ~~mustneed~~ be provided ~~pursuant~~ only ~~underto~~ subsections (B), (C), (D), and (E) ~~below~~ to the extent that the information is relied ~~on upon~~ by the owner or operator to demonstrate that a product is not capable of being filled by ~~the~~ through-the-valve method. For this purpose, each formulation in a particular type of can with a particular type of valve assembly ~~mustshall~~ be addressed separately as a unique product, considering the range of models of cans and valve assemblies, e.g., suppliers, sizes, and weights of the type used for such product:

- A) Identifying information for the product type, including identification and description of the cans' contents, type, and model of cans; type and models of valve assembly; and type of propellant and nominal propellant charge;
- B) Whether the valve assembly is able to be through-the-valve filled;
- C) Under-the-cup operating rate and projected through-the-valve fill operating rate;
- D) Information addressing the impact of through-the-valve fill on

performance;

E) Other supporting data; and

F) Whether the product is deemed capable of being filled by the through-the-valve method.

3) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~ or on and after the initial start-up date, the owner or operator of a subject line ~~mustshall~~ collect and record all of the following information each day for each line and maintain the information at the source for ~~a period of~~ three years:

A) Operating data for the line and fill systems;

B) For a reclamation system, system monitoring data; and

C) Number of cans filled which are capable of being filled ~~usingby means of~~ through-the-valve fill, determined in ~~compliance accordance~~ with the records kept ~~underpursuant to~~ subsection (b)(2) ~~above~~ and percentage of ~~thesuch~~ cans actually filled using through-the-valve fill.

4) On and after the ~~applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject line ~~mustshall~~ notify the Agency:

A) Of a violation of ~~the requirements of~~ Subpart DD ~~of this Part~~ by sending a copy of any record showing the violation to the Agency within 30 days ~~afterfollowing~~ the calendar quarter in which the violation occurred;

B) At least 30 calendar days before changing the method of compliance with Subpart DD ~~of this Part~~, from the methods of filling cans to ~~usingthe use of~~ capture systems and control devices, the owner or operator ~~mustshall~~ comply with ~~all requirements of~~ subsection (a)(1) ~~above~~. Upon changing the method of compliance, the owner or operator ~~mustshall~~ comply with ~~all requirements of~~ subsection (a) ~~above~~.

c) Any owner or operator of a propellant booster pump which is subject to ~~the requirements of~~ Subpart DD ~~of this Part~~ and complying by ~~usingmeans of~~ work practices ~~must, shall~~ comply with the following:

- 1) By an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a pump subject to Subpart DD ~~of this Part~~, the owner or operator of the subject pump mustshall certify to the Agency that the pump will be in compliance on and after an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~TheSuch~~ certification mustshall include:
 - A) The name and identification number of each pump which will comply by means of work practices;
 - B) The work practices which will be followed for the pump, including the means which will be used to determine whether the pump is leaking indicated by, that is, experiencing loss of VOM compared to background levels;
 - C) For work practices approved in a federally enforceable permit, identification of ~~thesuch~~ permit; and
 - D) An example of the records which will be kept underpursuant to subsection (c)(2) ~~below~~.
- 2) On and after an applicable~~the~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject pump mustshall collect and record all of the following information each day for each pump and maintain the information at the source for ~~a period of~~ three years:
 - A) Operating data for each pump, including date and time a leak in a pump is detected, date and time a leaking pump is removed from service, and action taken to repair a pump; and
 - B) A maintenance log for the pump, detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
- 3) On and after an applicable date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject pump mustshall notify the Agency:
 - A) Of a violation of ~~the requirements of~~ Subpart DD ~~of this Part~~ by sending a copy of any record showing the violation to the Agency within 30 days afterfollowing the occurrence of the violation;

- B) At least 30 calendar days before changing the method of compliance with Subpart DD ~~of this Part~~ from work practices to ~~using~~ use of emission capture and control equipment, the owner or operator ~~must~~ shall submit a revised certification ~~under~~ pursuant to subsection (a)(1) ~~above~~. Upon changing the method of compliance with Subpart DD ~~of this Part~~, the owner or operator ~~must~~ shall comply with ~~all applicable requirements of~~ subsection (a) ~~above~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART GG: MARINE TERMINALS

Section 218.760 Applicability

- a) ~~This~~ ~~The requirements of this~~ Subpart ~~applies~~ shall apply to sources that load or who are permitted to load gasoline or crude oil.
- b) ~~This~~ ~~The requirements of this~~ Subpart ~~does~~ shall not apply to the following activities:
- 1) Loading of liquids associated with the fueling of marine vessels; or
 - 2) ~~Transferring~~ ~~The transfer of~~ liquids from one marine vessel to another marine vessel.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.762 Control Requirements

- a) Except as provided at subsection (c) ~~of this Section~~, every owner or operator of a marine terminal subject to ~~the requirements of~~ this Subpart ~~must~~ shall equip each terminal with a vapor collection and control system that:
- 1) Captures the vapors displaced during the loading event and reduces overall VOM emissions by at least 95% by weight through ~~using~~ ~~the use of~~ either a vapor combustion system or a vapor recovery system;
 - 2) Is maintained and operated so that it prevents visible liquid leaks, significant odors, and visible fumes in the liquid transfer and the vapor collection lines; and appurtenances during loading; and
 - 3) Has been certified as required by Coast Guard regulations ~~found~~ at 33

CFR 154.

- b) During the regulatory control period of~~From~~ May 1 to September 15, ~~the regulatory control period,~~ every owner or operator of a marine terminal subject to ~~the requirements of this Subpart~~ mustshall load gasoline or crude oil only into marine vessels that are:
- 1) Equipped with vapor collection equipment that has been certified as required by Coast Guard regulations ~~found~~ at 46 CFR 39;
 - 2) Connected to the vapor collection system; and
 - 3) Vapor-tight as described in ~~the following~~ subsections (b)(3)(A), (b)(3)(B), (b)(3)(C), or (b)(3)(D) ~~of this Section~~:
 - A) The owner or operator of the marine terminal mustshall load each marine vessel with a vacuum assisted vapor collection system, instrumented ~~so in such a way~~ that the pump(s) transferring gasoline or crude oil to the marine vessel will not operate unless the vapor collection system is properly connected and properly operating.
 - B) As an alternative to subsection (b)(3)(A) ~~of this Section~~, the owner or operator of the marine terminal mustshall obtain documentation ~~under as described in~~ Section 218.770(b) ~~of this Subpart~~ that the marine vessel has been vapor-tightness tested within either the preceding 12 months or the preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR 31.10-17, using Method 21 of 40 CFR 60. Appendix A-7~~Part 60, Appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~, as described in Section 218.768(b) ~~of this Subpart~~.
 - C) If there is no documentation of a successful leak test conducted on the marine vessel in either the preceding 12 months or ~~in~~ the preceding 14 months, if the test is being conducted as part of the Coast Guard's reinspection of the vessel required under 46 CFR 31.10-17, the owner or operator of the marine terminal mustshall require that a leak test of the marine vessel be conducted during the final ~~20%20 percent~~ of loading of the marine vessel or mustshall not load the vessel. The test mustshall be conducted when the marine vessel is being loaded at the maximum liquid transfer rate for that transfer operation. The owner or operator of the marine

terminal ~~must~~shall require that the documentation ~~underdescribed in~~ Section 218.770(b) ~~of this Subpart~~ is completed ~~before~~prior to the departure of the vessel.

- D) If the marine vessel has failed its most recent vapor-tightness leak test at the marine terminal, before the marine vessel can be loaded, the owner or operator of the marine terminal ~~must~~shall require that the owner or operator of the marine vessel provide documentation that the leaks detected during the previous vapor-tightness leak test have been repaired and that the marine vessel has been vapor-tightness tested since the leak(s) has been repaired ~~under~~pursuant to subsection (b)(3)(B) ~~of this Section~~.
- c) As an alternative to the control requirements of subsections (a) and (b) ~~of this Section~~, an owner or operator of a marine terminal subject to the control requirements of this Subpart may comply by showing:
- 1) Operation of a vapor collection and control system ~~to load~~for the loading of gasoline or crude oil from marine vessels in ~~compliance~~accordance with the regulations adopted by ~~the~~ USEPA ~~under~~pursuant to Sections 112(d) or 183(f) of the CAA;
 - 2) Reduction of VOM emissions equivalent to the levels in Appendix E ~~of this Part~~ through a federally enforceable emission reduction plan; or
 - 3) An alternate procedure ~~to those described that has been~~ approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.
- d) Nothing in this Subpart ~~supersedes~~shall supersede any U.S. Coast Guard regulation that is more stringent than ~~that contained in~~ this Subpart.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.764 Compliance Certification

By May 1, 1996, ~~or~~ upon initial startup, or upon change in method of compliance, the owner or operator of a source subject to ~~the requirements of~~ this Subpart must certify compliance with ~~the requirements of~~ this Subpart by submitting to the Agency the following:

- a) If complying with Sections 218.762(a) and (b), or (c)(1), or (c)(3) ~~of this Subpart~~:
- 1) The type of vapor collection and control system ~~used~~utilized;

- 2) The date the system was installed;
 - 3) A demonstration that the vapor collection and control system achieves an overall efficiency of 95%;
 - 4) A copy of the U.S. Coast Guard certification required under 33 CFR 154; and
 - 5) The location (including the contact person's name, address, and telephone number) of the records required by Section 218.770 ~~of this Subpart~~.
- b) If complying with Section 218.762(c)(2) ~~of this Subpart~~, a federally enforceable emission reduction plan.
 - c) If not loading during the 1996 regulatory control period or the 1996 and 1997 regulatory control periods, a statement that the source will not be loading gasoline or crude oil, the regulatory control period affected, and a date certain when the requirements of subsection (a) ~~above~~ will be met. Further, if the owner or operator is also required to comply with the control requirements for marine vessel loading adopted ~~underpursuant to~~ Section 112(d) or Section 183(f) of the CAA, then the ~~above~~ statement of not loading may extend to subsequent regulatory control periods until ~~installing and operating~~ installment and operation of the control equipment is required under Section 112(d) or Section 183(f) of the CAA.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.766 Leaks

The owner or operator of a marine terminal ~~must~~shall comply with ~~the requirements of~~ Section 218.445 ~~of this Part~~ with respect to all equipment associated with the vapor collection and control system required by Section 218.762(a) ~~of this Subpart~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.768 Testing and Monitoring

- a) Compliance with Section 218.762(a)(2) ~~must of this Subpart shall~~ be determined by visual inspection and ~~by~~ the leak detection methods ~~contained~~ in Section 218.105(g) ~~of this Part~~.
- b) If the control device used to comply with Section 218.762(a)(1) ~~of this Subpart~~ is a flare, compliance ~~must~~shall be determined by methods ~~described~~ in Section

218.429(c)-of this Part.

- c) For all other control devices used to comply with Section 218.762(a)(1)-of this Subpart, compliance mustshall be determined by methods-described in Section 218.105(d) and (f)-of this Part.
- d) Compliance with Section 218.762(b)(3) must-of this Subpart shall be determined by one of the methods ~~described~~ in this Section:
 - 1) A marine vessel loaded in complianceaceordance with Section 218.762(b)(3)(A) usingof this Subpart through the use of a vacuum assisted vapor collection system is assumed to be vapor-tight for the purposes of this Subpart.
 - 2) A vapor-tightness test for marine vessels mustshall be conducted to include the final 20%20 percent of loading of each product tank of the marine vessel, and it mustshall be applied to any potential sources of vapor leaks on the vessel underpursuant to Method 21 of 40 CFR 60.Appendix A-760, Appendix A, incorporated by reference at Section 218.112-of this Part. A reading of 10,000 ppmv or greater as methane constitutesshall-constitute a leak.
 - 3) As an alternative to subsection (d)(2)-of this Section, an owner or operator of a marine terminal may use the vapor-tightness test ~~described~~ in 40 CFR 61.304(f), incorporated by reference at Section 218.112-of this Part.
- e) When in the opinion of the Agency or USEPA it is necessary to conduct testing to demonstrate compliance with or verify effectiveness of the vapor collection and control system required by Section 218.762(a), (c)(1), or (c)(3)-of this Subpart, the owner or operator of a marine terminal mustshall, at its own expense, conduct thesueh tests in complianceaceordance with the applicable test methods and procedures ~~specified~~ in subsections (a), (b), or (c)-of this Section, as applicable.
- f) An owner or operator of a marine terminal planning to conduct a VOM emissions test to demonstrate compliance with Sections 218.762(a), (c)(1), or (c)(3) mustof this Subpart shall notify the Agency of that intent at leastnot less than 30 days before the planned initiation of the tests so that the Agency may observe the test.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.770 Recordkeeping and Reporting

- a) The owner or operator of sources complying with Sections 218.762(a)219.762(a)

and (b), or (c)(1), or (c)(3) ~~must of this Subpart shall~~ maintain records regarding the marine terminal; and each time a marine vessel is loaded during the regulatory control period. The records ~~must shall~~ include ~~but are not limited to~~:

- 1) ~~Each date~~The date(s) and ~~time~~the time(s) at which the marine vessel was loaded from the marine terminal;
 - 2) The name, type, identification number, and owner of the vessel loaded;
 - 3) The type and amount of liquid loaded into the marine vessel;
 - 4) Records of any leaks found, repair attempts, and the results of the required fugitive monitoring and maintenance program, including appropriate dates, test methods, instrument readings, repair results, and corrective action taken as required by Sections 218.762(a)(2) and 218.766 ~~of this Subpart~~;
 - 5) A copy of the Coast Guard certification demonstrating that the marine terminal's vapor collection and control system has been certified as required by Coast Guard regulations ~~found~~ at 33 CFR 154; and
 - 6) A copy of the Coast Guard certification demonstrating that the marine vessel has been inspected and certified as required by Coast Guard regulations ~~found~~ at 46 CFR 39. If a copy of the Coast Guard certificate is not available at the time of loading, then the date that the marine vessel was last inspected and the authorization that the marine vessel has functioning vapor control equipment must be recorded from the certificate. ~~A Further,~~ a copy of the certificate must be obtained by the owner or operator of the marine terminal within 21 days after the loading event.
- b) Owners or operators complying with Sections 218.762(b)(3)(B), (b)(3)(C), or (b)(3)(D) ~~must also shall additionally~~ maintain the following records concerning the vapor-tightness of the marine vessel:
- 1) Test title;
 - 2) Owner of the marine vessel tested;
 - 3) The identification number of the marine vessel tested;
 - 4) Testing location;
 - 5) Tester name and signature;

- 6) Witnessing inspector, name, signature, and affiliation; and
- 7) Test results.
- c) Owners or operators complying with ~~the requirements of~~ Section 218.762(c)(2) ~~must of this Subpart shall~~ maintain records of daily product volumes loaded to demonstrate that the applicable emission reduction ~~specified~~ in Appendix E ~~of this Part~~ has been achieved.
- d) Owners or operators certifying compliance under Section 218.764(c) ~~must shall~~ maintain the records ~~specified~~ in subsections (a)(1), (a)(2), and (a)(3) ~~above~~.
- e) All records required by subsections (a), (b), (c), and (d) ~~must of this Section shall~~ be maintained for at least three years and ~~must shall~~ be made available to the Agency upon request.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART HH: MOTOR VEHICLE REFINISHING

Section 218.780 Emission Limitations

- a) Except ~~under as provided in~~ Section 218.782 ~~of this Subpart~~, ~~an~~ owner or operator of a motor vehicle refinishing operation ~~must not shall~~ coat motor vehicles, mobile equipment, or their parts and components, unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, ~~excluding minus~~ water and any compounds that are specifically exempted from the definition of VOM. The VOM content limitations are as follows:

		kg/l	(lb/gal)
1)	Pretreatment wash primer	0.78	(6.5)
2)	Precoat	0.66	(5.5)
3)	Primer/primer surfacer coating	0.58	(4.8)
4)	Primer sealer	0.55	(4.6)
5)	Topcoat system or basecoat/clearcoat	0.60	(5.0)

6)	Three or four stage topcoat system	0.63	(5.2)
7)	Specialty coatings	0.84	(7.0)
8)	Anti-glare/safety coating	0.84	(7.0)

- b) All coating ~~must~~shall be used according to manufacturer's specifications. If a coating requires ~~adding the addition of~~ a reducer, hardener, or other additive, in some combination, this addition must not cause the coating, as applied, to exceed the applicable VOM content limitation.
- c) Specialty coatings ~~must not~~shall represent ~~no~~ more than ~~5%5 percent~~, by volume, of all coatings applied at a source on a monthly basis.
- d) The following equations ~~must~~shall be used to calculate the VOM content of topcoat systems:
- 1) The VOM content of basecoat/clearcoat systems ~~must~~shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating, (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), according to the following equation:

$$VOM_{T_{bc/cc}} = (VOM_{bc} + 2 VOM_{cc}) / 3$$

Where:

- $VOM_{T_{bc/cc}}$ = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system;
- VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat; and
- VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating, (~~excluding minus~~ water and any compounds which are specifically exempted

from the definition of VOM), of any given clearcoat.

- 2) The VOM content for a ~~three-stage~~ ~~three-stage~~ coating system ~~must~~shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

$$VOM_{T_{ms}} = (VOM_{bc} + VOM_{mc} + 2 VOM_{cc}) / 4$$

Where:

VOM T_{ms} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoat and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), of any given midcoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

- 3) The VOM content for a ~~four-stage~~ ~~four-stage~~ coating system ~~must~~shall be calculated in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding~~minus water and any compounds which are specifically exempted from the definition of VOM), according to the following formula:

$$VOM_{T_{ms}} = (VOM_{bc} + VOM_{mc1} + VOM_{mc2} + 2 VOM_{cc}) / 5$$

Where:

VOM_{T_{ms}} = The weighted average of the VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), in the basecoat, midcoats and clearcoat system;

VOM_{bc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given basecoat;

VOM_{mc1} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of the first midcoat;

VOM_{mc2} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of the second midcoat; and

VOM_{cc} = The VOM content, as applied, in units of kg VOM/l (lbs VOM/gal) of coating; ~~(excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM), of any given clearcoat.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.782 Alternative Control Requirements

As an alternative to complying with the VOM content limitations in Section 218.780 ~~of this Subpart~~, the owner or operator of a motor vehicle refinishing operation may operate control equipment that reduces VOM emissions at the source by at least 90% under ~~90 percent as provided in either~~ subsection (a) or (b) ~~of this Section~~.

