# ILLINOIS REGISTER

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FEB , 3 2010

# POLLUTION CONTROL BOARD

# NOTICE OF PROPOSED AMENDMENTS

- 1) <u>Heading of the Part</u>: Organic Material Emission Standards and Limitations for the Chicago Area
- 2) <u>Code Citation</u>: 35 Ill. Adm. Code 218

in the

3)	Section Numbers:	Proposed Action:	STATE OF ILLINOIS
	218.106	Amend	Pollution Control Board
	218.181	Amend	
	218.187	New	
	218.204	Amend	
	218.205	Amend	
	218.207	Amend	
	218.210	Amend	
	218.211	Amend	
	218.212	Amend	
	218.217	Amend	
	218.401	Amend	
	218.402	Amend	
	218.403	Amend	
	218.404	Amend	
	218.405	Amend	
	218.406	Repeal	
	218.407	Amend	
	218.408	Repeal	
	218.409	Amend	
	218.410	Amend	
	218.411	Amend	
	218.412	New	
	218.413	New	
	218.415	New	
	218.416	New	
	218.417	New	

- 4) <u>Statutory authority</u>: Implementing Sections 21, 22, 22.01 and 22.9, and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/21, 22, 22.01, 22.9, 27]
- 5) <u>A complete description of the subjects and issues involved</u>: The Illinois Environmental Protection Agency (Agency) proposed this rulemaking to satisfy Illinois' obligation to submit a State Implementation Plan addressing Clean Air Act requirements for sources of

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volatile organic material (VOM) emissions in ozone nonattainment areas. The United States Environmental Protection Agency (USEPA) issued Control Techniques Guidelines (CTG) for Group II Consumer and Commercial Product Categories. In the CTG, USEPA recommended control measures that it believes constitute reasonably available control technology (RACT) for those product categories.

For a more detailed description of this rulemaking, see the Board's January 7, 2010, firstnotice opinion and order: Reasonably Available Control Technology (RACT) for Volatile Organic Material Emissions from Group II Consumer & Commercial Products: Proposed Amendments to 35 Ill. Adm. Code 211, 218, and 219. (R10-08)

# 6) <u>Published studies or reports, and sources of underlying data, used to compose this</u> rulemaking:

The Agency's regulatory proposal included a Technical Support Document, which stated that it relied on sources listed below. Copies of the documents the Agency relied upon are available for review with the Pollution Control Board.

Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2006.

Control Techniques Guidelines for Flexible Package Printing, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2006.

Control Techniques Guidelines: Industrial Cleaning Solvents, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2006.

Control Techniques Guidelines for Flat Wood Paneling Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2006.

Technical Support Document for Controlling VOM Emissions from Lithographic Printing Operations, Illinois Environmental Protection Agency, Air Quality Planning Section, Springfield, IL, October 1994.

Control Techniques Guideline Series: Control of Volatile Organic Compound Emissions from Offset Lithographic Printing (DRAFT), United States Environmental Protection

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Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 1993.

- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) <u>Does this rulemaking contain incorporations by reference</u>? No
- 10) Are there any other amendments pending on this Part? Yes

Sections Numbers:	Proposed Actions:	Illinois Register Citation:
218.106	Amended	33 Ill. Reg. 16399; November 20, 2009
218.204	Amended	33 Ill. Reg. 16399; November 20, 2009
218.205	Amended	33 Ill. Reg. 16399; November 20, 2009
218.207	Amended	33 Ill. Reg. 16399; November 20, 2009
218.210	Amended	33 Ill. Reg. 16399; November 20, 2009
218.211	Amended	33 Ill. Reg. 16399; November 20, 2009
218.212	Amended	33 Ill. Reg. 16399; November 20, 2009
218.218	Amended	33 Ill. Reg. 16399; November 20, 2009

- 11) <u>Statement of Statewide Policy Objectives</u>: This proposed rule does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b) (2008)].
- 12) <u>Time, Place and Manner in which interested persons may comment on this proposed</u> <u>rulemaking</u>: The Board will accept written public comment on this proposal for a period of 45 days after the date of this publication. Comments should reference docket R10-08 and be addressed to:

Clerk's Office Illinois Pollution Control Board State of Illinois Center, Suite 11-500 100 W. Randolph St. Chicago, IL 60601

- Address all questions to Tim Fox at 312-814-6085.