- a) An owner or operator may operate an afterburner or carbon adsorber; or
- b) An owner or operator may use an equivalent alternative control plan, other than an afterburner or carbon adsorber, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.784 Equipment Specifications

Every owner or operator of a motor vehicle refinishing operation, unless the source uses less than 20 gallons of coating per calendar year from all motor vehicle refinishing operations combined, ~~must~~shall:

- a) Coat motor vehicles, mobile equipment, or their parts and components using one of the following coating applicators:
 - 1) Electrostatic spray equipment calibrated, operated, and maintained in ~~compliance~~accordance with the manufacturer's specifications;
 - 2) High Volume Low Pressure (HVLP) spray equipment calibrated, operated, and maintained in ~~compliance~~accordance with the manufacturer's specifications; or
 - 3) An equivalent coating applicator technology that is demonstrated by the manufacturer to achieve transfer efficiency comparable to the HVLP spray equipment technology ~~listed~~in subsection (a)(2) of this Section for a comparable operation, and for which written approval has been obtained from USEPA. The owner or operator must maintain documentation of USEPA's approval at the motor vehicle refinishing operation; and
- b) Clean all coating applicators with a device that:
 - 1) Recirculates solvent during the cleaning process;
 - 2) Collects spent solvent so it is available for disposal or recycling; and
 - 3) Minimizes evaporation of solvents during cleaning, rinsing, draining, and storage.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.786 Surface Preparation Materials

Every owner or operator of a motor vehicle refinishing operation ~~must~~only shall use only surface preparation materials that never exceed the following VOM content limitations for the specified substrate:

		kg/l	(lb/gal)
a)	Plastic parts	0.78	(6.5)

- b) Other substrates 0.17 (1.4)

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.787 Work Practices

- a) Every owner or operator of a motor vehicle refinishing operation ~~must~~ ensure that fresh and spent solvent, cloth or paper used to apply solvents for surface preparation or cleanup, waste paint, and sludge are stored in closed containers.
- b) Every owner or operator of a motor vehicle refinishing operation that is exempt from the equipment specifications in Section 218.784 ~~of this Subpart~~ because it uses less than 20 gallons of coating per year ~~must~~ direct solvent used to clean coating applicator equipment and paint lines into a container for proper disposal or recycling.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.788 Testing

- a) Upon request by the Agency, the owner or operator of a motor vehicle refinishing operation ~~must~~, at its own expense, conduct tests to demonstrate compliance with Sections 218.780, 218.782, or 218.786 ~~of this Subpart~~, in ~~compliance~~ with the applicable test methods and procedures ~~specified~~ in Section 218.105 ~~of this Part~~ and ~~must~~:
- 1) Notify the Agency 30 days ~~before~~ conducting ~~these~~ tests; and
 - 2) Submit all test results to the Agency within 45 days after conducting the ~~requisite~~ tests.
- b) For ~~purposes of~~ this Section, surface preparation materials ~~must~~ be treated as coatings.
- c) Nothing in this Section ~~limits~~ the authority of USEPA ~~under~~ pursuant to the ~~CAA Clean Air Act~~, as amended, to require testing, or ~~affects~~ the authority of USEPA under Section 114 of the ~~CAA Clean Air Act~~ [(42 U.S.C. 7414 (1990))].

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.789 Monitoring and Recordkeeping for Control Devices

- a) Every owner or operator of a motor vehicle refinishing operation that complies with this Subpart ~~underpursuant to~~ Section 218.782 ~~mustof this Subpart shall~~:
- 1) Install and operate equipment to continuously monitor each control device as specified in Section 218.105(d)(2)(A) ~~of this Part~~;
 - 2) Keep records of parameters for control devices as monitored ~~underpursuant to~~ subsection (a)(1) ~~of this Section~~;
 - 3) Keep logs of operating time of the control device and monitoring equipment;
 - 4) Keep logs of maintenance of the control device and monitoring equipment; and
 - 5) Maintain all records required in this Section for the most recent consecutive ~~three-year~~~~three year~~ period and make all such records available to the Agency immediately upon request.
- b) An owner or operator may monitor with an alternative method or monitor other parameters than specified in subsection (a)(1) ~~of this Section~~, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.791 Compliance Date

Every owner or operator of a motor vehicle refinishing operation ~~mustshall~~ comply with ~~the requirements of~~ this Subpart by March 15, 1996, upon modification, or upon initial startup.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

Section 218.890 Applicability

- a) Except ~~underas provided in~~ subsection (b) ~~of this Section~~, on and after May 1, 2012, ~~the requirements of~~ this Subpart ~~applieshall apply~~ to the owners or operators of sources that manufacture hulls or decks of boats from fiberglass, or that build molds to make hulls or decks of boats from fiberglass, and that emit at least 6.8 kg/day (15 lbs/day) ~~or more~~ of VOM, calculated in compliance~~accordance~~ with Section 218.894(a)(1)(B), from open molding resin

b) ~~Despite~~Notwithstanding subsection (a) ~~of this Section, the requirements of this Subpart~~ does~~shall~~ not apply to the following:

- 1) Surface coatings applied to fiberglass boats;
- 2) Industrial adhesives used in the assembly of fiberglass boats. Polyester resin putties used to assemble fiberglass parts are~~shall~~ not ~~be~~ considered industrial adhesives for ~~purposes of~~ this exclusion; or
- 3) Closed molding operations.

c) If a source is or becomes subject to at least one ~~or more~~ of the limitations in this Subpart, the source is always subject to the applicable provisions of this Subpart.

d) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in this Section is subject to the recordkeeping and reporting requirements specified in Section 218.894(a) ~~of this Subpart~~.

Section 218.891 Emission Limitations and Control Requirements

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b) VOM Content Limitations

- 1) Except ~~underas provided in~~ subsection (e) ~~of this Section~~, the monomer VOM content of a subject resin or gel coat ~~must~~ ~~shall~~ not exceed the following limitations:

	Weighted average monomer VOM content (weight percent)
A) Production resin	
i) Atomized spray	28
ii) Non-atomized	35
B) Pigmented gel coat	33
C) Clear gel coat	48
D) Tooling resin	
i) Atomized	30
ii) Non-atomized	39
E) Tooling gel coat	40

- 2) Except ~~underas provided in~~ subsection (e) ~~of this Section~~, the weighted average monomer VOM content of a subject resin or gel coat ~~must~~ ~~shall~~ not exceed the applicable limitation ~~set forth~~ in subsection (b)(1) ~~of this Section~~ on a 12-month rolling average basis. Equation 1 ~~must~~ ~~below shall~~ be used to determine the weighted average monomer VOM content for resin and gel coat materials.

Equation 1:

$$\text{Weighted Average Monomer VOM Content} = \frac{\sum_{i=1}^n M_i \text{VOM}_i}{\sum_{i=1}^n M_i}$$

where:

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in ~~Mg~~ megagrams;

VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation;

n = Number of different open molding resins or gel coats used in the past 12 months in an operation.

- c) Emissions Averaging Alternative. The owner or operator of a source subject to ~~the requirements of~~ this Subpart may elect to include some or all of the subject resin and gel coat operations at the source in the emissions averaging alternative. Resin and gel coat operations ~~using~~ utilizing the emissions averaging alternative ~~must~~ shall comply with a source-specific monomer VOM mass emission limit on a 12-month rolling average basis, calculated at the end of each calendar month. All subject resin and gel coat operations that do not ~~use~~ utilize the emissions averaging alternative ~~must~~ shall comply with ~~the requirements in~~ subsection (b) or (d) ~~and of this Section, as well as with~~ all other applicable requirements in this Section.

- 1) The owner or operator of a source subject to this subsection (c) ~~must~~ shall use Equation 2 to determine the source-specific monomer VOM mass emission limit for resin and gel coats included in the emissions average:

Equation 2:

$$\text{Monomer VOM Limit} = 46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})$$

where:

Monomer VOM Limit = Total allowable monomer VOM that can be emitted from the open molding operations included in the average, expressed in ~~kg~~ kilograms per 12-month period;

M_R = Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams~~ (Mg);

M_{PG} = Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{CG} = Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TR} = Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TG} = Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg.

The numerical coefficients associated with each term on the right-hand side of Equation 2 are the allowable monomer VOM emission rates for that particular material in units of kg VOM/Mg of material used.

- 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, the owner or operator of a source subject to this subsection (c) must use Equation 3 to calculate the monomer VOM emissions from the resin and gel coat operations included in the emissions average. The monomer VOM emissions calculated using Equation 3 must not exceed the monomer VOM limit calculated using Equation 2.

Equation 3:

$$\begin{aligned} \text{Monomer VOM Emissions} &= (PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + \\ &\quad (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG}) \end{aligned}$$

where:

Monomer VOM Emissions = Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in kilograms;

PV_R = Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed

in kg/Mg, calculated in ~~compliance~~accordance with Equation 4 in subsection (c)(3);

M_R = Mass of production resin used in the past 12 months, expressed in Mg;

PV_{PG} = Weighted-average monomer VOM emission rate for pigmented gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~pursuant to Equation 4;

M_{PG} = Mass of pigmented gel coat used in the past 12 months, expressed in Mg;

PV_{CG} = Weighted-average monomer VOM emission rate for clear gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~pursuant to Equation 4;

M_{CG} = Mass of clear gel coat used in the past 12 months, expressed in Mg;

PV_{TR} = Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in kg/Mg, calculated ~~under~~pursuant to Equation 4;

M_{TR} = Mass of tooling resin used in the past 12 months, expressed in Mg;

PV_{TG} = Weighted-average monomer VOM emission rate for tooling gel coat used in the past 12 months, expressed in kg/Mg, calculated ~~under~~pursuant to Equation 4;

M_{TG} = Mass of tooling gel coat used in the past 12 months, expressed in Mg.

- 3) For ~~purposes of~~ Equation 3, the owner or operator of a source subject to this subsection (c) ~~must~~shall use Equation 4 to calculate the weighted-average monomer VOM emission rate for the previous 12 months for each resin and gel coat operation included in the emissions average, except ~~under as provided in~~ subsection (e) ~~of this Section~~.

Equation 4:

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$$PV_{OP} = \frac{\sum_{i=1}^n M_i PV_i}{\sum_{i=1}^n M_i}$$

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where:

PV_{OP} = Weighted-average monomer VOM emission rate for each open molding operation (PV_R, PV_{PG}, PV_{CG}, PV_{TR}, and PV_{TG}) included in the average, expressed in kg of monomer VOM per Mg of material applied;

M_i = Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in Mg;

n = Number of different open molding resins and gel coats used within an operation in the past 12 months;

PV_i = The monomer VOM emission rate for resin or gel coat (i) used within an operation in the past 12 months, expressed in kg of monomer VOM per Mg of material applied. The monomer VOM emission rate formulas in subsection (c)(4) ~~must of this Section shall~~ be used to compute PV_i. If a source includes filled resins in the emissions average, the source ~~mustshall~~ use the value of PV_F, calculated using Equation 5 in subsection (e)(3) ~~of this Section~~, as the value of PV_i for those resins;

i = Subscript denoting a specific open molding resin or gel coat applied.

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- 4) For ~~purposes of~~ Equation 4 and subsection (e)(3) ~~of this Section~~, the following monomer VOM emission rate formulas ~~mustshall~~ apply. ~~TheseSuch~~ formulas calculate monomer VOM emission rates in terms of kg of monomer VOM per Mg of resin or gel coat applied. "VOM%" means the monomer VOM content as supplied, expressed as a weight percent value between ~~0% and 100%0 and 100 percent~~.

A) Production resin, tooling resin:

- i) Atomized: $0.014 \times (\text{Resin VOM}\%)^{2.425}$

- ii) Atomized, plus vacuum bagging with roll-out: $0.01185 \times (\text{Resin VOM}\%)^{2.425}$
 - iii) Atomized, plus vacuum bagging without roll-out: $0.00945 \times (\text{Resin VOM}\%)^{2.425}$
 - iv) Nonatomized: $0.014 \times (\text{Resin VOM}\%)^{2.275}$
 - v) Nonatomized, plus vacuum bagging with roll-out: $0.0110 \times (\text{Resin VOM}\%)^{2.275}$
 - vi) Nonatomized, plus vacuum bagging without roll-out: $0.0076 \times (\text{Resin VOM}\%)^{2.275}$
- B) Pigmented gel coat, clear gel coat, tooling gel coat: $0.445 \times (\text{Gel Coat VOM}\%)^{1.675}$

- d) Capture System and Control Device Requirements. ~~An~~No owner or operator of a source subject to ~~the requirements of~~ this Subpart that is using~~utilizing~~ a capture system and control device for a subject resin or gel coat operation must not~~shall~~ conduct that operation unless the following requirements are satisfied:
- 1) An afterburner or carbon adsorber is installed and operated that meets the limitations ~~set forth~~ in this subsection (d). The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if that device complies with all limitations in this subsection (d), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device, and the plan is approved by the Agency and approved by USEPA as a SIP revision;
 - 2) The VOM emissions at the outlet of the control device meet an emissions limitation determined using Equation 2 in subsection (c)(1) ~~of this Section~~. In Equation 2, however, instead of using the mass of each material used over the past 12 months to determine the emission limitation, the owner or operator must~~shall~~ use the mass of each material used during the applicable control device performance test; and
 - 3) The owner or operator complies with all testing and monitoring requirements ~~set forth~~ in Section 218.892 ~~of this Subpart~~.
- e) Filled Resins. For all filled production and tooling resins, the owner or operator of a source subject to this Subpart must~~shall~~ adjust the monomer VOM emission

rates determined ~~underpursuant to~~ subsections (b) and (c) ~~of this Section~~ using Equation 5 in subsection (e)(3). If complying ~~underpursuant to~~ subsection (b), the emission rate determined using Equation 5 ~~mustshall~~ not exceed the limitations ~~set forth~~ in subsections (e)(1) and (e)(2) ~~of this Section~~. If complying ~~underpursuant to~~ subsection (c), the value of PV_F , calculated using Equation 5 ~~must, shall~~ be used as the value of PV_i in Equation 4, ~~as set forth~~ in subsection (c)(3) ~~of this Section~~. If the non-monomer VOM content of a filled resin exceeds ~~5%5 percent~~, by weight, based on the unfilled resin, the excess non-monomer VOM ~~mustshall~~ be added to the monomer VOM content in ~~compliance~~ ~~accordance~~ with the equation ~~set forth~~ in subsection (a).

- 1) Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;
- 2) Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin applied;
- 3) Equation 5:

$$PV_F = PV_U \times \frac{100 - \% \text{ Filler}}{100}$$

where:

PV_F = The as-applied monomer VOM emission rate for the filled production resin or tooling resin, expressed in kg monomer VOM per Mg of filled material;

PV_U = The monomer VOM emission rate for the unfilled resin, before filler is added, expressed in kg monomer VOM per Mg, as calculated using the formulas in Section 218.891(c)(4) ~~of this Subpart~~;

% Filler = The weight-percent of filler in the as-applied filled resin system.

- f) The limitations in subsections (a) through (e) ~~do of this Section shall~~ not apply to the following materials. These materials ~~mustshall~~ instead comply with the applicable requirements ~~set forth~~ in subsections (f)(1) through (f)(3).

- 1) Production resins, including skin coat resins, that must meet specifications for use in military vessels or must be approved by the United States Coast Guard for use in ~~constructing the construction of~~ lifeboats, rescue boats, and other life-saving appliances approved under 46 CFR Subchapter Q,

incorporated by reference in Section 218.112~~of this Part~~, or for use in the construction of small passenger vessels regulated by 40 CFR Subchapter T, incorporated by reference in Section 218.112~~of this Part~~. The owner or operator of a source subject to this Subpart ~~must~~shall apply all~~such~~ resins with nonatomizing resin application equipment;

2) Production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch ups. These materials ~~must~~shall not exceed ~~1%+percent~~, by weight, of all resins and gel coats used at a subject source on a 12-month rolling average basis;

3) Pure ~~100%+100-percent~~ vinylester resins used for skin coats. The owner or operator of a source subject to this Subpart ~~must~~shall apply these resins with non-atomizing resin application equipment, and the total amount of the resins ~~must~~shall not exceed ~~5%+5-percent~~, by weight, of all resins used at the subject source on a 12-month rolling-average basis.

g) ~~An~~No owner or operator of a source subject to this Subpart ~~must not~~shall use VOM~~-~~containing cleaning solutions to remove cured resins and gel coats from fiberglass boat manufacturing application equipment. Additionally, ~~an~~no owner or operator ~~must not~~shall use VOM-containing cleaning solutions for routine cleaning of application equipment unless:

1) The VOM content of the cleaning solution is ~~5% or less~~less than or equal to 5 percent, by weight; or

2) The composite vapor pressure of the cleaning solution is ~~less than or equal to 0.50 mmHg~~ or less at ~~68 °F~~68°F.

h) ~~An~~No owner or operator of a source subject to this Subpart ~~must not~~shall use resin or gel coat mixing containers with a capacity ~~of at least~~equal to or greater than 208 ~~liters~~ (55 ~~gal~~gallons), including those used for on-site mixing of putties and polyputties, unless ~~thesuch~~ containers have covers with no visible gaps in place at all times, except when material is being manually added to or removed from a container or when mixing or pumping equipment is being placed in or removed from a container.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.892 Testing and Monitoring Requirements

a) Testing to demonstrate compliance with ~~the requirements of~~ Section 218.891 ~~must of this Subpart shall~~ be conducted by the owner or operator by May 1, 2012.

~~Thereafter~~, ~~after which~~ testing ~~mustshall~~ be conducted within 90 days after a request by the Agency, or as otherwise specified in this Subpart. The testing ~~mustshall~~ be conducted at the expense of the owner or operator, and the owner or operator ~~mustshall~~ notify the Agency in writing 30 days ~~before in advance of~~ conducting the testing to allow the Agency to be present during testing.

- b) Testing to demonstrate compliance with the monomer VOM content limitations for resin and gel coat materials in Section 218.891(b) ~~must of this Subpart shall~~ be conducted upon request of the Agency, or as otherwise specified in this Subpart, in ~~compliance accordance~~ with SCAQMD 312-91, incorporated by reference in Section 218.112 ~~of this Part~~.
- c) The owner or operator of a source complying with this Subpart ~~under pursuant to~~ Section 218.891(d) ~~mustshall~~ comply with the following:
 - 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, conduct an initial performance test of the control device in ~~compliance accordance~~ with this subsection (c) that demonstrates compliance with the emission limitation determined ~~under pursuant to~~ Section 218.891(d).
 - 2) ~~After Subsequent to~~ the initial performance test ~~under described in~~ subsection (c)(1) ~~of this Section~~, conduct at least one performance test per calendar year. Performance tests used to demonstrate compliance with Section 218.891(d) ~~mustshall~~ be conducted at least six months apart, unless the performance test is being conducted ~~after following~~ an exceedance of operating parameters ~~under as described in~~ subsection (c)(3) ~~of this Section~~, or ~~when requested per a request~~ by the Agency.
 - 3) Monitor and record relevant operating parameters, including the control efficiency of the control device and the amount of materials used in the fiberglass boat manufacturing process, during each control device performance test used to demonstrate compliance with Section 218.891(d). The owner or operator ~~mustshall~~ continue to operate the fiberglass boat manufacturing process within the parameters until another performance test is conducted that demonstrates compliance with Section 218.891(d). The owner or operator ~~mustshall~~ monitor the parameters at all times when the control device is in operation. If the fiberglass boat manufacturing process exceeds any operating parameter by more than ~~10% 10 percent~~, the owner or operator ~~mustshall~~ conduct additional performance testing in ~~compliance accordance~~ with this Section within 10 operating days after the exceedance.

- 4) The methods and procedures of Section 218.105(d) and (f) ~~must~~shall be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.891(d) ~~of this Subpart~~, as follows:
- A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. The sampling sites ~~to determine for determining~~ efficiency in reducing VOM from the dryer exhaust ~~must~~shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;
- B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~;
- C) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR ~~60.Appendix A-760, appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:
- i) The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
- ii) The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv; or less, as carbon; and
- iii) Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~shall be conducted using

either Method 25 or 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest again using Method 25;

D) ~~Despite Notwithstanding~~ the criteria or requirements in Method 25, which specifies a minimum probe temperature of 129 °C (265 °F)~~129°C (265°F)~~, the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7 °C (350 °F)~~176.7°C (350°F)~~; and

E) During testing, the fiberglass boat manufacturing operation ~~must~~shall be operated at representative operating conditions and flow rates.

5) If an afterburner is used to demonstrate compliance, the owner or operator ~~must~~shall:

A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3 °C~~3°C~~ or 5 °F~~5°F~~ on the emissions control system in ~~compliance~~accordance with Section 218.105(d)(2)~~of this Part~~ and in ~~compliance~~accordance with the manufacturer's specifications. Monitoring ~~must~~shall be performed at all times when the emissions control system is operating; and

B) Install, calibrate, operate, and maintain in ~~compliance~~accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.

6) If a carbon adsorber is used to demonstrate compliance, the owner or operator ~~must~~shall use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment ~~must~~shall monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.

7) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator ~~must~~shall install, maintain, calibrate, and operate the monitoring

equipment ~~in compliance with as set forth in~~ the owner's or operator's plan approved by the Agency and USEPA ~~underpursuant to~~ Section 218.891(d).

- d) Testing to demonstrate compliance with the VOM content limitations for cleaning solutions in Section 218.891(g) ~~of this Subpart~~, and with the non-monomer VOM content limitations for resin and gel coat materials in Section 218.891(a) ~~must of this Subpart, shall~~ be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:
- 1) The applicable test methods and procedures ~~specified in~~ Section 218.105(a) ~~must of this Part shall~~ be used; ~~provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, must shall~~ be used to demonstrate compliance; or
 - 2) For cleaning solvents, the manufacturer's specifications for VOM content may be used if the manufacturer's specifications are based on results of tests of the VOM content conducted in ~~compliance accordance~~ with methods ~~specified in~~ Section 218.105(a) ~~of this Part; provided, however, Method 24 must shall~~ be used to determine compliance. ~~If there is in the event of~~ any inconsistency between a Method 24 test and the manufacturer's specifications, the Method 24 test ~~must shall~~ govern.
- e) The owner or operator of a source subject to this Subpart and relying on the VOM content of the cleaning solution to comply with Section 218.891(g)(1) ~~must of this Subpart shall~~:
- 1) For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
 - A) Install, operate, maintain, and calibrate the automatic feed equipment in ~~compliance accordance~~ with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
 - B) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 218.891(g)(1);
 - 2) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the usage of cleaning solvent and water (or other non-VOM) ~~under as set forth in~~ Section 218.894(g) ~~of this Subpart~~.

- f) Testing to demonstrate compliance with the VOM composite partial vapor pressure limitation for cleaning solvents ~~set forth~~ in Section 218.891(g) ~~must of this Subpart shall~~ be conducted in ~~compliance accordance~~ with the applicable methods and procedures ~~set forth~~ in Section 218.110 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.894 Recordkeeping and Reporting Requirements

- a) The owner or operator of a source exempt from ~~the limitations of~~ this Subpart because of the criteria in Section 218.890(a) ~~must of this Subpart shall~~:
- 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the following:
 - A) A declaration that the source is exempt from the requirements in this Subpart because of the criteria in Section 218.890(a);
 - B) Calculations that demonstrate that combined emissions of VOM from all subject fiberglass boat manufacturing operations (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operation) at the source never equal or exceed 6.8 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control equipment. To calculate daily emissions of VOM, the owner or operator ~~must shall~~ determine the monthly emissions of VOM from fiberglass boat manufacturing operations at the source (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operations) and divide the amount by the number of days during that calendar month that the fiberglass boat manufacturing operations were in operation;
 - 2) Collect and record the following information and provide copies of the records to the Agency upon request:
 - A) The total pounds of all resins and gel coats used per calendar month;
 - B) The total gallons of all cleanup materials used per calendar month;
 - C) The VOM content of each resin, gel coat, and cleanup material used per calendar month;

- 13669
- 13670 D) The total VOM emissions, in pounds, for all resins, gel coats, and
- 13671 cleanup materials employed per calendar month, before
- 13672 ~~applying the application of~~ control systems and devices.
- 13673
- 13674 3) Notify the Agency of any record that shows that the combined emissions
- 13675 of VOM from subject fiberglass boat manufacturing operations at the
- 13676 source, including related cleaning activities, ever equal or exceed 6.8
- 13677 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control
- 13678 equipment, within 30 days after the event occurs, and provide copies of
- 13679 the record upon request by the Agency.
- 13680
- 13681 b) All sources subject to ~~the requirements of~~ this Subpart must ~~shall~~:
- 13682
- 13683 1) By May 1, 2012, or upon initial start-up of the source, whichever is later,
- 13684 and upon start-up of a new fiberglass boat manufacturing operation at the
- 13685 source, submit a certification to the Agency that includes:
- 13686
- 13687 A) Identification of each subject fiberglass boat manufacturing
- 13688 operation as of the date of certification;
- 13689
- 13690 B) A declaration that all subject fiberglass boat manufacturing
- 13691 operations, including related cleaning operations, are in
- 13692 compliance with ~~the requirements of~~ this Subpart;
- 13693
- 13694 C) The limitation with which each subject fiberglass boat
- 13695 manufacturing operation will comply (i.e., the VOM content
- 13696 limitation, the emissions averaging alternative, or the emissions
- 13697 control system alternative);
- 13698
- 13699 D) Initial documentation that each subject fiberglass boat
- 13700 manufacturing operation will comply with the applicable
- 13701 limitation, including copies of manufacturer's specifications, test
- 13702 results (if any), formulation data, and calculations;
- 13703
- 13704 E) Identification of the methods that will be used to demonstrate
- 13705 continuing compliance with the applicable limitations;
- 13706
- 13707 F) A description of the practices and procedures that the source will
- 13708 follow to ensure compliance with ~~the limitations in~~ Section
- 13709 218.891(h) ~~of this Subpart~~;
- 13710

- 13711 G) A description of each fiberglass boat manufacturing operation
 13712 exempt ~~underpursuant to~~ Section 218.890(b) ~~of this Subpart~~, if
 13713 any; and
 13714
 13715 H) A description of materials subject to Section 218.891(f) ~~of this~~
 13716 ~~Subpart~~, if any, used in each fiberglass boat manufacturing
 13717 operation;
 13718
 13719 2) At least 30 calendar days before changing the method of compliance
 13720 ~~underin accordance with~~ Section 218.891(b), (c), and (d), notify the
 13721 Agency in writing of the change. The notification ~~mustshall~~ include a
 13722 demonstration of compliance with the newly applicable subsection;
 13723
 13724 3) Notify the Agency in writing of any violation of ~~the requirements of~~ this
 13725 Subpart within 30 days ~~afterfollowing the occurrence of~~ the violation and
 13726 provide records documenting the violation upon request by the Agency;
 13727 and
 13728
 13729 4) Retain all records required by this Section for at least three years and
 13730 make those records available to the Agency upon request.
 13731
 13732 c) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the~~
 13733 ~~limitations of~~ Section 218.891 ~~of this Subpart~~ and complying ~~underby means of~~
 13734 Section 218.891(b) ~~mustshall~~ comply with the following.
 13735
 13736 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a
 13737 certification to the Agency that includes the name, identification number,
 13738 and VOM content of each subject resin and gel coat as applied each day
 13739 by each subject fiberglass boat manufacturing operation;
 13740
 13741 2) Collect and record the following information each day for each fiberglass
 13742 boat manufacturing operation complying with Section 218.891(b):
 13743
 13744 A) The name, identification number, and VOM content of each
 13745 subject resin and gel coat as applied each day by each fiberglass
 13746 boat manufacturing operation; and
 13747
 13748 B) If complying with Section 218.891(b)(2), the mass of each open
 13749 molding resin or gel coat as applied each month by each subject
 13750 fiberglass boat manufacturing operation, and the weighted average
 13751 VOM content of all subject resins and gel coats as applied by each
 13752 subject fiberglass boat manufacturing operation.
 13753

- d) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the requirements of~~ Section 218.891 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.891(c) ~~must~~shall:
- 1) On and after May 1, 2012, collect and record the following information each month:
 - A) The amount of production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation;
 - B) The VOM content of each production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation; and
 - C) Total monthly VOM emissions for all subject fiberglass boat manufacturing operations; and
 - 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, collect and record the following information:
 - A) The monomer VOM mass emission limit for all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period, with supporting calculations; and
 - B) The total actual emissions of VOM from all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period.
- e) The owner or operator of a fiberglass boat manufacturing operation subject to ~~the requirements of~~ Section 218.891 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.891(d) ~~must~~shall:
- 1) By May 1, 2012, or upon initial start-up, whichever is later, and upon start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of control device used to comply with the requirements of Section 218.891(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with ~~the requirements of~~ Section 218.891(d); and

- 13797 C) A declaration that the monitoring equipment required under
13798 Section 218.892 ~~of this Subpart~~ has been properly installed and
13799 calibrated according to manufacturer's specifications;
13800
- 13801 2) Within 90 days after conducting testing ~~underpursuant to~~ Section 218.892,
13802 submit to the Agency a copy of all test results and, ~~as well as~~ a
13803 certification that includes ~~the following~~:
13804
- 13805 A) A declaration that all tests and calculations necessary to
13806 demonstrate whether the fiberglass boat manufacturing operation is
13807 in compliance with Section 218.891(d) have been properly
13808 performed;
13809
- 13810 B) A statement whether the fiberglass boat manufacturing operations
13811 are or are not in compliance with Section 218.891(d);
13812
- 13813 C) The emissions limitation applicable during the control device
13814 performance test, with supporting calculations; and
13815
- 13816 D) The operating parameters of the fiberglass boat manufacturing
13817 process during testing, as monitored in ~~compliance accordance~~ with
13818 Section 218.892; and
13819
- 13820 3) Collect and record daily the following information for each fiberglass boat
13821 manufacturing operation subject to ~~the requirements of~~ Section
13822 218.891(d), and submit that information to the Agency upon request:
13823
- 13824 A) Afterburner or other approved control device monitoring data in
13825 accordance with Section 218.892 ~~of this Subpart~~;
13826
- 13827 B) A log of operating time for the control device and monitoring
13828 equipment;
13829
- 13830 C) A maintenance log for the control device and monitoring
13831 equipment detailing all routine and non-routine maintenance
13832 performed, including dates and duration of any outages; and
13833
- 13834 D) Information to substantiate that the fiberglass boat manufacturing
13835 operation is operating in compliance with the parameters
13836 determined ~~underpursuant to~~ Section 218.892.
13837

- f) The owner or operator of a source subject to ~~the requirements in~~ Section 218.891(f) ~~must of this Subpart shall~~ collect and record the following information for each fiberglass boat manufacturing operation:
- 1) The name and identification number of each material subject to Section 218.891(f) as applied each day by each subject fiberglass boat manufacturing operation;
 - 2) If subject to Section 218.891(f)(2), the amount of production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch-ups, used each month at the subject source, and the total amount of all resins and gel coats used each month at the subject source;
 - 3) If subject to Section 218.891(f)(3), the amount of pure ~~100%, 100 percent~~ vinylester resins used for skin coats each month at the subject source, and the total amount of all resins used each month at the subject source.
- g) The owner or operator of a source subject to ~~the requirements of~~ Section 218.891 ~~must of this Subpart shall~~ collect and record the following information for each cleaning solution used in each fiberglass boat manufacturing operation:
- 1) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 218.891(g) ~~of this Subpart~~ and that is prepared at the source with automatic equipment:
 - A) The name and identification of each cleaning solution;
 - B) The VOM content of each cleaning solvent in the cleaning solution, as determined in ~~compliance accordance~~ with Section 218.892(d) ~~of this Subpart~~;
 - C) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - D) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - E) The VOM content of the as-used cleaning solution, with supporting calculations; and

- 13880 F) A calibration log for the automatic equipment, detailing periodic
 13881 checks;
 13882
- 13883 2) For each batch of cleaning solution for which the owner or operator relies
 13884 on the VOM content to demonstrate compliance with Section 218.891(g),
 13885 and that is not prepared at the source with automatic equipment:
 13886
- 13887 A) The name and identification of each cleaning solution;
 13888
- 13889 B) Date and time of preparation, and each subsequent modification, of
 13890 the batch;
 13891
- 13892 C) The VOM content of each cleaning solvent in the cleaning
 13893 solution, as determined in compliance with Section
 13894 218.892(d);
 13895
- 13896 D) The total amount of each cleaning solvent and water (or other non-
 13897 VOM) used to prepare the as-used cleaning solution; and
 13898
- 13899 E) The VOM content of the as-used cleaning solution, with
 13900 supporting calculations; and
 13901
- 13902 3) For each batch of cleaning solution for which the owner or operator relies
 13903 on the vapor pressure of the cleaning solution to demonstrate compliance
 13904 with Section 218.891(g):
 13905
- 13906 A) The name and identification of each cleaning solution;
 13907
- 13908 B) Date and time of preparation, and each subsequent modification, of
 13909 the batch;
 13910
- 13911 C) The molecular weight, density, and VOM composite partial vapor
 13912 pressure of each cleaning solvent, as determined in
 13913 compliance with Section 218.892(f) ~~of this Subpart~~;
 13914
- 13915 D) The total amount of each cleaning solvent, including water, used to
 13916 prepare the as-used cleaning solution; and
 13917
- 13918 E) The VOM composite partial vapor pressure of each as-used
 13919 cleaning solution, as determined in compliance with
 13920 Section 218.110 ~~of this Part~~.
 13921

13922 (Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section 218.900 Applicability

- a) Except ~~under as provided in~~ subsection (b) ~~of this Section~~, on and after May 1, 2012, ~~the requirements of~~ this Subpart ~~applies shall apply~~ to miscellaneous industrial adhesive application operations at sources where the total actual VOM emissions from all such operations, including related cleaning activities, are at least equal or exceed 6.8 kg/day (15 lbs/day), calculated in ~~compliance accordance~~ with Section 218.904(a)(1)(B), ~~without in the absence of~~ air pollution control equipment.
- b) ~~Despite Notwithstanding~~ subsection (a) ~~of this Section~~:
 - 1) ~~This The requirements of this~~ Subpart ~~does shall~~ not apply to miscellaneous industrial adhesive application operations associated with ~~the following~~:
 - A) Aerospace coatings;
 - B) Metal furniture coatings;
 - C) Large appliance coatings;
 - D) Flat wood paneling coatings;
 - E) Paper, film, and foil coatings;
 - F) Lithographic printing;
 - G) Letterpress printing;
 - H) Flexible package printing;
 - I) Coil coating;
 - J) Fabric coating;
 - K) Rubber tire manufacturing.
 - 2) ~~The requirements of~~ Section 218.901(b) through (e) ~~does of this Subpart shall~~ not apply to the following:

- 13966 A) Adhesives or adhesive primers being tested or evaluated in any
13967 research and development operation or quality assurance or
13968 analytical laboratory;
13969
- 13970 B) Adhesives or adhesive primers used in the assembly, repair, or
13971 manufacture of aerospace or undersea-based weapon systems;
13972
- 13973 C) Adhesives or adhesive primers used in medical equipment
13974 manufacturing operations;
13975
- 13976 D) Cyanoacrylate adhesive application operations;
13977
- 13978 E) Aerosol adhesive and aerosol adhesive primer application
13979 operations;
13980
- 13981 F) Operations using polyester bonding putties to assemble fiberglass
13982 parts at fiberglass boat manufacturing facilities and at other
13983 reinforced plastic composite manufacturing facilities;
13984
- 13985 G) Operations using adhesives and adhesive primers that are supplied
13986 to the manufacturer in containers with a net volume of 0.47 liters
13987 (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.
13988
- 13989 c) If a miscellaneous industrial adhesive application operation at a source is or
13990 becomes subject to at least one or more of the limitations in this Subpart, the
13991 miscellaneous industrial adhesive application operation is always subject to the
13992 applicable provisions of this Subpart.
13993
- 13994 d) The owner or operator of a source exempt from the emission limitations and
13995 control requirements of this Subpart because of the criteria in subsection (a) ~~of~~
13996 this Section is subject to the recordkeeping and reporting requirements ~~specified~~
13997 in Section 218.904(a) ~~of this Subpart~~.
13998

13999 (Source: Amended at 50 Ill. Reg. _____, effective _____)
14000

14001 Section 218.901 Emission Limitations and Control Requirements

- 14002
- 14003 a) The owner or operator of a source subject to ~~the requirements of~~ this Subpart
14004 must ~~shall~~ comply with the limitations in subsection (b), (c), or (d) ~~and of this~~
14005 Section, as well as with the limitations in subsections (e) and (f) ~~of this Section~~.
14006 Despite Notwithstanding this requirement, sources subject to Section
14007 218.900(b)(2) must ~~shall~~ comply with the limitations in subsection (f) ~~of this~~
14008 Section only.

14009				
14010	b)	The owner or operator of adhesive application operations listed in this subsection		
14011		(b) ~~must~~ <u>shall</u> comply with the following VOM emission limitations,		
14012		~~excluding~~ <u>minus</u> water and any compounds that are specifically exempted from the		
14013		definition of VOM, as applied. If an adhesive is used to bond dissimilar substrates		
14014		together, the substrate category with the highest VOM emission limitation		
14015		~~applies~~ <u>shall apply</u> :		
14016				
			kg VOM/l adhesive or adhesive primer applied	lb VOM/gal adhesive or adhesive primer applied
	1)	General adhesive application operations		
	A)	Reinforced plastic composite	0.200	(1.7)
	B)	Flexible vinyl	0.250	(2.1)
	C)	Metal	0.030	(0.3)
	D)	Porous material (except wood)	0.120	(1.0)
	E)	Rubber	0.250	(2.1)
	F)	Wood	0.030	(0.3)
	G)	Other substrates	0.250	(2.1)
	2)	Specialty adhesive application operations		
	A)	Ceramic tile installation	0.130	(1.1)
	B)	Contact adhesive	0.250	(2.1)
	C)	Cove base installation	0.150	(1.3)
	D)	Indoor floor covering installation	0.150	(1.3)
	E)	Outdoor floor covering installation	0.250	(2.1)
	F)	Installation of perimeter bonded sheet flooring	0.660	(5.5)

G)	Metal to urethane/rubber molding or casting	0.850	(7.1)
H)	Motor vehicle adhesive	0.250	(2.1)
I)	Motor vehicle weatherstrip adhesive	0.750	(6.3)
J)	Multipurpose construction	0.200	(1.7)
K)	Plastic solvent welding (acrylonitrile butadiene styrene (ABS) welding)	0.400	(3.3)
L)	Plastic solvent welding (except ABS welding)	0.500	(4.2)
M)	Sheet rubber lining installation	0.850	(7.1)
N)	Single-ply roof membrane installation/repair (except ethylene <u>propylene diene</u> propylene diene monomer (EPDM) roof membrane)	0.250	(2.1)
O)	Structural glazing	0.100	(0.8)
P)	Thin metal laminate	0.780	(6.5)
Q)	Tire repair	0.100	(0.8)
R)	Waterproof resorcinol glue	0.170	(1.4)
3)	Adhesive primer application operations		
A)	Motor vehicle glass bonding primer	0.900	(7.5)
B)	Plastic solvent welding adhesive primer	0.650	(5.4)
C)	Single-ply roof membrane adhesive primer	0.250	(2.1)

D) Other adhesive primer 0.250 (2.1)

- c) ~~An~~ owner or operator of a source subject to this Subpart ~~must not shall~~ operate a miscellaneous industrial adhesive application operation unless the daily-weighted average VOM content of subject adhesives as applied each day by the operation, calculated in ~~compliance accordance~~ with subsection (c)(1) ~~of this Section~~, is less than or equal to the emissions limitation calculated in ~~compliance accordance~~ with subsection (c)(2) ~~of this Section~~.

1) Weighted Average of VOM Content of Adhesives Applied Each Day

$$VOM_{WA} = \frac{\sum_{i=1}^n V_i VOM_i}{\sum_{i=1}^n V_i}$$

where:

VOM_{WA} = The weighted average VOM content in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day;

i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

VOM_i = The VOM content in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied;

2) Allowable Weighted Average VOM Limit for an Averaging Operation

$$Limit_{WA} = \frac{\sum_{i=1}^n V_i Limit_i}{\sum_{i=1}^n V_i}$$

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where:

Limit_{WA} = The allowable weighted average VOM limit in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day in a single operation;

i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

V_i = The volume of each adhesive, as applied, in units of l (gal);

Limit_i = The VOM limit, taken from subsection (b) ~~of this Section~~, in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied.

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d) ~~An~~ owner or operator of a source subject to this Subpart ~~must not shall~~ operate a miscellaneous industrial adhesive application operation employing a capture system and control device unless either:

- 1) An afterburner or carbon adsorption system is used that provides at least ~~85%85 percent~~ reduction in the overall emissions of VOM from the application operation;
- 2) An alternative capture and control system is used that provides at least ~~85%85 percent~~ reduction in the overall emissions of VOM from the application operation and is approved by the Agency and approved by USEPA as a SIP revision. The owner or operator ~~must shall~~ submit to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; or
- 3) The owner or operator complies with the applicable limitation ~~set forth~~ in subsection (b) ~~of this Section~~ by usingutilizing a combination of low-VOM adhesives and an afterburner or carbon adsorption system. The owner or operator may use an alternative capture and control system if the owner or operator submits to the Agency a plan ~~to the Agency~~ detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the capture and control system, and the

system is approved by the Agency and approved by USEPA as a SIP revision.

- e) The owner or operator of a source subject to this Subpart ~~must~~shall apply all miscellaneous industrial adhesives using at least one ~~or more~~ of the following methods:
- 1) Electrostatic spray;
 - 2) High volume low pressure (HVLP) spray;
 - 3) Flow coating. For ~~the purposes of~~ this Subpart, "flow coating" means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - 4) Roll coating or hand application, including non-spray application methods similar to hand or mechanically powered caulking gun, brush, or direct hand application;
 - 5) Dip coating, including electrodeposition. For ~~purposes of~~ this Subpart, "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - 6) Airless spray;
 - 7) Air-assisted airless spray; or
 - 8) Another adhesive application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.
- f) The owner or operator of a source subject to this Subpart ~~must~~shall comply with the following work practices for each subject miscellaneous adhesive application operation at the source:
- 1) Store all VOM-containing adhesives, adhesive primers, process-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning

materials are kept closed at all times except when depositing or removing those materials;

- 3) Minimize spills of VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials;
- 4) Convey VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and
- 5) Minimize VOM emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.902 Testing Requirements

- a) Testing to demonstrate compliance with ~~the requirements of~~ this Subpart ~~must~~shall be conducted by the owner or operator by May 1, 2012, ~~after which-~~ ~~Thereafter,~~ testing ~~must~~shall be conducted within 90 days after a request by the Agency, or as otherwise provided in this Subpart. The testing ~~must~~shall be conducted at the expense of the owner or operator, and the owner or operator ~~must~~shall notify the Agency in writing 30 days ~~before in advance of~~ conducting the testing to allow the Agency to be present during testing.
- b) Testing to demonstrate compliance with the VOM content limitations in Section 218.901(b) ~~must of this Subpart shall~~ be conducted as follows:
 - 1) Method 24, incorporated by reference in Section 218.112 ~~must of this Part, shall~~ be used for non-reactive adhesives. If it is demonstrated to the satisfaction of the Agency and the USEPA that plant adhesive formulation data are equivalent to Method 24 results, formulation data may be used. ~~If there is~~In the event of any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern;
 - 2) ~~Appendix A of~~ 40 CFR 63, Subpart PPPP, ~~Appendix A,~~ incorporated by reference in Section 218.112 ~~of this Part,~~ ~~must~~shall be used for reactive adhesives.
 - 3) The manufacturer's specifications for VOM content for adhesives may be used if the specifications are based on results of tests of the VOM content

conducted in ~~compliance~~ ~~accordance~~ with methods ~~specified~~ in subsections (b)(1) and (b)(2) ~~of this Section~~, as applicable.

- c) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) ~~must of this Part shall~~ be used for testing to demonstrate compliance with ~~the requirements of~~ Section 218.901(d) ~~of this Subpart~~, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR ~~60.Appendix A-160, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR ~~60.Appendix A-1-60, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR ~~60.Appendix A-760, appendix A~~, incorporated by reference in Section 218.112 ~~of this Part~~. For thermal and catalytic afterburners, Method 25 must be used, except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon;
 - C) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest ~~must~~ ~~shall~~ be conducted using either Method 25 or 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust

concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

D) During testing, the cleaning equipment mustshall be operated at representative operating conditions and flow rates.

- d) An owner or operator using an emissions control system other than an afterburner or carbon adsorber mustshall conduct testing to demonstrate compliance with ~~the requirements of~~ Section 218.901(d) ~~as set forth~~ in the owner's or operator's plan approved by the Agency and USEPA underpursuant to Section 218.901(d)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.903 Monitoring Requirements

- a) If an afterburner is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) mustof this Subpart shall:
- 1) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3 °C3°C or 5 °F5°F on the emissions control system in complianceacecordance with Section 218.105(d)(2) ~~of this Part~~ and in complianceacecordance with the manufacturer's specifications. Monitoring mustshall be performed at all times when the emissions control system is operating; and
 - 2) Install, calibrate, operate, and maintain, in complianceacecordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder, or computer, with at least the same accuracy as the temperature monitor.
- b) If a carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) mustof this Subpart shall use Agency and USEPA approved continuous monitoring equipment that is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use. The continuous monitoring equipment mustshall monitor the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
- c) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) mustof this Subpart shall install, maintain, calibrate, and operate the monitoring equipment underas set forth in the owner's or operator's

plan approved by the Agency and USEPA ~~underpursuant to~~ Section 218.901(d)(3).

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.904 Recordkeeping and Reporting Requirements

- a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) ~~must of this Subpart shall~~ comply with the following:
 - 1) By May 1, 2012, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from ~~the requirements of~~ this Section because of the criteria in Section 218.900(a);
 - B) Calculations that demonstrate that combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, never equal or exceed 6.8 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control equipment. To calculate daily emissions of VOM, the owner or operator ~~must shall~~ determine the monthly emissions of VOM from miscellaneous industrial adhesive application operations at the source (including related cleaning activities) and divide this amount by the number of days during that calendar month that miscellaneous industrial adhesive application operations at the source were in operation;
 - 2) Collect and record the following information each month for each miscellaneous industrial adhesive application operation, maintain the information at the source for ~~a period of~~ three years, and provide the information to the Agency upon request:
 - A) The name and identification number of each adhesive as applied by each miscellaneous industrial adhesive application operation; and
 - B) The weight of VOM per volume and the volume of each adhesive (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each month by each miscellaneous industrial adhesive application operation;

- 14277 3) Notify the Agency of any record that shows that the combined emissions
 14278 of VOM from miscellaneous industrial adhesive application operations at
 14279 the source, including related cleaning activities, ever equal or exceed 6.8
 14280 kg/day (15 lbs/day) ~~without, in the absence of~~ air pollution control
 14281 equipment, within 30 days after the event occurs, and provide copies of
 14282 those records upon request by the Agency.
 14283
- 14284 b) All sources subject to ~~the requirements of~~ this Subpart ~~must~~shall:
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- 14286 1) By May 1, 2012, or upon initial start-up of the source, whichever is later,
 14287 submit a certification to the Agency that includes:
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- 14289 A) Identification of each subject adhesive application operation as of
 14290 the date of certification;
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- 14292 B) A declaration that all subject adhesive application operations are in
 14293 compliance with ~~the requirements of~~ this Subpart;
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- 14295 C) The limitation with which each subject adhesive application
 14296 operation will comply (i.e., the VOM content limitation, the daily
 14297 weighted averaging alternative, or the emissions control system
 14298 alternative);
 14299
- 14300 D) Initial documentation that each subject adhesive application
 14301 operation will comply with the applicable limitation, including
 14302 copies of manufacturer's specifications, test results (if any),
 14303 formulation data, and calculations;
 14304
- 14305 E) Identification of the methods that will be used to demonstrate
 14306 continuing compliance with the applicable limitations;
 14307
- 14308 F) A description of the practices and procedures that the source will
 14309 follow to ensure compliance with ~~the limitations in~~ Section
 14310 218.901(f) ~~of this Subpart~~;
 14311
- 14312 G) A description of each adhesive application operation exempt
 14313 ~~under~~pursuant to Section 218.900(b)(2) ~~of this Subpart~~, if any; and
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- 14315 H) The application methods used by each subject adhesive application
 14316 operation;
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- 14318 2) At least 30 calendar days before changing the method of compliance
 14319 ~~under~~in accordance with Section 218.901(b), (c), and (d), notify the

Agency in writing of the change. The notification ~~must~~shall include a demonstration of compliance with the newly applicable subsection;

- 3) Notify the Agency in writing of any violation of ~~the requirements of~~ this Subpart within 30 days ~~after following the occurrence of~~ the violation and provide records documenting the violation upon request by the Agency;
- 4) Retain all records required by this Section for at least three years and make those records available to the Agency upon request.

c) The owner or operator of an adhesive application operation subject to ~~the limitations of~~ Section 218.901 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.901(b) ~~must~~shall comply with the following:

- 1) By May 1, 2012, or upon the initial start-up date, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;
- 2) Collect and record the name, identification number, and VOM content of each adhesive as applied each day by each adhesive application operation complying with Section 218.901(b).

d) The owner or operator of an adhesive application operation subject to ~~the limitations of~~ Section 218.901 ~~of this Subpart~~ and complying by means of Section 218.901(c) ~~must~~shall comply with the following:

- 1) By May 1, 2012, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;
- 2) Collect and record the following information each day for each adhesive application operation complying by means of Section 218.901(c):
 - A) The name, identification number, VOM content, and volume of each adhesive as applied each day by each subject adhesive application operation;
 - B) The daily weighted average VOM content of all adhesives as applied by each subject adhesive application operation.

- e) The owner or operator of an adhesive application operation subject to ~~the requirements of~~ Section 218.901 ~~of this Subpart~~ and complying ~~under by means of~~ Section 218.901(d) ~~must~~shall:
- 1) By May 1, 2012, or upon the initial start-up date, whichever is later, and upon initial start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of afterburner or other approved control device used to comply with ~~the requirements of~~ Section 218.901(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.901(d); and
 - C) A declaration that the monitoring equipment required under Section 218.903 ~~of this Subpart~~ has been properly installed and calibrated according to manufacturer's specifications;
 - 2) Within 90 days after conducting testing ~~under pursuant to~~ Section 218.902 ~~of this Subpart~~, submit to the Agency a copy of all test results ~~and, as well as~~ a certification that includes ~~the following~~:
 - A) A declaration that all tests and calculations necessary to demonstrate whether the adhesive application operations are in compliance with Section 218.901(d) have been properly performed;
 - B) A statement whether the adhesive application operations are or are not in compliance with Section 218.901(d); and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in ~~compliance accordance~~ with Section 218.903 ~~of this Subpart~~;
 - 3) Collect and record daily the following information for each adhesive application operation subject to ~~the requirements of~~ Section 218.901(d):
 - A) Afterburner or other approved control device monitoring data in ~~compliance accordance~~ with Section 218.903 ~~of this Subpart~~;

- B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated application unit; and
- C) A maintenance log for the afterburner or other approved control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

Section 218.920 Applicability

- a) Maximum theoretical emissions:
 - 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T, (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~, which as a group both:
 - A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; and
 - B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment, through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision.
 - 2) If a source is subject to this Subpart under subsection (a)(1) as provided above, the requirements of this Subpart applies shall apply to a source's miscellaneous fabricated product manufacturing process emission units which are not included within any of the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB ~~of this Part~~.
- b) Potential to emit:
 - 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units that are:

- 14446 A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding
14447 Section 218.486), V, X, Y, Z, or BB₂ ~~of this Part~~, or
14448
- 14449 B) Not included in any of the following categories: synthetic organic
14450 chemical manufacturing industry (SOCMI) distillation, SOCMI
14451 reactors, wood furniture, plastic parts coating (business machines),
14452 plastic parts coating (other), offset lithography, industrial
14453 wastewater, autobody refinishing, SOCMI batch processing,
14454 VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents
14455 operations.
14456
- 14457 2) If a source is subject to this Subpart under subsection (b)(1) as provided
14458 above, the requirements of this Subpart apply ~~shall apply~~ to a source's
14459 miscellaneous fabricated product manufacturing process emission units;
14460 which are:
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- 14462 A) Not included within any of the categories specified in Subparts B,
14463 E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD₂ ~~of this Part~~,
14464 or
14465
- 14466 B) Not included in any of the following categories: synthetic organic
14467 chemical manufacturing industry (SOCMI) distillation, SOCMI
14468 reactors, wood furniture, plastic parts coating (business machines),
14469 plastic parts coating (other), offset lithography, industrial
14470 wastewater, autobody refinishing, SOCMI batch processing,
14471 VOL ~~volatile organic liquid~~ storage tanks and clean-up solvents
14472 operations.
14473
- 14474 c) If a source ceases to fulfill the criteria of subsections (a) or and/or (b) or
14475 both above, the requirements of this Subpart continue ~~shall continue~~ to apply to a
14476 miscellaneous fabricated products manufacturing process emission unit which
14477 was subject to the control requirements of Section 218.926 ~~of this Part~~.
14478
- 14479 d) Limits ~~No limits~~ under this Subpart do not ~~shall~~ apply to emission units with
14480 emissions of VOM to the atmosphere of less than or equal to 0.91 Mg (1.0 ton) or
14481 less per calendar year if the total emissions from these ~~such~~ emission units not
14482 complying with Section 218.926 do of this Part does not exceed 4.5 Mg (5.0 tons)
14483 per calendar year; however, provided that this provision does ~~shall~~ not apply to an
14484 emission unit which is a leather coating line or operation at a source where the
14485 criteria of Section 218.920(a) ~~above~~ are not met.
14486
- 14487 e) For the purposes of this Subpart, an emission unit is ~~shall be~~ considered regulated
14488 by a Subpart if it is subject to the limits of that Subpart. An emission unit is

considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

- f) For ~~the purposes of~~ this Subpart, VOM emissions ~~without in the absence of~~ air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart PP ~~do shall~~ not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.926 Control Requirements

Every owner or operator of miscellaneous fabricated product manufacturing process emission unit subject to this Subpart must shall comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~of this Section:~~

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least 81%~~81 percent~~ from each emission unit;
~~or~~

(~~BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) For coating lines:

- 1) The daily-weighted average VOM content must shall not exceed 0.42 kg

VOM/1 (3.5 lbs VOM/gal) of coating as applied (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM) during any day. Owners and operators complying with this limitation are not required to comply with Section 218.301. ~~of this Part; or~~

2) For ~~applying application of~~ coatings to leather at a source where the criteria of Section 218.290(a) are not met:

A) For ~~applying application of~~ stain coating to leather, other than specialty leather, either:

i) The VOM contained in stain coatings, other than stain coatings applied to specialty leather, as applied at the source in any consecutive 12-month period ~~must shall~~ not exceed 10 tons; or

ii) The application of stain coatings ~~must shall~~ comply with Section 218.926(b)(2)(C). ~~below; or~~

B) For ~~applying application of~~ coatings to specialty leather, the total VOM content of all coatings, including stains, as applied to a category of specialty leather, ~~must shall~~ not exceed 38 lbs per ~~1,000 1000~~ square feet of ~~thesuch~~ specialty leather produced, determined on a monthly basis:

$$C = E/A \quad \text{---} \quad C = E \div A$$

Where:

C = The VOM contained in all coatings applied to a category of specialty leather in units of lbs/square feet;

E = The total VOM content of all coatings applied to the category of specialty leather during each month in units of lbs determined as the sum of the VOM content of each coating applied during the month to such leather;

A = The total area of the category of specialty leather produced in the month in units of square feet, determined as the sum of the area of each type of leather item produced during the month based on the number of ~~thesuch~~ items produced and the area of ~~thesuch~~ item, measured or established in ~~compliance~~ ~~accordance~~ with

procedures ~~set~~ in a federally enforceable permit; ~~or~~

- C) For ~~applying application of~~ coatings to leather, except for ~~such~~ coatings ~~as are~~ complying ~~under by means of~~ Section 218.926(b)(2)(A) or (B) ~~above~~, either:
- i) The VOM content of each coating ~~must shall~~ not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating as applied (~~excluding minus~~ water and any compounds which are specifically exempted from the definition of VOM). Owners and operators complying with this limitation are not subject to Section 218.301 ~~of this Part~~; or
 - ii) The daily-weighted average VOM content ~~must shall~~ not exceed 0.42 ~~kg VOM/l Kg Vom/l~~ (3.5 lbs ~~VOM/gal Vom/gal~~) of coating as applied ~~under as provided in~~ Section 218.916(b)(1) ~~above; or~~
- c) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.927 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must shall~~ comply with ~~those the~~ requirements ~~thereof~~ on and after an applicable date ~~under consistent with~~ Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.928 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.926, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must shall~~, at ~~its~~ own expense, conduct ~~the such~~ tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified~~ in Section 218.105.
- b) Nothing in this Section ~~limits shall limit~~ the authority of ~~the~~ USEPA ~~under pursuant to~~ the CAA Clean Air Act, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.929 Cementable and Dress or Performance Shoe Leathers

- a) ~~This rule requirements of this~~ Section ~~applies apply~~ to a leather manufacturing facility located at 2015 North Elston Avenue, Chicago, ~~Illinois~~. The VOM emission limits ~~set forth~~ in this Section ~~shall only~~ apply only to the following types of select grade of chrome tanned, bark/polymer retanned specialty leathers:

- 1) "Cementable shoe leather" ~~Shoe Leather~~ is leather which is:

- A) Hot stuffed without the presence of water, fat liquored, or wet stuffed by direct contact with wax, grease, polymers, and oils in liquefied form at elevated temperatures. The content of wax, grease, polymers, and oils embedded into the leather ~~must~~ shall be over ~~12%12 percent~~ but less than ~~25%25 percent~~ by weight, measured on a dry weight basis. Applicable leathers ~~must~~ shall be determined using the equation below:

$$\underline{12\% < P < 25\%} \quad \underline{12\% < P < 25\%}$$

Where:

$$P = W \backslash L \times 100$$

P = percent content of wax, grease, polymer, and oils

W = weight of wax, grease, polymers, and oils in pounds added to the leather

L = dry weight of the leather in pounds before addition of wax, greases, polymers, and oils;

- B) Finished with coating materials which adhere to the leather surface that feels oily; and
- C) Used primarily ~~to for~~ manufacture ~~of~~ shoes and cannot meet the definition for specialty leather ~~underpursuant to~~ 35 Ill. Adm. Code Section 211.6170.

- 2) "Dress or performance shoe leather" ~~Performance Shoe Leather~~ is leather which is:

- 14645 A) Finished with coating materials containing ~~water-emulsified~~water
 14646 ~~emulsified~~ materials using ~~water-miscible~~water-miscible solvent
 14647 materials to protect the leather and pigmented coating; and
 14648
- 14649 B) Used primarily ~~to~~for manufacture ~~of~~ sewn shoes where the leather
 14650 must be capable of soaking with a fine, dressy finish that cannot
 14651 meet the lbs. per gallon VOM limitations ~~set forth~~ in Section
 14652 218.926 ~~of this Subpart~~ and cannot meet the definition for
 14653 specialty leather ~~underpursuant to~~ 35 Ill. Adm. Code 211.6170.
 14654
- 14655 3) ~~This~~The requirements of this Section ~~does~~do not apply to the production
 14656 of ~~those~~ specialty leathers that meet the definition of specialty leathers
 14657 ~~underpursuant to~~ 35 Ill. Adm. Code 211.6170 or to the production of
 14658 leathers that can meet the control requirements of Section 218.926 ~~of this~~
 14659 ~~Subpart~~.
 14660
- 14661 4) The 10-ton exemption for stain ~~underpursuant to~~ Section 218.926(b)(2)(i)
 14662 ~~of this Subpart~~ does not apply to leathers produced ~~underpursuant to~~ the
 14663 requirements of this Section.
 14664
- 14665 b) The production of specialty leather as defined in subsection (a) ~~of this Section~~ is
 14666 subject to the following limitations:
 14667
- 14668 1) For both ~~water-resistant~~water resistant and ~~non-water-resistant~~non-water
 14669 ~~resistant~~ leathers, the leather will be designated as ~~water-resistant~~water
 14670 ~~resistant~~ or ~~non-water-resistant~~non-water resistant in the shipping room by
 14671 using ASTM ~~D2099-14 (2023)~~D2099-00, as incorporated by reference in
 14672 Section 218.112 ~~of this Part~~.
 14673
- 14674 2) For ~~non-water-resistant~~non-water resistant leathers, the total VOM
 14675 emissions ~~must~~shall not exceed 14.0 lbs. VOM/1,000 square feet of
 14676 leather produced on a 12-month rolling average basis.
 14677
- 14678 3) For water resistant leathers, the total VOM emissions ~~must~~shall not exceed
 14679 24.0 lbs. VOM/1,000 square feet of leather produced on a 12-month
 14680 rolling average basis.
 14681
- 14682 4) The total emissions of VOM from leathers produced ~~underpursuant to~~ the
 14683 emission limits in this Section ~~must~~shall not exceed 20 tons per year.
 14684
- 14685 c) The owner or operator ~~must~~shall comply with its approved standard operating and
 14686 maintenance procedures (SOMP). The SOMP ~~must~~will contain the following
 14687 elements:

- 1) A procedure to minimize the volatilization of solvents during the measuring of coating proportions ~~or and/or~~ mixing of coatings or both.
 - 2) A procedure to minimize VOM fugitive losses from the coating and solvent storage rooms. Procedures should include methods of securely sealing containers and methods to clean up accidental spills.
 - 3) A procedure to minimize solvent usage or VOM losses during equipment cleanup and during transport (including the transferring of coatings from the mixing areas to the coating lines).
- d) The owner or operator ~~must~~shall perform the reporting and recordkeeping ~~under record keeping consistent with the requirements of~~ Section 218.929 ~~of this Subpart~~ and Section 39.5 of the Act (415 ILCS 5/39.5), and ~~must~~shall include at a minimum the following:
- 1) The VOM content and gallons of each coating and the total pounds of VOM of all coatings applied to each category of leather, e.g., cementable ~~non-water-resistant~~non-water resistant, dress ~~water-resistant~~water resistant, by batch during each month; and
 - 2) The total area of each category of leather produced during the month based on the number of items produced and the area of ~~these~~such items, measured or established in ~~compliance~~accordance with procedures ~~set forth~~ in a federally enforceable permit.
 - 3) Despite~~Notwithstanding~~ the requirements of subsections (d)(1) and (d)(2) ~~of this Section~~, the owner or operator may comply with an equivalent alternative plan for reporting and recordkeeping that has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

Section 218.940 Applicability

- a) Maximum theoretical emissions:
 - 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H

(excluding Section 218.405), Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB of this Part, which as a group both:

- A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; and
- B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment, through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP or FIP revision.

- 2) If a source is subject to this Subpart under subsection (a)(1) as provided above, ~~the requirements of~~ this Subpart applies shall apply to a source's miscellaneous formulation manufacturing process emission units which are not included within any of the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB of this Part.

b) Potential to emit:

- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units that are:

- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB; ~~of this Part~~, or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.

- 2) If a source is subject to this Subpart under subsection (b)(1) as provided above, ~~the requirements of~~ this Subpart applies shall apply to a source's miscellaneous formulation manufacturing process emission units which are:

- A) Not included within any of the categories ~~specified~~ in Subparts B, E, F, H, Q, R, T, V, X, Y, Z, AA, BB, CC, or DD; ~~of this Part~~, or
- B) Not included in any of the following categories: synthetic organic

chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.

- c) If a source ceases to fulfill the criteria of subsections (a) ~~or~~~~and/or~~ (b) ~~or both above, the requirements of~~ this Subpart ~~continues~~~~shall continue~~ to apply to a miscellaneous formulation manufacturing process emission unit which was subject to the control requirements of Section 218.946 ~~of this Part~~.
- d) ~~Limits~~~~No limits~~ under this Subpart ~~do not~~~~shall~~ apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to~~ 2.3 Mg (2.5 tons) ~~or less~~ per calendar year if the total emissions from ~~these~~~~such~~ emission units not complying with this Section ~~do~~~~does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For ~~the purposes of~~ this Subpart, an emission unit ~~is~~~~shall be~~ considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For ~~the purposes of~~ this Subpart, VOM emissions ~~without in the absence of~~ air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart QQ ~~do~~~~shall~~ not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before~~~~prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before~~~~prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.
- h) The control requirements of this Subpart ~~do~~~~shall~~ not apply to the solvation mixers at the container sealant manufacturing facility located at 6050 West 51st Street in

Chicago, ~~Illinois~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.946 Control Requirements

Every owner or operator of a miscellaneous formulation manufacturing process emission unit subject to this Subpart ~~must~~shall comply with ~~the requirements of~~ subsection (a) or (b) ~~below~~.

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least ~~81%~~81 percent from each emission unit, ~~or~~

~~(BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in a federally enforceable permit or as a SIP revision.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.947 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~shall comply with ~~those~~the requirements ~~thereof~~ on and after an applicable date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.948 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.946 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at ~~its~~this own expense, conduct ~~these~~such tests in compliance ~~accordance~~ with the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~.
- b) Nothing in this Section ~~limits~~shall limit the authority of ~~the~~ USEPA ~~under~~pursuant to the CAA ~~Clean Air Act~~, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING
PROCESSES

Section 218.960 Applicability

a) Maximum theoretical emissions:

- 1) A source is subject to this Subpart if it contains process emission units not regulated by Subparts B, E, F (excluding Section 218.204(l)), H (excluding Section 218.405), Q, R, S, T, (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~, which as a group both:

- A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM, and
- B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year ~~without in the absence of~~ air pollution control equipment through production or capacity limitations ~~contained in~~ a federally enforceable permit or a SIP revision.

- 2) If a source is subject to this Subpart ~~under subsection (a)(1) as provided above, the requirements of~~ this Subpart ~~applies shall apply~~ to a source's miscellaneous organic chemical manufacturing process emission units which are not included within any of the categories ~~specified in~~ Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, or BB ~~of this Part~~.

b) Potential to emit:

- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units, other than VOM leaks from components, that are:

- A) Not regulated by Subparts B, E, F, H, Q, R, S, T (excluding Section 218.486), V, X, Y, Z, or BB ~~of this Part~~, or
- B) Not included in one of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing,

VOL~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.

- 2) If a source is subject to this Subpart under subsection (b)(1) as provided above, ~~the requirements of~~ this Subpart applies~~shall apply~~ to a source's miscellaneous organic chemical manufacturing process emission units which are:
 - A) Not included within the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, or DD; ~~of this Part~~, or
 - B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.
- c) If a source ceases to fulfill the criteria of subsections (a) or~~and/or~~ (b) or both above, ~~the requirements of~~ this Subpart continues~~shall continue~~ to apply to a miscellaneous organic chemical manufacturing process emission unit which was subject to the control requirements of Section 218.966 ~~of this Part~~.
- d) Limits~~No limits~~ under this Subpart do not~~shall~~ apply to emission units with emissions of VOM to the atmosphere of less than or equal to 0.91 Mg (1.0 ton) or less per calendar year if the total emissions from these~~such~~ emission units not complying with Section 218.966 do~~of this Part does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.
- e) For ~~the purposes of~~ this Subpart, an emission unit is~~shall be~~ considered regulated by a Subpart if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.
- f) For ~~the purposes of~~ this Subpart, VOM emissions without in the absence of air pollution control equipment are the emissions of VOM which would result if no air pollution control equipment were used.
- g) The control requirements in Subpart RR do~~shall~~ not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet

engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source; and iron and steel production.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.966 Control Requirements

Every owner or operator of a miscellaneous organic chemical manufacturing process emission unit subject to this Subpart ~~must shall~~ comply with ~~the requirements of~~ subsection (a), (b), or (c) ~~of this Section.~~

- a) Emission capture and control techniques which achieve an overall reduction in uncontrolled VOM emissions of at least ~~81%81 percent~~ from each emission unit.;
~~or~~

~~(BOARD NOTE~~Board Note: For ~~the purpose of~~ this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) An equivalent alternative control plan which has been approved by the Agency and USEPA in a federally enforceable permit or as a SIP revision.
- c) Any leaks from components subject to the control requirements of this Subpart ~~must shall~~ be subject to the following control measures by March 15, 1995:
 - 1) Repair any component from which a leak of VOL can be observed. The repair ~~must shall~~ be completed as soon as practicable but ~~within no later than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the process unit is shut down, in which case the leaking component must be repaired before the unit is restarted.
 - 2) For any leak which cannot be readily repaired within one hour after detection, the following records ~~must, as set forth in this subsection, shall~~

be kept. These records ~~must~~shall be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made. Copies of the records ~~must~~shall be made available to the Agency or USEPA upon verbal or written request.

- A) The name and identification of the leaking component;
- B) The date and time the leak is detected;
- C) The action taken to repair the leak; and
- D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.967 Compliance Schedule

Every owner or operator of an emission unit subject to the control requirements of this Subpart ~~must~~shall comply with ~~the requirements of~~ this Subpart on and after ~~an applicable~~ date ~~under~~consistent with Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.968 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.966 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at ~~its~~his own expense, conduct ~~these~~such tests in ~~compliance~~accordance with the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~.

- b) Nothing in this Section ~~limit~~shall limit the authority of ~~the~~ USEPA ~~under~~pursuant to the ~~CAA~~Clean Air Act, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART TT: OTHER EMISSION UNITS

Section 218.980 Applicability

- a) Maximum theoretical emissions:
 - 1) A source is subject to this Subpart if it contains process emission units not

regulated by Subparts B, E, F (excluding Section 218.204(l) ~~of this Part~~), H (excluding Section 218.405 ~~of this Part~~), Q, R, S, T (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z, or BB ~~of this Part~~, which as a group both:

- A) Have maximum theoretical emissions of at least 90.7 Mg (100 tons) ~~or more~~ per calendar year of VOM; and
- B) Are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year without in the absence of air pollution control equipment, through production or capacity limitations ~~contained~~ in a federally enforceable permit or a SIP revision.

- 2) If a source is subject to this Subpart as provided in this Subpart, ~~the requirements of this Subpart~~ applies shall apply to a source's VOM emission units which are not included within any of the categories ~~specified~~ in Subparts B, E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, PP, QQ, or RR ~~of this Part~~ or which are not ~~exempt~~ exempted from permitting requirements under pursuant to 35 Ill. Adm. Code 201.146.

b) Potential to emit:

- 1) A source is subject to this Subpart if it has the potential to emit at least 22.7 Mg (25 tons) ~~or more~~ of VOM per year, in aggregate, from emission units, other than furnaces at glass container manufacturing sources and VOM leaks from components, that are:

- A) Not regulated by Subparts B, E, F, H, Q, R, S, T; (excluding Section 218.486 ~~of this Part~~), V, X, Y, Z, or BB ~~of this Part~~; or
- B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, VOL ~~volatile organic liquid~~ storage tanks, and clean-up solvents operations.

- 2) If a source is subject to this Subpart as provided under subsection (b)(1) above, ~~the requirements of this Subpart~~ applies shall apply to a source's VOM emission units; which are:

- A) Not included within any of the categories specified in Subparts B,

E, F, H, Q, R, S, T, V, X, Y, Z, AA, BB, CC, DD, PP, QQ, or RR of this Part, or which are not ~~exempt~~ exempted from permitting requirements ~~under~~ pursuant to 35 Ill. Adm. Code 201.146 (excluding Section 201.146(o) and (p)); or

B) Not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, wood furniture, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch processing, ~~VOL~~ volatile organic liquid storage tanks, and clean-up solvents operations.

c) If a source ceases to fulfill the criteria of subsections (a) ~~or and/or~~ (b) ~~or both of this Section, the requirements of~~ this Subpart ~~continues~~ shall continue to apply to an emission unit which was ever subject to the control requirements of Section 219.986 ~~of this Part~~.

d) ~~Limits~~ No limits under this Subpart ~~do not~~ shall apply to emission units with emissions of VOM to the atmosphere ~~of less than or equal to~~ 2.3 Mg (2.5 tons) ~~or less~~ per calendar year if the total emissions from ~~the such~~ emission units not complying with Section 219.986 ~~do of this Part does~~ not exceed 4.5 Mg (5.0 tons) per calendar year.

e) For ~~the purposes of~~ this Subpart, an emission unit ~~is~~ shall be considered regulated by a Subpart, if it is subject to the limits of that Subpart. An emission unit is considered not regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

f) The control requirements in Subpart TT ~~do~~ shall not apply to sewage treatment plants; vegetable oil extraction and processing; coke ovens (including by-product recovery plants); fuel combustion units; bakeries; barge loading facilities; jet engine test cells; production of polystyrene foam insulation board, including storage and extrusion of scrap where blowing agent is added to the polystyrene resin at the source, but not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene resin by the producer of the resin; production of polystyrene or polyethylene foam packaging, ~~but~~ not including blending and preliminary expansion of resin ~~before prior to~~ molding where blowing agent is incorporated into the polystyrene or polyethylene resin by the producer of the resin, and not including storage and extrusion of scrap where blowing agent is added to the polystyrene or polyethylene resin at the source; ~~and~~ iron and steel production; and furnaces at

glass container manufacturing sources.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.986 Control Requirements

Every owner or operator of an emission unit subject to this Subpart mustshall comply with ~~the requirements of~~ subsection (a), (b), (c), (d), or (e) ~~below~~.

- a) Emission capture and control equipment which achieves an overall reduction in uncontrolled VOM emissions of at least 81%81 percent from each emission unit, ~~or~~

(~~BOARD NOTE~~Board Note: For ~~the purpose of~~this provision, an emission unit is any part or activity at a source of a type that by itself is subject to control requirements in other Subparts of this Part or 40 CFR 60, incorporated by reference in Section 218.112, e.g., a coating line, a printing line, a process unit, a wastewater system, or other equipment, or is otherwise any part or activity at a source.)

- b) For coating lines, the daily-weighted average VOM content mustshall not exceed 0.42 kg VOM/l (3.5 lbs VOM/gal) of coating (~~excludingminus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied during any day. Owners and operators complying with this Section are not required to comply with Section 218.301 ~~of this Part, or~~

- c) An equivalent alternative control plan which has been approved by the Agency and ~~the~~ USEPA in federally enforceable permit or as a SIP revision.

- d) Non-contact process water cooling towers which are subject to the control requirements of this Subpart mustshall comply with the following control measures byno later than March 15, 1995, or upon initial start-up:

- 1) The owner or operator of a non-contact process water cooling tower mustshall perform the following actions to control emissions of ~~volatile organic material (VOM)~~ from ~~thesuch a~~ tower:

- A) Inspect and monitor ~~thesuch~~ tower to identify leaks of VOM into the water under, as further specified in subsection (d)(3) ~~below~~;

- B) When a leak is identified, initiate and carry out steps to identify the specific leaking component or components as soon as practicable under, as further specified in subsection (d)(4) ~~below~~.

- C) When a leaking component is identified which:
- i) Can be removed from service without disrupting production, remove the component from service;
 - ii) Cannot be removed from service without disrupting production, undertake repair of the component under subsection (d)(4) at the next reasonable opportunity to do so, including any period when the component is out of service for scheduled maintenance, ~~as further specified in subsection (d)(4) below;~~ and
- D) Maintain records of inspection and monitoring activities, identification of leaks and leaking components, elimination and repair of leaks, and operation of equipment as related to these activities under, as further specified in subsection (d)(5) ~~below.~~
- 2) A VOM leak mustshall be considered to exist in a non-contact process water cooling water system if the VOM emissions or VOM content exceed background levels as determined by monitoring conducted in complianceaccordance with subsection (d)(3)(A) ~~below.~~
- 3) The owner or operator of ~~aan~~ non-contact process water cooling tower mustshall carry out an inspection and monitoring program to identify VOM leaks in the cooling water system.
- A) The owner or operator of a non-contact process water cooling tower mustshall submit to the Agency a proposed monitoring program, accompanied by technical justification for the program, including justification for the sampling location(s), parameter(s) selected for measurement, monitoring and inspection frequency, and the criteria used relative to the monitored parameters to determine whether a leak exists as specified in subsection (d)(2) above.
- B) This inspection and monitoring program for non-contact process water cooling towers mustshall include, ~~but shall not be limited to:~~
- i) Monitoring ~~of each such~~ tower with a water flow rate of 25,000 gallons per minute or more at a petroleum refinery at least weekly, and monitoring ~~of~~ other towers at least monthly;

ii) Inspection of each ~~such~~ tower at least weekly if monitoring is not performed at least weekly.

C) This inspection and monitoring program ~~must~~shall be carried out in ~~compliance~~accordance with written procedures which the Agency ~~must~~shall specify as a condition in a federally enforceable operating permit. These procedures ~~must~~shall include the VOM background levels for the cooling tower as established by the owner or operator through monitoring; describe the locations at which samples will be taken; identify the parameter(s) to be measured, the frequency of measurements, and the procedures for monitoring each such tower, ~~including that is~~, taking ~~of~~ samples and other subsequent handling and analyzing of samples; provide the criteria used to determine that a leak exists ~~under as specified in~~ subsection (d)(2) ~~above~~; and describe the records which will be maintained.

D) A non-contact process water cooling tower is exempt from ~~the requirements of~~ subsections (d)(3)(B) and (d)(3)(C) ~~above~~ if all equipment where leaks of VOM into cooling water may occur is operated at a ~~minimum~~ pressure in the cooling water ~~of~~ at least 35 kPa greater than the maximum pressure in the process fluid.

4) The repair of a leak in a non-contact process water cooling tower ~~is~~shall ~~be~~ considered to be completed in an acceptable manner as follows:

A) Efforts to identify and locate the leaking components are initiated as soon as practicable, but ~~within in no event later than~~ three days after ~~detecting~~detection of the leak in the cooling water tower;

B) Leaking components ~~must~~shall be repaired or removed from service as soon as possible, but ~~within no later than~~ 30 days after ~~detecting~~ the leak in the cooling water tower ~~is detected~~, unless the leaking components cannot be repaired until the next scheduled shutdown for maintenance.

5) The owner or operator of a non-contact process water cooling tower ~~must~~shall keep records ~~under as set forth below in~~ this subsection. These records ~~must~~shall be retained at a readily accessible location at the source and ~~must~~shall be available for inspection and copying by the Agency for at least ~~three~~ years:

- 15247 A) Records of inspection and monitoring activity;
 15248
 15249 B) Records of each leak identified in asueh tower, with date, time, and
 15250 nature of observation or measured level of parameter;
 15251
 15252 C) Records of activity to identify leaking components, with date
 15253 initiated, summary of components inspected with dates, and
 15254 method of inspection and observations;
 15255
 15256 D) Records of activity to remove a leaking component from service or
 15257 repair a leaking component, with date initiated and completed,
 15258 description of actions taken, and the basis to determinefor
 15259 ~~determining~~ the leak in thesueh tower has been eliminated. If the
 15260 leaking component is not identified, repaired, or eliminated within
 15261 30 days after initially identifyingof initial identification of a leak in
 15262 thesueh tower, this report mustshall include specific reasons why
 15263 the leak could not be eliminated sooner, including all other
 15264 intervening periods when the process unit was out of service,
 15265 actions taken to minimize VOM losses before eliminatingprior to
 15266 elimination of the leak, and any actions taken to prevent the
 15267 recurrence of this type ofa leak ~~of this type~~.
 15268
 15269 6) The owner or operator of a non-contact process water cooling tower
 15270 mustshall submit to the Agency an annual report ~~to the Agency~~ which
 15271 provides:
 15272
 15273 A) The number of leaks identified in each cooling tower;
 15274
 15275 B) A general description of activity to repair or eliminate leaks which
 15276 were identified;
 15277
 15278 C) Identification of each leak which was not repaired withinin 30 days
 15279 afterfrom the date of identifyingidentification of a leak in thesueh a
 15280 tower, with description of the leaks and; explanation why the leak
 15281 was not repaired withinin 30 days; and
 15282
 15283 D) Identification of any periods when required inspection and
 15284 monitoring activities were not carried out.
 15285
 15286 e) Any leaks from components subject to the control requirements of this Subpart
 15287 mustshall be subject to the following control measures by March 15, 1995:
 15288
 15289 1) Repair any component from which a leak of VOL can be observed. The

repair ~~must~~shall be completed as soon as practicable but ~~within no later than~~ 15 days after the leak is found, unless the leaking component cannot be repaired until the next process unit shutdown, in which case the leaking component must be repaired before the unit is restarted.

- 2) For any leak which cannot be readily repaired within one hour after detection, the following records ~~must, as set forth below in this subsection,~~ shall be kept. These records ~~must~~shall be maintained by the owner or operator for ~~at least a minimum of~~ two years after the date on which they are made. Copies of the records ~~must~~shall be made available to the Agency or USEPA upon verbal or written request.

- A) The name and identification of the leaking component;
- B) The date and time the leak is detected;
- C) The action taken to repair the leak; and
- D) The date and time the leak is repaired.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.987 Compliance Schedule

Every owner or operator of an emissions unit which is subject to this Subpart ~~with the requirements of~~ mustshall comply on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.988 Testing

- a) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with Section 218.986 ~~of this Part~~, the owner or operator of a VOM emission unit subject to ~~the requirements of~~ this Subpart ~~must~~shall, at ~~its~~his own expense, conduct ~~thesuch~~ tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified in~~ Section 218.105 ~~of this Part~~.
- b) Nothing in this Section ~~limit~~shall limit the authority of ~~the~~ USEPA ~~underpursuant to~~ the ~~CAA~~Clean Air Act, as amended, to require testing.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

SUBPART UU: RECORDKEEPING AND REPORTING

Section 218.990 Exempt Emission Units

Upon request by the Agency, the owner or operator of an emission unit which is exempt from ~~the requirements of~~ Subparts PP, QQ, RR, TT, or Section 218.208(b) ~~must of this Part shall~~ submit records to the Agency within 30 calendar days ~~after from~~ the date of the request that document that the emission unit is exempt from those requirements.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.991 Subject Emission Units

- a) Any owner or operator of a VOM emission unit which is subject to ~~the requirements of~~ Subpart PP, QQ, RR, or TT and complying ~~through by the use of~~ emission capture and control equipment ~~must shall~~ comply with the following:
 - 1) By ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a new emission unit, the owner or operator of the subject VOM emission unit ~~must shall~~ demonstrate to the Agency that the subject emission unit will be in compliance on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date by submitting to the Agency all calculations and other supporting data, including descriptions and results of any tests the owner or operator may have performed.
 - 2) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject VOM source ~~must shall~~ collect and record all of the following information each day and maintain the information at the source for ~~a period of~~ three years:
 - A) Control device monitoring data.
 - B) A log of operating time for the capture system, control device, monitoring equipment, and the associated emission source.
 - C) A maintenance log for the capture system, control device, and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages.
 - 3) On and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of~~

~~this Part~~, the owner or operator of a subject VOM emission source ~~mustshall~~ notify the Agency:

- A) Of any violation of ~~the requirements of~~ Subpart PP, QQ, RR, or TT by sending a copy of any record showing a violation to the Agency within 30 days ~~after following the occurrence of~~ the violation;
- B) At least 30 calendar days before changing the method of compliance with Subpart PP or TT from ~~using the use of~~ capture systems and control devices to ~~using compliant the use of~~ ~~complying~~ coatings, the owner or operator ~~mustshall~~ comply with all requirements of subsection (b)(1) ~~above~~. ~~After Upon~~ changing the method of compliance with Subpart PP or TT from ~~using the use of~~ capture systems and control devices to ~~using compliant the use of~~ ~~complying~~ coatings, the owner or operator ~~mustshall~~ comply with all requirements of subsection (b) ~~above~~.

4) Testing.

- A) When in the opinion of the Agency it is necessary to conduct testing to demonstrate compliance with this Subpart, the owner or operator of a VOM emission source subject to ~~the requirements of~~ this Subpart ~~mustshall~~, at ~~its~~his own expense, conduct ~~the such~~ tests in ~~compliance accordance~~ with the applicable test methods and procedures ~~specified in Section 218.105 of this Part~~.
- B) Nothing in this Section ~~limits shall limit~~ the authority of ~~the~~ USEPA ~~under pursuant to~~ the ~~CAA Clean Air Act~~, as amended, to require testing.

b) Any owner or operator of a coating line which is subject to ~~the requirements of~~ Subpart PP or TT and complying ~~through by means of~~ the daily-weighted average VOM content limitation ~~mustshall~~ comply with the following:

- 1) By ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or upon initial start-up of a coating line subject to Subpart PP or TT, the owner or operator of the subject coating line ~~mustshall~~ certify to the Agency that the coating line will be in compliance on and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date. ~~The Such~~ certification ~~mustshall~~ include:
 - A) The name and identification number of each coating line which will comply ~~through the by means of~~ daily-weighted average VOM

content limitation;

- B) The name and identification number of each coating as applied on each coating line;
- C) The weight of VOM per volume and the volume of each coating (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line;
- D) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line;
- E) The method by which the owner or operator will create and maintain records each day as required in subsection (b)(2)~~-above~~; and
- F) An example of the format in which the records required in subsection (b)(2)~~-above~~ will be kept.

2) On and after ~~an applicable~~~~ea~~ date ~~undereonsistent with~~ Section 218.106~~-of this Part~~, or on and after the initial start-up date, the owner or operator of a subject coating line ~~mustshall~~ collect and record all of the following information each day for each coating line and maintain the information at the source for~~-a period of~~ three years:

- A) The name and identification number of each coating as applied on each coating line;
- B) The weight of VOM per volume and the volume of each coating (~~excluding~~~~minus~~ water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; and
- C) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104~~-of this Part~~.

3) On and after ~~an applicable~~~~ea~~ date ~~undereonsistent with~~ Section 218.106~~-of this Part~~, the owner or operator of a subject coating line ~~mustshall~~ notify the Agency:

- 15462 A) Of a violation of ~~the requirements of~~ Subpart PP or TT by sending
 15463 a copy of any record showing a violation to the Agency within 30
 15464 days ~~after following the occurrence of~~ the violation.;
- 15465
- 15466 B) At least 30 calendar days before changing the method of
 15467 compliance with Subpart PP or TT from ~~using compliant~~ ~~the use of~~
 15468 ~~complying~~ coatings to ~~using the use~~ capture systems and control
 15469 devices, the owner or operator ~~mustshall~~ comply with ~~all~~
 15470 ~~requirements of~~ subsection (a)(1) ~~above~~. ~~After~~ ~~Upon~~ changing the
 15471 method of compliance with Subpart PP or TT from ~~using~~
 15472 ~~compliant~~ ~~the use of~~ ~~complying~~ coatings to ~~using the use~~ capture
 15473 systems and control devices, the owner or operator ~~mustshall~~
 15474 comply with ~~all requirements of~~ subsection (a) ~~above~~.
- 15475
- 15476 c) Any owner or operator of a VOM source which is subject to ~~the requirements of~~
 15477 Subpart PP, QQ, RR, or TT and complying ~~throughby means of~~ an equivalent
 15478 alternative control plan which has been approved by the Agency and ~~the~~ USEPA
 15479 in a federally enforceable permit or as a SIP revision ~~mustshall~~ comply with the
 15480 recordkeeping and reporting requirements ~~specified~~ in the alternative control plan.
- 15481
- 15482 d) Any owner or operator of a leather coating operation, i.e., the group of all coating
 15483 lines at a source engaged ~~applying in application of~~ stain to leather other than
 15484 specialty leather; ~~or~~ the group of all coating lines at a source engaged in applying
 15485 coatings, including stain, to a category of specialty leather; ~~or~~ the group of all
 15486 coating lines at a source engaged ~~applying in application of~~ coatings to leather
 15487 complying ~~throughby means of~~ the VOM content of each gallon of coating as
 15488 applied, which is subject to ~~the requirements of~~ Subpart PP, ~~and which is~~
 15489 complying ~~underby means of~~ Section 218.926(b)(2)(A), (B), or (C)(i),
 15490 respectively, ~~must of this Part shall~~ comply with the following:
- 15491
- 15492 1) By ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~,
 15493 or upon initial start-up of a leather coating operation which is complying
 15494 ~~underby means of~~ Section 218.926(b)(2)(A), (B) or (C)(i) ~~of this Part~~, the
 15495 owner or operator of the subject leather coating operation ~~mustshall~~ certify
 15496 to the Agency that the leather coating operation will be in compliance on
 15497 and after ~~an applicable~~ date ~~undereonsistent with~~ Section 218.106 ~~of this~~
 15498 ~~Part~~, or on and after the initial start-up date. ~~The~~ ~~Such~~ certification
 15499 ~~mustshall~~ include:
- 15500
- 15501 A) A description of the leather coating operation, including
 15502 identification of the applicable requirement with which it will
 15503 comply, i.e., Section 218.926(b)(2)(A), (B), or (C)(i) ~~of this Part~~;
- 15504

- 15505 B) A description of the types of leather produced and a demonstration
15506 that all leather produced qualifies as specialty leather and is in a
15507 single category of specialty leather, if the leather coating operation
15508 is complying ~~underby means of~~ Section 218.926(b)(2)(B) ~~of this~~
15509 ~~Part~~;
- 15510
15511 C) The name and identification number of each coating line in the
15512 leather coating operation;
- 15513
15514 D) The name, identification number, and type, i.e., stain or "other," of
15515 each coating as applied in the leather coating operation;
- 15516
15517 E) The weight of VOM per volume as applied and the volume of each
15518 coating as applied in the leather coating operation on a monthly
15519 basis, if the leather coating operation is complying ~~underby means~~
15520 ~~of~~ Section 218.296(b)(2)(A) or (B) ~~of this Part~~, or otherwise the
15521 weight of VOM per volume of coating as applied (~~excluding minus~~
15522 water and any compounds which are specifically exempted from
15523 the definition of VOM);
- 15524
15525 F) The production of leather in square feet on a monthly basis,
15526 including the number of each leather item produced and the area of
15527 ~~thesuch~~ item, if the leather coating operation is complying ~~underby~~
15528 ~~means of~~ Section 218.926(b)(2)(B);
- 15529
15530 G) A demonstration that the leather coating operation complies with
15531 the applicable requirement among Section 218.926(b)(2)(A) or (B)
15532 ~~of this Part~~, if applicable, expressed in the terms of ~~thesuch~~
15533 requirement, i.e., total tons of VOM contained in stain coatings
15534 other than stain coating during a consecutive 12-month period or lb
15535 VOM/1000 square feet of specialty leather produced on a monthly
15536 basis, accompanied by the calculations by which it was
15537 determined;
- 15538
15539 H) The instrument or method by which the owner or operator will
15540 accurately measure or calculate the volume of each coating as
15541 applied in the leather coating operation on a monthly basis, if the
15542 leather coating operation is complying ~~underby means of~~ Section
15543 218.926(b)(2)(A) or (B);
- 15544
15545 I) The instrument or method by which the owner or operator will
15546 accurately measure or calculate the area of such category of leather
15547 produced on a monthly basis, if the leather coating operation is

complying ~~underby means of~~ Section 218.926(b)(2)(B);

J) The method by which the owner or operator will create and maintain monthly records as required in subsection (d)(2) ~~below~~; and

K) An example of the format in which the records required in subsection (d)(2) ~~below~~ will be kept.

2) On and after ~~an applicable~~ a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, or on and after the initial start-up date, the owner or operator of a subject leather coating operation ~~mustshall~~ collect and record all of the following information for the leather coating operation on a monthly basis and maintain the information at the source for ~~a period of~~ three years:

A) The name, identification number, and type of each coating as applied in the leather coating operation;

B) Records of the leather produced in the leather coating operation which identify all leather produced in the operation and confirm it qualifies as the specified category of specialty leather, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(B) ~~of this Part~~;

C) The weight of VOM per volume and the volume of each coating as applied in the leather coating operation on a monthly basis determined in ~~complianceaccordance~~ with ~~the procedures described pursuant to~~ Section 218.991(d)(1)(H) ~~above~~ if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(A) or (B), or otherwise the greatest weight of VOM per volume of coating as applied (~~excludingminus~~ water and any compounds which are specifically exempted from the definition of VOM);

D) The production of leather in square feet on a monthly basis, including the number of each leather item produced and the area of ~~eachsuch~~ item determined in ~~complianceaccordance~~ with ~~the procedures described pursuant to~~ Section 218.991(d)(1)(I) ~~above~~ and ~~as set forth as~~ a federally enforceable permit condition, if the leather coating operation is complying ~~underby means of~~ Section 218.926(b)(2)(B) ~~of this Part~~; ~~and~~

E) A demonstration that the leather coating operation complies with

the applicable requirement among Section 218.926(b)(2)(A) or (B) of this Part, if applicable, expressed in the terms of ~~the~~such requirement, i.e., total tons of VOM contained in stain coatings other than stain coating during a consecutive 12-month period or lb VOM/1000 square feet of specialty leather produced on a monthly basis, accompanied by the calculations by which it was determined.

- 3) On and after ~~an applicable~~a date ~~undereonsistent with~~ Section 218.106 ~~of this Part~~, the owner or operator of a subject leather coating operation ~~must~~shall notify the Agency:
- A) Of any violation of ~~the requirements of~~ Subpart PP by sending a copy of any record showing a violation to the Agency within 30 days ~~after following the occurrence of~~ the violation;
 - B) At least 30 calendar days before changing the method of compliance with Subpart PP from ~~using compliant~~the use of complying coatings to ~~using~~the use capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator ~~must~~shall comply with ~~all requirements of~~ subsection (a)(1) or (b)(1) ~~above~~, respectively. ~~After~~Upon changing the method of compliance with Subpart PP from ~~using compliant~~the use of complying coatings to ~~using~~the use capture systems and control devices or daily-weighted average VOM content limitation, the owner or operator ~~must~~shall comply with ~~all requirements of~~ subsection (a) or (b) ~~above~~, respectively.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

15621 **Section 218.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and**
 15622 **Polymer Manufacturing**
 15623

<u>CAS No.^a</u>	<u>Chemical</u>
105-57-7	Acetal
75-07-0	Acetaldehyde
107-89-1	Acetaldol
60-35-5	Acetamide
103-84-4	Acetanilide
64-19-7	Acetic acid
108-24-7	Acetic anhydride
67-64-1	Acetone
75-86-5	Acetone cyanohydrin
75-05-8	Acetonitrile
98-86-2	Acetophenone
75-36-5	Acetyl chloride
74-86-2	Acetylene
107-02-8	Acrolein
79-06-1	Acrylamide
79-10-7	Acrylic acid & esters
107-13-1	Acrylonitrile
124-04-9	Adipic acid
111-69-3 ^(b)	Adiponitrile
^(b)	Alkyl naphthalenes
107-18-6	Allyl alcohol
107-05-1	Allyl chloride
1321-11-5	Aminobenzoic acid
111-41-1	Aminoethylethanolamine
123-30-8	p-aminophenol
628-63-7, 123-92-2	Amyl acetates
71-41-0 ^c	Amyl alcohols
110-58-7	Amyl amine
543-59-9	Amyl chloride
110-68-7 ^c	Amyl mercaptans
1322-06-1	Amyl phenol
62-53-3	Aniline
142-04-1	Aniline hydrochloride
29191-52-4	Anisidine
100-66-3	Anisole
118-92-3	Anthranilic acid
84-65-1	Anthraquinone
100-52-7	Benzaldehyde
55-21-0	Benzamide

JCAR5099350218P

71-43-2
98-48-6

Benzene
Benzenedisulfonic acid

15624

<u>CAS No.^a</u>	<u>Chemical</u>
98-11-3	Benzenesulfonic acid
134-81-6	Benzil
76-93-7	Benzilic acid
65-85-0	Benzoic acid
119-53-9	Benzoin
100-47-0	Benzonitrile
119-61-9	Benzophenone
98-07-7	Benzotrichloride
98-88-4	Benzoyl chloride
100-51-6	Benzyl alcohol
100-46-9	Benzylamine
120-51-4	Benzyl benzoate
100-44-7	Benzyl chloride
98-87-3	Benzyl dichloride
92-52-4	Biphenyl
80-05-7	Bisphenol A
10-86-1	Bromobenzene
27497-51-4	Bromonaphthalene
106-99-0	Butadiene
106-98-9	l-butene
123-86-4	n-butyl acetate
141-32-2	n-butyl acrylate
71-36-3	n-butyl alcohol
78-92-2	s-butyl alcohol
75-65-0	t-butyl alcohol
109-73-9	n-butylamine
13952-84-6	s-butylamine
75-64-9	t-butylamine
98-73-7	p-tert-butyl benzoic acid
107-88-0	1,3-butylene glycol
123-72-8	n-butyraldehyde
107-92-6	Butyric acid
106-31-0	Butyric anhydride
109-74-0	Butyronitrile
105-60-2	Caprolactam
75-1-50	Carbon disulfide
558-13-4	Carbon tetrabromide
55-23-5	Carbon tetrachloride
9004-35-7	Cellulose acetate
79-11-8	Chloroacetic acid
108-42-9	m-chloroaniline
95-51-2	o-chloroaniline

106-47-8	p-chloroaniline
35913-09-8	Chlorobenzaldehyde
<u>CAS No.^a</u>	<u>Chemical</u>
108-90-7	Chlorobenzene
118-91-2, 535-80-8, 74-11-3 ^c	Chlorobenzoic acid
2136-81-4, 2136-89-2, 5216-25-1 ^c	Chlorobenzotrichloride
1321-03-5	Chlorobenzoyl chloride
75-45-6	Chlorodifluoroethane
25497-29-4	Chlorodifluoromethane
67-66-3	Chloroform
25586-43-0	Chloronaphthalene
88-73-3	o-chloronitrobenzene
100-00-5	p-chloronitrobenzene
25167-80-0	Chlorophenols
126-99-8	Chloroprene
7790-94-5	Chlorosulfonic acid
108-41-8	m-chlorotoluene
95-49-8	o-chlorotoluene
106-43-4	p-chlorotoluene
75-72-9	Chlorotrifluoromethane
108-39-4	m-cresol
95-48-7	o-cresol
106-44-5	p-cresol
1319-77-3	Mixed cresols
1319-77-3	Cresylic acid
4170-30-0	Crotonaldehyde
3724-65-0	Crontonic acid
98-82-8	Cumene
80-15-9	Cumene hydroperoxide
372-09-8	Cyanoacetic acid
506-77-4	Cyanogen chloride
108-80-5	Cyanuric acid
108-77-0	Cyanuric chloride
110-82-7	Cyclohexane
108-93-0	Cyclohexanol
108-94-1	Cyclohexanone
110-83-8	Cyclohexene
108-91-8	Cyclohexylamine
111-78-4	Cyclooctadiene
112-30-1	Decanol
123-42-2	Diacetone alcohol
27576-04-1	Diaminobenzoic acid

95-76-1, 95-82-9,
554-00-7, 608-27-5,
608-31-1, 626-43-7,
27134-27-6, 57311-92-9^c
541-73-1
95-50-1
106-46-7
75-71-8
CAS No.^a

111-44-4
107-06-2
96-23-1
26952-23-8
101-83-7
109-89-7
111-46-6
112-36-7
111-96-6
112-34-5
124-17-7
111-90-0
112-15-2
111-77-3
64-67-5
75-37-6
25167-70-8
26761-40-0
27554-26-3
674-82-8
124-40-3
121-69-7
115-10-6
68-12-2
57-14-7
77-78-1
75-18-3
67-68-5
120-61-6
99-34-3
51-28-5

123-91-1
646-06-0

Dichloroaniline

m-dichlorobenzene
o-dichlorobenzene
p-dichlorobenzene
Dichlorodifluoromethane
Chemical

Dichloroethyl ether
1,2-dichloroethane (EDC)
Dichlorohydrin
Dichloropropene
Dicyclohexylamine
Diethylamine
Diethylene glycol
Diethylene glycol diethyl ether
Diethylene glycol dimethyl ether
Diethylene glycol monobutyl ether
Diethylene glycol mononbutyl ether acetate
Diethylene glycol monoethyl ether
Diethylene glycol monoethyl ether acetate
Diethylene glycol monomethyl ether
Diethyl sulfate
Difluoroethane
Diisobutylene
Diisodecyl phthalate
Diisooctyl phthalate
Diketene
Dimethylamine
N,N-dimethylaniline
N,N-dimethyl ether
N,N-dimethylformamide
Dimethylhydrazine
Dimethyl sulfate
Dimethyl sulfide
Dimethyl sulfoxide
Dimethyl terephthalate
3,5-dinitrobenzoic acid
Dinitrophenol
Dinitrotoluene
Dioxane
Dioxilane

122-39-4	Diphenylamine
101-84-4	Diphenyl oxide
102-08-9	Diphenyl thiourea
25265-71-8	Dipropylene glycol
25378-22-7	Dodecene
28675-17-4	Dodecylaniline
27193-86-8	Dodecylphenol
106-89-8	Epichlorohydrin
64-17-5	Ethanol
141-43-5 ^c	Ethanolamines
141-78-6	Ethyl acetate
<u>CAS No.^a</u>	<u>Chemical</u>
141-97-9	Ethyl acetoacetate
140-88-5	Ethyl acrylate
75-04-7	Ethylamine
100-41-4	Ethylbenzene
74-96-4	Ethyl bromide
9004-57-3	Ethylcellulose
75-00-3	Ethyl chloride
105-39-5	Ethyl chloroacetate
105-56-6	Ethylcyanoacetate
74-85-1	Ethylene
96-49-1	Ethylene carbonate
107-07-3	Ethylene chlorohydrin
107-15-3	Ethylenediamine
106-93-4	Ethylene dibromide
107-21-1	Ethylene glycol
111-55-7	Ethylene glycol diacetate
110-71-4	Ethylene glycol dimethyl ether
111-76-2	Ethylene glycol monobutyl ether
112-07-2	Ethylene glycol monobutyl ether acetate
110-80-5	Ethylene glycol monoethyl ether
111-15-9	Ethylene glycol monoethyl ether acetate
109-86-4	Ethylene glycol monoethyl ether
110-49-6	Ethylene glycol monomethyl ether acetate
122-99-6	Ethylene glycol monophenyl ether
2807-30-9	Ethylene glycol monopropyl ether
75-21-8	Ethylene oxide
60-29-7	Ethyl ether
104-76-7	2-ethylhexanol
122-51-0	Ethyl orthoformate
95-92-1	Ethyl oxalate
41892-71-1	Ethyl sodium oxaloacetate

50-00-0	Formaldehyde
75-12-7	Formamide
64-18-6	Formic acid
110-17-8	Fumaric acid
98-01-1	Furfural
56-81-5	Glycerol (Synthetic)
26545-73-7	Glycerol dichlorohydrin
25791-96-2	Glycerol triether
56-40-6	Glycine
107-22-2	Glyoxal
118-74-1	Hexachlorobenzene
67-72-1	Hexachloroethane
36653-82-4	Hexadecyl alcohol
124-09-4	Hexamethylenediamine
<u>CAS No.^a</u>	<u>Chemical</u>
629-11-8	Hexamethylene glycol
100-97-0	Hexamethylenetetramine
74-90-8	Hydrogen cyanide
123-31-9	Hydroquinone
99-96-7	p-hydroxybenzoic acid
26760-64-5	Isoamylene
78-83-1	Isobutanol
110-19-0	Isobutyl acetate
115-11-7	Isobutylene
78-84-2	Isobutyraldehyde
79-31-2	Isobutyric acid
25339-17-7	Isodecanol
26952-21-6	Isooctyl alcohol
78-78-4	Isopentane
78-59-1	Isophorone
121-91-5	Isophthalic acid
78-79-5	Isoprene
67-63-0	Isopropanol
108-21-4	Isopropyl acetate
75-31-0	Isopropylamine
75-29-6	Isopropyl chloride
25168-06-3	Isopropylphenol
463-51-4	Ketene
^b	Linear alkyl sulfonate*
123-01-3	Linear alkylbenzene
110-16-7	Maleic acid
108-31-6	Maleic anhydride
6915-15-7	Malic acid

141-79-7
 121-47-1
 79-41-4
 563-47-3
 67-56-1
 79-20-9
 105-45-3
 74-89-5
 100-61-8
 74-83-9
 37365-71-2
 74-87-3
 108-87-2
 1331-22-2
 75-09-2
 101-77-9
 101-68-8
CAS No.^a

78-93-3
 107-31-3
 108-11-2
 108-10-1
 80-62-6
 77-75-8
 98-83-9
 110-91-8
 85-47-2
 120-18-3
 90-15-3
 135-19-3
 75-98-9
 88-74-4
 100-01-6
 91-23-6
 100-17-4
 98-95-3
 27178-83-2^c
 79-24-3
 75-52-5
 88-75-5
 25322-01-4
 1321-12-6
 27215-95-8

Mesityl oxide
 Metanilic acid
 Methacrylic acid
 Methallyl chloride
 Methanol
 Methyl acetate
 Methyl acetoacetate
 Methylamine
 n-methylaniline
 Methyl bromide
 Methyl butynol
 Methyl chloride
 Methyl cyclohexane
 Methyl cyclohexanone
 Methylene chloride
 Methylene dianiline
 Methylene diphenyl diisocyanate
Chemical

Methyl ethyl ketone
 Methyl formate
 Methyl isobutyl carbinol
 Methyl isobutyl ketone
 Methyl methacrylate
 Methylpentynol
 B-methylstyrene
 Morpholine
 a-naphthalene sulfonic acid
 B-naphthalene sulfonic acid
 a-naphthol
 B-naphthol
 Neopentanoic acid
 o-nitroaniline
 p-nitroaniline
 o-nitroanisole
 p-nitroanisole
 Nitrobenzene
 Nitrobenzoic acid (o, m & p)
 Nitroethane
 Nitromethane
 Nitrophenol
 Nitropropane
 Nitrotoluene
 Nonene

25154-52-3	Nonylphenol
27193-28-8	Octylphenol
123-63-7	Paraldehyde
115-77-5	Pentaerythritol
109-66-0	n-pentane
109-67-1	l-pentene
127-18-4	Perchloroethylene
594-42-3	Perchloromethyl mercaptan
94-70-2	o-phenetidine
156-43-4	p-phenetidine
108-95-2	Phenol
98-67-9, 585-38-6, 609-46-1, 133-39-7 ^c	Phenolsulfonic acids
91-40-7	Phenyl anthranilic acid
(b)	Phenylenediamine
75-44-5	Phosgene
85-44-9	Phthalic anhydride
85-41-6	Phthalimide
108-99-6	b-picoline
110-85-0	Piperazine
9003-29-6, 25036-29-7 ^c	Polybutenes
<u>CAS No.^a</u>	<u>Chemical</u>
25322-68-3	Polyethylene glycol
25322-69-4	Polypropylene glycol
123-38-6	Propionaldehyde
79-09-4	Propionic acid
71-23-8	n-propyl alcohol
107-10-8	Propylamine
540-54-5	Propyl chloride
115-07-1	Propylene
127-00-4	Propylene chlorohydrin
78-87-5	Propylene dichloride
57-55-6	Propylene glycol
75-56-9	Propylene oxide
110-86-1	Pyridine
106-51-4	Quinone
108-46-3	Resorcinol
27138-57-4	Resorcylic acid
69-72-7	Salicylic acid
127-09-3	Sodium acetate
532-32-1	Sodium benzoate
9004-32-4	Sodium carboxymethyl cellulose
3926-62-3	Sodium chloroacetate

141-53-7	Sodium formate
139-02-6	Sodium phenate
110-44-1	Sorbic acid
100-42-5	Styrene
110-15-6	Succinic acid
110-61-2	Succinitrile
121-57-3	Sulfanilic acid
126-33-0	Sulfolane
1401-55-4	Tannic acid
100-21-0	Terephthalic acid
78-00-2	Tetra ethyl lead
79-34-5 ^c	Tetrachloroethanes
117-08-8	Tetrachlorophthalic anhydride
78-00-2	Tetraethyllead
119-64-2	Tetrahydronaphthalene
85-43-8	Tetrahydrophthalic anhydride
75-74-1	Tetramethyl lead Tetramethyllead
110-60-1	Tetramethylenediamine
110-18-9	Tetramethylethylenediamine
108-88-3	Toluene
95-80-7	Toluene-2,4-diamine
584-84-9	Toluene-2,4-diisocyanate
26471-62-5	Toluene diisocyanates (mixture)
1333-07-9	Toluene sulfonamide
104-15-4 ^c	Toluenesulfonic acids
<u>CAS No.^a</u>	<u>Chemical</u>
98-59-9	Toluene sulfonyl chloride
26915-12-8	Toluidines
87-61-6, 108-70-3, 120-82-1 ^c	Trichlorobenzenes
71-55-6	1,1,1-trichloroethane
79-00-5	1,1,2-trichloroethane
79-01-6	Trichloroethylene
75-69-4	Trichlorofluoromethane
96-18-4	1,2,3-trichloropropane
76-13-1	1,1,2-trichloro-1,2,2-trifluoroethane
121-44-8	Triethylamine
112-27-6	Triethylene glycol
112-49-2	Triethylene glycol dimethylglycol dimethyl
	ether
7756-94-7	Triisobutylene
75-50-3	Trimethylamine
57-13-6	Urea
108-05-4	Vinyl acetate

75-01-4	Vinyl chloride
75-35-4	Vinylidene chloride
25013-15-4	Vinyl toluene
1330-20-7	Xylenes (mixed)
95-47-6	o-xylene
106-42-3	p-xylene
1300-71-6	Xylenol
1300-73-8	Xylidine
(b)	methyl tert-butyl ether
9002-88-4	Polyethylene
(b)	Polypropylene
9009-53-6	Polystyrene

a) CAS numbers refer to the Chemical Abstracts ~~Registry~~ ~~Registry~~ numbers assigned to specific chemicals, isomers, or mixtures of chemicals. Some isomers or mixtures that are covered by the standards do ~~not~~ have CAS numbers assigned to them. The standards apply to all ~~of~~ the chemicals listed, whether CAS numbers have been assigned and listed or not.

b) ~~No~~ CAS number(s) have not been assigned to this chemical, ~~to~~ its isomers, or mixtures containing these chemicals.

c) ~~CAS numbers for some of the isomers are listed; the standards apply to all of the isomers and mixtures, even if CAS numbers have not been assigned.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218. APPENDIX C Reference Methods and Procedures

Introduction

This Appendix presents the reference methods and procedures required for implementing Reasonably Available Control Technology (RACT). Methods and procedures are identified for two types of RACT implementation:

a) ~~Determining~~ ~~Determination of~~ VOM destruction efficiency to evaluate for ~~evaluating~~ compliance with the 98% by weight ~~98-weight percent~~ VOM reduction or 20 ppmv emission limit ~~specified~~ in Sections 218.520 through 218.527 ~~of this Part~~; and

b) ~~Determining~~ ~~Determination of~~ offgas flowrate, hourly emissions, and stream net heating value to calculate for ~~calculating~~ TRE.

All reference methods identified in this Appendix refer to the reference methods ~~specified~~ at 40 CFR ~~60. Appendix 60, Appendix~~ A, incorporated by reference in Section 218.112 ~~of this Part~~.

VOM DESTRUCTION EFFICIENCY DETERMINATION

The following reference methods and procedures are required ~~to determine~~for determining compliance with the percent destruction efficiency ~~specified~~ in Sections 218.520 through 218.527 ~~of this Part~~.

- a) Reference Method 1 or 1A ~~to select~~for selection of the sampling site. The control device inlet sampling site ~~to determine~~for determination of vent stream molar composition or total organic compound destruction efficiency ~~must~~shall be ~~before~~prior to the inlet of any control device and after all recovery devices.
- b) Reference Methods 2, 2A, 2C_x or 2D ~~to determine~~for determination of the volumetric flowrate.
- c) Reference Method 3 to measure oxygen concentration of the air dilution correction. The emission sample ~~must~~shall be corrected to ~~3%3 percent~~ oxygen.
- d) Reference Method 18 to determine the concentration of total organic compounds (~~excluding~~minus methane and ethane) in the control device outlet and total organic compound reduction efficiency of the control device.

TRE DETERMINATION

The following reference methods and procedures are required ~~to determine~~for determining the offgas flowrate, hourly emissions, and the net heating value of the gas combusted to calculate the vent stream TRE.

- a) Reference Method 1 or 1A ~~to select~~for selection of the sampling site. The sampling site for the vent stream flowrate and molar composition ~~determinations~~determination prescribed in subsections (b) and (c) ~~must~~shall be ~~before~~prior to the inlet of any combustion device, ~~before~~prior to any post-reactor dilution of the stream with air, and ~~before~~prior to any post-reactor introduction of halogenated compounds into the vent stream. Subject to the preceding restrictions on the sampling site, it ~~must~~shall be after the final recovery device. If any gas stream other than the air oxidation vent stream is normally conducted through the recovery system of the affected facility, ~~the~~such stream ~~must~~shall be rerouted or turned off while the vent stream is sampled, but ~~must~~shall be routed normally ~~before~~prior to the measuring ~~of~~ the initial value of the monitored parameters ~~to determine~~for determining compliance with the recommended RACT. If the air oxidation vent stream is normally routed through any equipment which is not a

part of the air oxidation process as defined in 35 Ill. Adm. Code 211.350, ~~the such~~ equipment ~~must shall~~ be bypassed by the vent stream while the vent stream is sampled, but ~~must shall~~ not be bypassed ~~while measuring during the measurement~~ of the initial value of the monitored parameters ~~to determine for determining~~ compliance with Subpart V.

- b) The molar composition of the vent stream ~~must shall~~ be determined using the following methods:
- 1) Reference Method 18 to measure the concentration of all organics, including those containing halogens, unless a significant portion of the compounds of interest are polymeric (high molecular weight), can polymerize before analysis, or have low vapor pressures, in which case Reference Method 25(a) ~~must shall~~ be used.
 - 2) ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography ~~D1946-67 (reapproved 1977)~~, incorporated by reference in Section ~~215.105218.112 of this Part~~, to measure the concentration of carbon monoxide and hydrogen.
 - 3) Reference Method 4 to measure the content of water vapor, if necessary.
- c) The volumetric flowrate ~~must shall~~ be determined using Reference Method 2, 2A, 2C, or 2D, as appropriate.
- d) The net heating value of the vent stream ~~must shall~~ be calculated using the following equation:

$$H = K \sum_{i=1}^n C_i H_i$$

where:

H = Net heating value of the sample, MJ/ppm, where the net enthalpy per mole of offgas is based on combustion at ~~25 °C 25° C~~ and 760 ~~mmHg mmHg~~, but the standard temperature ~~to determine for determining~~ the volume corresponding to one mole is ~~20 °C 20° C~~, as in the definition of F (vent stream flowrate) ~~in subsection (e) below~~

K = Constant, ~~1.740 x 10⁻⁷ (ppm)⁻¹ x 10⁻⁷ (1/ppm)~~ (mole/scm) (MJ/kcal), where standard temperature for mole/scm is ~~20 °C 20° C~~

C_i = Concentration of sample component i, reported on a wet basis, in ppm, as measured by Reference Method 18 or ASTM D1946-90 (2019) – Standard Practice ofr Analysis of Reformed Gas by Gas Chromatography~~D1946-67 (reapproved 1977)~~, incorporated by reference in Section 215.105218.112~~of this Part~~.

H_i = Net heat of combustion of sample component i, kcal/mole based on combustion at 25 °C~~25° C~~ and 760 mmHg~~mmHg~~. If published values are not available or cannot be calculated, the heats of combustion of vent stream components must~~are required to~~ be determined using ASTM D4809-18~~D2382-76~~, incorporated by reference in Section 218.112~~of this Part~~.

- e) The emission rate of total organic compounds in the process vent stream must~~shall~~ be calculated using the following equation:

$$E = K F \sum_{i=1}^n C_i M_i$$

Where:

E = Emission rate of total organic compounds (excluding~~minus~~ methane and ethane) in the sample in kg/hr;

K = Constant, $2.494 \times 10^{-6} (\text{ppm})^{-1}$ ~~$2.494 \times 10^{-6} (1/\text{ppm})$~~ (mole/scm) (kg/g) (min/hr), where standard temperature for mole/scm is 20 °C~~20° C~~;

M_i = Molecular weight of sample component I (g/mole)

F = Vent stream flow rate (scm/min), at a standard temperature of 20 °C~~20° C~~.

- f) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) must~~shall~~ be summed from the individual concentrations of compounds containing halogens which were measured by Reference Method 18.

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX D Coefficients for the Total Resource Effectiveness (TRE) Index (TRE) Equation

This Appendix contains values for the TRE~~total resource effectiveness~~ index-(TRE) equation in Subpart V.

If a flow rate falls exactly on the boundary between the indicated ranges, the operator must~~shall~~ use the row in which the flow rate is maximum.

COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS WITH NET HEATING VALUE LESS THAN OR EQUAL TO 3.5 MJ/scm

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.0	13.5	48.73	0.	0.404	-0.1632	0.	0.
13.5	700.	42.35	0.624	0.404	-0.1632	0.	0.0245
700.	1400.	84.38	0.678	0.404	-0.1632	0.	0.0346
1400.	2100.	126.41	0.712	0.404	-0.1632	0.	0.0424
2100.	2800.	168.44	0.747	0.404	-0.1632	0.	0.0490
2800.	3500.	210.47	0.758	0.404	-0.1632	0.	0.0548

COEFFICIENTS FOR TRE EQUATION FOR CHLORINATED PROCESS VENT STREAMS WITH NET HEATING VALUE GREATER THAN 3.5 MJ/scm

FLOW RATE

(scm/min)

Min.	Max.	a	b	c	d	e	f
0.	13.5	47.76	0.	-0.292	0.	0.	0.
13.5	700.	41.58	0.605	-0.292	0.	0.	0.0245
700.	1400.	82.84	0.658	-0.292	0.	0.	0.0346
1400.	2100.	123.10	0.691	-0.292	0.	0.	0.0424
2100.	2800.	165.36	0.715	-0.292	0.	0.	0.0490
2800.	3500.	206.62	0.734	-0.292	0.	0.	0.0548

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT STREAMS WITH NET HEATING VALUE LESS THAN OR EQUAL TO 0.48 MJ/Scm

FLOW RATE

(scm/min)							
Min.	Max.	a	b	c	d	e	f
0.	13.5	19.05	0.	0.113	-0.214	0.	0.
13.5	1350.	16.61	0.239	0.113	-0.214	0.	0.0245
1350.	2700.	32.91	0.260	0.113	-0.214	0.	0.0346
2700.	4050.	49.21	0.273	0.113	-0.214	0.	0.0424

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 0.48 AND LESS THAN OR
EQUAL TO 1.9 MJ/scm

FLOW RATE (scm/min)							
Min.	Max.	a	b	c	d	e	f
0.	13.5	19.74	0.	0.400	-0.202	0.	0.
13.5	1350.	18.30	0.138	0.400	-0.202	0.	0.0245
1350.	2700.	36.28	0.150	0.400	-0.202	0.	0.0346
2700.	4050.	54.26	0.158	0.400	-0.202	0.	0.0424

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 1.9 AND LESS THAN OR
EQUAL TO 3.6 MJ/scm

FLOW RATE (scm/min)							
Min.	Max.	a	b	c	d	e	f
.0	13.5	15.24	0.	0.033	0.	0.	0.
13.5	1190.	13.63	0.157	0.033	0.	0.	0.0245
1190.	2380.	26.95	0.171	0.033	0.	0.	0.0346
2380.	3570.	40.27	0.179	0.033	0.	0.	0.0424

COEFFICIENTS FOR TRE EQUATION FOR NONCHLORINATED PROCESS VENT
STREAMS WITH NET HEATING VALUE GREATER THAN 3.6 MG/scm

FLOW RATE (scm/min)							
Min.	Max.	a	b	c	d	e	f

0.	13.5	15.24	0.	0.	0.0090	0.	0.
13.5	1190.	13.63	0.	0.	0.0090	0.0503	0.0245
1190.	2380.	26.95	0.	0.	0.0090	0.0546	0.0346
2380.	3570.	40.27	0.	0.	0.0090	0.0573	0.0424

15785
15786
15787

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX E List of Affected Marine Terminals

The following table identifies the expected ~~volatile organic material~~ (VOM) emission reductions, in pounds per day in 1996, from the control of the marine vessel loading of gasoline and crude oil from the listed sources, their successors, and ~~their~~ assigns. ~~The Such~~ reduction of VOM emissions must occur after November 1990 and ~~must~~~~may~~ not include reductions resulting from compliance with any federally required controls or from any measures included in any ~~SIP~~~~State Implementation Plan~~ adopted by the State of Illinois to satisfy any other ~~CAA~~~~Clean Air Act~~ requirement.

<u>Facility</u>	<u>Permit/Source</u>	<u>Reduction</u>
Mobil-Joliet Refining Corp. Facility ID# 197800AAA	88010021045	1,595
Texaco Refining Facility ID # 197810AAA	84050048007	541
UNO-VEN Company Facility ID # 197090AAI	88010019055	549

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX G TRE Index Measurements for SOCM I Reactors and Distillation Units

For ~~purposes of Subpart Q,~~ Sections 218.431 through 218.435, the following apply:

- a) The following test methods ~~must~~shall be used to determine compliance with the ~~total resource effectiveness ("TRE")~~ index value:
 - 1) Method 1 or 1A, incorporated by reference at Section 218.112 ~~of this Part,~~ as appropriate, ~~to select for selection of~~ the sampling site.
 - A) The sampling site for the vent stream molar composition determination and flow rate ~~prescribed~~ in subsections (a)(2) and (a)(3) ~~must of this Appendix shall~~ be, except for the situations ~~outlined~~ in subsection (a)(1)(B), after the final recovery device, if a recovery system is present, ~~before prior to~~ the inlet of any control device, and ~~before prior to~~ any post-reactor or post-distillation unit introduction of halogenated compounds into the vent stream. ~~A~~No traverse site selection method is not needed for vents smaller than 10 cm in diameter.
 - B) If any gas stream other than the reactor or distillation unit vent stream is normally conducted through the final recovery device:
 - i) The sampling site for vent stream flow rate and molar composition ~~must~~shall be ~~before prior to~~ the final recovery device and ~~before prior to~~ the point at which any nonreactor or nondistillation unit vent stream or stream from a nonaffected reactor or distillation unit is introduced. Method 18, incorporated by reference at Section 218.112 ~~of this Part,~~ ~~must~~shall be used to measure organic compound concentrations at this site.
 - ii) The efficiency of the final recovery device is determined by measuring the organic compound concentrations using Method 18, incorporated by reference at Section 218.112 ~~of this Part,~~ at the inlet to the final recovery device after the introduction of all vent streams and at the outlet of the final recovery device.
 - iii) The efficiency of the final recovery device determined according to subsection (a)(1)(B)(ii) ~~must of this Appendix shall~~ be applied to the organic compound concentrations

measured according to subsection (a)(1)(B)(i)-~~of this Appendix~~ to determine the concentrations of organic compounds from the final recovery device attributable to the reactor or distillation unit vent stream. The resulting organic compound concentrations are then used to perform the calculations-~~outlined~~ in subsection (a)(4)-~~of this Appendix~~.

- 2) The molar composition of the vent stream mustshall be determined as follows:
 - A) Method 18, incorporated by reference at Section 218.112-~~of this Part~~, to measure the concentration of organic compounds, including those containing halogens;
 - B) ASTM D1946-90 (2019) – Standard Practice for Analysis of Reformed Gas by Gas Chromatography~~D1946-77~~, incorporated by reference at Section 215.105218.112 of this Part, to measure the concentration of carbon monoxide and hydrogen; and
 - C) Method 4, incorporated by reference at Section 218.112-~~of this Part~~, to measure the content of water vapor.
- 3) The volumetric flow rate mustshall be determined using Method 2, 2A, 2C, or 2D, incorporated by reference at Section 218.112-~~of this Part~~, as appropriate.
- 4) The emission rate of VOM (~~excludingminus~~ methane and ethane) (E_{VOM}) in the vent stream mustshall be calculated using the following formula:

$$E_{VOM} = K_2 \sum_{j=1}^n C_j M_j Q_s$$

where:

E_{VOM} =	Emission rate of VOM (~~excludingminus~~ methane and ethane) in the sample, kg/hr.
K_2 =	Constant, 2.494×10^{-6} (~~ppm~~) ⁻¹ (~~l/ppmv~~) (g-mole/scm) (kg/g) (min/hr), where standard temperature for (g-mole/scm) is <u>20 °C</u> ~~20° C~~ .
C_j =	Concentration of compound j, on a dry basis, in ppmv as

measured by Method 18 incorporated by reference at 218.112 ~~of this Part~~, as indicated in Section 218.433(c)(3) ~~of this Part~~.

M_j = Molecular weight of sample j, g/g-mole.

Q_s = Vent stream flow rate (scm) at a temperature of 20 °C~~20°C~~ ~~°C~~.

5) The total vent stream concentration (by volume) of compounds containing halogens (ppmv, by compound) ~~must~~shall be summed from the individual concentrations of compounds containing halogens which were measured by Method 18, incorporated by reference at Section 218.112 ~~of this Part~~.

6) The net heating value of the vent stream ~~must~~shall be calculated using the following:

$$H_T = K_l \sum_{j=1}^n C_j H_j (1 - B_{ws})$$

where:

H_T = Net heating value of the sample (MJ/scm), where the net ~~enthalpy~~enthalpy per mole of vent stream is based on combustion of 25 °C~~25°C~~ and 760 ~~mmHg~~mmHG, but the standard temperature ~~to determine~~for determining the volume corresponding to one mole is 20 °C~~20°C~~, as in the definition of Q_s (vent stream flow rate).

K_l = Constant, 1.740×10^{-7} (ppmv)⁻¹ (g-mole/scm); ~~(MJ/kcal)~~(MJ/KCal), where standard temperature for (g-mole/scm) is 20 °C~~20°C~~.

B_{ws} = Water vapor content of the vent stream, proportion by volume; except that if the vent stream passes through a final stream jet and is not condensed, it ~~must~~shall be assumed that $B_{ws} = 0.023$ ~~in order to correct to~~ 2.3%~~2.3 percent~~ moisture.

C_j = Concentration on a dry basis of compound j in ppmv, as measured for all organic compounds by Method 18, incorporated by reference at Section 218.112 ~~of this Part~~, and measured for hydrogen and carbon monoxide by using ASTM D1946-90 (2019) – Standard Practice for Analysis of Reforemd Gas by Gas ChromatographyD1946-77, incorporated by reference at Section 215.105218.112 of this Part.

H_j = Net heat of combustion of compound j, ~~kcal/g-molekCal/g-mole~~, based on combustion at 25 °C25 °C and 760 ~~mmHgmmHG~~. The heats of combustion of vent stream components ~~mustshall~~ be determined using ASTM D4809-18D2382-83, incorporated by reference at Section 218.112 ~~of this Part~~, if published values are not available or cannot be calculated.

- b)
- 1) The TRE index value of the vent ~~mustshall~~ be calculated using the following:

$$TRE = \frac{1[a + b(Q_s) + c(H_T) + d(E_{VOM})]}{E_{VOM}}$$

where:

TRE = TRE index value.

E_{VOM} = Hourly emission rate of VOM (kg/hr) as calculated in subsection (a)(4) ~~of this Appendix~~.

Q_s = Vent stream flow rate scm/min at a standard temperature of 20 °C20 °C.

H_T = Vent stream net heating value (MJ/scm), as calculated in subsection (a)(6) ~~of this Appendix~~.

E_{VOM} = Hourly emission rate of VOM (~~excludingminus~~ methane and ethane), (kg/hr), as calculated in subsection (a)(4) ~~of this Appendix~~.

a,b,c,d = Value of coefficients presented below are:

Value of Coefficients

Type of Stream	Control Device Basis	a	b	c	d
Nonhalogenated	Flare	2.129	0.183	-0.005	0.359
Thermal incinerator, <u>0% zero (0) Percent</u> heat recovery		3.075	0.021	-0.037	0.018
Thermal incinerator, <u>70% 70 Percent</u> heat recovery		3.803	0.032	-0.042	0.007
Halogenated	Thermal incinerator and scrubber	5.470	0.181	-0.040	0.004

- 2) Every owner or operator of a vent stream mustshall use the applicable coefficients identified for values a, b, c, and d in subsection (b)(1)-~~of this Appendix~~ to calculate the TRE index value based on a flare, a thermal incinerator with 0%zero (0) percent heat recovery, and a thermal incinerator with 70%70 percent heat recovery, and mustshall select the lowest TRE index value.
- 3) Every owner or operator of a reactor or distillation unit with a halogenated vent stream, determined as any stream with a total concentration of halogen atoms contained in organic compounds of 200 ppmv or greater, mustshall use the applicable coefficients identified for values a, b, c, and d in subsection (b)(1)-~~of this Appendix~~ to calculate the TRE index value based on a thermal incinerator and scrubber.

- c) Every owner or operator of a source seeking to comply with Section 218.432(b) mustof this Part shall recalculate the flow rate and VOM concentration for each affected vent stream whenever process changes are made. Examples of process changes include, ~~but are not limited to,~~ changes in production capacity, feedstock type, or catalyst type, or whenever recovery equipment is replaced, removed, or addedthere is replacement, removal, or addition of recovery equipment. The flow rate and VOM concentration mustshall be recalculated based on test data, or on

best engineering estimates of the effects of the change to the recovery system.

- d) Whenever a process change, as defined in Section 218.435(c) ~~of this Subpart~~, yields a TRE index value of 1.0 or less, the owner or operator mustshall notify and submit a report to the Agency ~~under according to the requirements specified in~~ Section 218.435(c) ~~of this Subpart~~, within 180 calendar days after the process change and mustshall conduct a performance test ~~under according to the methods and procedures required by~~ Section 218.433 ~~of this Part~~.
- e) ~~To determine~~ For the purpose of demonstrating that a process vent stream has a VOM concentration below 500 ppmv, the following mustshall be used:
 - 1) The sampling site mustshall be selected as ~~specified~~ in Section 218.433(c)(1) ~~of this Part~~.
 - 2) Method 18 or Method 25A of 40 CFR Part ~~60. Appendices A-6 and A-760, Appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~, mustshall be used to measure concentration.; ~~Alternatively alternatively~~, any other method or data that has been validated according to the protocol in Method 301 of 40 CFR ~~63. Appendix Part 63, Appendix A~~, incorporated by reference at Section 218.112 ~~of this Part~~, may be used.
 - 3) ~~If Where~~ Method 18 is used, the following procedures mustshall be used to calculate ppmv concentration:
 - i) The minimum sampling time for each run mustshall be ~~one~~ hour, in which either an integrated sample or four grab samples mustshall be taken. If grab sampling is used, then the samples mustshall be taken at approximately equal intervals in time, such as ~~15-minute~~ 15 minute intervals during the run.
 - ii) The concentration of VOM mustshall be calculated using Method 18 according to Section 218.433(c)(4) ~~of this Part~~.
 - 4) ~~If Where~~ Method 25A is used, the following procedures mustshall be used to calculate ppmv VOM concentration:
 - i) Method 25A mustshall be used only if a single VOM is greater than ~~50% 50 percent~~ of total VOM, by volume, in the process vent stream.
 - ii) The vent stream composition may be determined by either process knowledge, test data collected using an appropriate Reference

Method, or a method of data collection validated according to the protocol in Method 301 of 40 CFR ~~63. Appendix Part 63, Appendix A, incorporated by reference at Section 218.112 of this Part.~~

Examples of information that constitute process knowledge include calculations based on material balances, process stoichiometry, or previous test results ~~if provided~~ the results are still relevant to the current process vent stream conditions.

- iii) The VOM used as the calibration gas for Method 25A ~~must~~ be the single VOM present at greater than ~~50%~~ of the total VOM by volume.
 - iv) The span value for Method 25A ~~must~~ be 50 ppmv.
 - v) Use of Method 25A is acceptable if the response from the high-level calibration gas is at least 20 times the standard deviation of the response from the zero calibration gas when the instrument is zeroed on the most sensitive scale.
 - vi) The concentration of VOM ~~must~~ be corrected to ~~3%~~ oxygen using the procedures and equation in Section 218.433(c)(3) ~~of this Part.~~
- 5) The owner or operator ~~must~~ demonstrate that the concentration of VOM, including methane and ethane, measured by Method 25A is below 250 ppmv to qualify for the low concentration exclusion in Section 218.431 ~~of this Part.~~

(Source: Amended at 50 Ill. Reg. _____, effective _____)

Section 218.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

This Appendix contains limitations ~~to determine for purposes of determining~~ compliance with ~~the requirements in~~ Section 218.212 ~~of this Part~~. A source must establish that, at ~~the~~ very least, each participating coating line used for ~~purposes of~~ cross-line averaging meets the ~~FIP~~ Federal Implementation Plan level of VOM content, ~~as~~ listed below. The emission limitations for participating coating lines that must not be exceeded are ~~as follows~~:

a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal
1)	Prime coat	0.14	(1.2)
2)	Primer surface coat	1.81	(15.1)

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation ~~mustshall~~ be based on the daily-weighted average from an entire primer surface operation. Compliance ~~mustshall~~ be demonstrated in ~~complianceaccordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b) and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~mustshall~~ be performed in ~~complianceaccordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surface limitation.)

		kg/l	lb/gal
3)	Topcoat	1.81	(15.1)

(Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation ~~mustshall~~ be based on the daily-weighted average from an entire topcoat operation. Compliance ~~mustshall~~ be demonstrated in ~~complianceaccordance~~ with the topcoat protocol ~~referenced~~ in Section 218.105(b) ~~of this Part~~ and the recordkeeping and reporting requirements ~~specified~~ in Section 218.211(f). Testing to demonstrate compliance ~~mustshall~~ be performed in ~~complianceaccordance~~ with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 ~~of this Part~~ does not apply to the topcoat limitation.)

		kg/l	lb/gal
4)	Final repair coat	0.58	(4.8)

b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.34	(2.8)
3)	Interior body spray coat	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)
c)	Paper Coating	kg/l	lb/gal
		0.35	(2.9)

(Note: The paper coating limitation ~~does~~shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 218.401 ~~of this Part~~. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT ~~of this Part~~.)

		kg/l	lb/gal
d)	Coil Coating	0.31	(2.6)
e)	Fabric Coating	0.35	(2.9)
f)	Vinyl Coating	0.45	(3.8)
g)	Metal Furniture Coating		
1)	Air Dried	0.36	(3.0)
2)	Baked	0.36	(3.0)
h)	Large Appliance Coating		
1)	Air Dried	0.34	(2.8)
2)	Baked	0.34	(2.8)

(Note: The limitation ~~does~~shall not apply to ~~using~~the use of quick-drying lacquers ~~to for~~ repair ~~of~~ scratches and nicks that occur during assembly, ~~if provided that~~ the volume of coating ~~is does not exceed~~ 0.95 l (1 quart) or less in any one rolling eight-hour period.)

		kg/l	lb/gal

i)	Magnet Wire Coating	0.20	(1.7)
j)	Miscellaneous Metal Parts and Products Coating		
1)	Clear coating	0.52	(4.3)
2)	Extreme performance coating		
A)	Air Dried	0.42	(3.5)
B)	Baked	0.42	(3.5)
3)	Steel pail and drum interior coating	0.52	(4.3)
4)	All other coatings		
A)	Air Dried	0.42	(3.5)
B)	Baked	0.36	(3.0)
k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
2)	Extreme performance ~~topcoat~~ ~~coat~~ (air dried)	0.42	(3.5)
3)	Final repair coat (air dried)	0.42	(3.5)
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) ~~above.~~		
l)	Wood Furniture Coating	kg/l	lb/gal
1)	Clear topcoat	0.67	(5.6)
2)	Opaque stain	0.56	(4.7)
3)	Pigmented coat	0.60	(5.0)
4)	Repair coat	0.67	(5.6)
5)	Sealer	0.67	(5.6)
6)	Semi-transparent stain	0.79	(6.6)
7)	Wash coat	0.73	(6.1)

(Note: An owner or operator of a wood furniture coating operation subject to this Section ~~must~~shall apply all coatings, ~~with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations,~~ using at least one ~~or more of~~ the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray

16049 application system, roller coating, brush or wipe coating application system, dip
 16050 coating application system, or high volume low pressure (HVLP) application
 16051 system. Touch-up and repair operations must not exceed 37.8 l (10 gal) of
 16052 coating used per day.)
 16053

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
2)	Extreme performance topcoat	0.42	(3.5)
3)	Final repair coat (air dried)	0.42	(3.5)
4)	High temperature aluminum coating	0.72	(6.0)
5)	All other coatings	0.36	(3.0)

16054	n)	Plastic Parts Coating: Automotive/Transportation	kg/l	lb/gal
	1)	Interiors		
		A) Baked		
		i) Color coat	0.49	(4.1)
		ii) Primer	0.46	(3.8)
		B) Air Dried		
		i) Color coat	0.38	(3.2)
		ii) Primer	0.42	(3.5)
	2)	Exteriors (flexible and non-flexible)		
		A) Baked		
		i) Primer	0.60	(5.0)
		ii) Primer nonflexible	0.54	(4.5)
		iii) Clear coat	0.52	(4.3)
		iv) Color coat	0.55	(4.6)
		B) Air Dried		
		i) Primer	0.66	(5.5)
		ii) Clear coat	0.54	(4.5)
		iii) Color coat (red & black)	0.67	(5.6)
		iv) Color coat (others)	0.61	(5.1)

3)	Specialty		
A)	Vacuum metallizing basecoats, texture basecoats	0.66	(5.5)
B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings	0.71	(5.9)
C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats	0.77	(6.4)
D)	Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings	0.82	(6.8)
E)	Head lamp lens coatings	0.89	(7.4)
o)	Plastic Parts Coating: Business Machine	kg/l	lb/gal
1)	Primer	0.14	(1.2)
2)	Color coat (non-texture coat)	0.28	(2.3)
3)	Color (texture coat)	0.28	(2.3)
4)	Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings	0.48	(4.0)
5)	Specialty coatings		
A)	Soft coat	0.52	(4.3)
B)	Plating resist	0.71	(5.9)
C)	Plating sensitizer	0.85	(7.1)*

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(Source: Amended at 50 Ill. Reg. _____, effective _____)