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Interested persons may request copies of the Board's opinion and order by calling the Clerk's office at 312-814-3620, or download them from the Board's Web site at www.ipcb.state.il.us.

- 13) <u>Initial regulatory flexibility analysis</u>:
  - A) <u>Types of small businesses, small municipalities, and not-for-profit corporations</u> <u>affected</u>: This rulemaking will impact any small business, small municipality, and not-for-profit corporation that falls within one of the Group III Product Categories and meets the applicability thresholds specified in the proposed rules.
  - B) <u>Reporting, bookkeeping or other procedures required for compliance</u>: The proposed rules require that the owner or operator of a subject source perform emissions monitoring, submit certifications, complete required tests, and maintain records and maker reports as required.
  - C) <u>Types of professional skills necessary for compliance</u>: No professional skills beyond those currently required by the existing state and federal air pollution control requirements applicable to affected sources will be required.
- 14) Regulatory Agenda on which this rulemaking was summarized January 2009

The full text of the Proposed Amendments begins on the next page:

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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

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TY: Implementing Section 10 and authorized by Sections 27,27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, and 28].

Adopted at R91-7 at 15 III. Reg. 12231, effective August 16, 1991; amended in R91-24 at 16 III. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 III. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 III. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 III. Reg. at 1945, effective January 24, 1994; amended in R94-12 at 18 III. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 III. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 III. Reg. 16950, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 III. Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 III. Reg. 7359, effective May 22, 1995; amended in R96-13 at 20 III. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21 III. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 III. Reg. 3556, effective February 2, 1998; amended in R98-16 at 22 III. Reg. 14282, effective July 16, 1998; amended in R02-20 at 27 III. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 III. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 III. Reg. 7086, effective April 30, 2007; amended in R10-808-8 at 32. III. Reg. 14874, effective August 26, 2008; amended in R10-8 at 34 III. Reg. \_\_\_\_\_\_\_, effective

SUBPART A: GENERAL PROVISIONS

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)(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)
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 Sections 218.106(a) or 218.106(b), as applicable.

- 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(p) of this Part shall comply with the requirements in Section 218.204(p), as well as all applicable requirements in Sections 218.205 through 218.211, 218.214, and <u>218.217,218.217</u> by May 1, 2010.

(Source: Amended at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

# SUBPART E: SOLVENT CLEANING

#### Section 218.181 Solvent Cleaning Degreasing Operationsin General 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 volatile organic materials.

(Source: Amended at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

#### Section 218.187 Other Industrial Solvent Cleaning Operations

- a) Applicability. On and after April 1, 2011:
- Except as provided in subsection (a)(2) of this Section, the requirements of this Section shall apply to all cleaning operations which that use organic materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of VOM from cleaning operations at the source, in the absence of air pollution control equipment. 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) Notwithstanding subsection (a)(1) of this Section:
- A) The following cleaning operations shall be exempt from the requirements of subsections (b), (c), (d), (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, including screen reclamation activities;
  - 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 source categories shall be exempt from the requirements of subsections
   (b), (c), (d), (f), and (g) of this Section:

i) Aerospace coating;

ii)Flexible package printing;

- iii) Lithographic printing;
- iv) Letterpress printing;

v) Flat wood paneling coating;

- vi) Large appliance coating;
- vii) Metal furniture coating;
- viii) Paper, film, and foil coating;
  - ix) Wood furniture coating;
  - x) Shipbuilding and repair coating;
    - xi) Plastic parts coating;

- xii) Miscellaneous metal parts coating;
  - xiii) Fiberglass boat manufacturing;
- xiv) Miscellaneous industrial adhesives; and
- xv) Auto and light-duty truck assembly coating;
- C) The following cleaning operations 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;
  - 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 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 facilities using no more than 1.5 gallons per day of solvents;
  - 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 utilized to manufacture transdermal drug delivery products using no more than 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 solventborne 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 1.5 gallons per day of solvents for such cleaning;
- xiv) Cleaning of metering rollers, dampening rollers, and printing plates;
  - xv) Cleaning of numismatic dies; and
- xvi) Cleaning operations associated with digital printing.
- b) Material and Control Requirements. No owner or operator of a source subject to this Section 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):
  - The VOM content of the as-used cleaning solutions (minus water and any compounds <u>whichthat</u> are specifically exempted from the definitions of VOM) does not exceed the following emissions limitations:

A) Product cleaning during ma	nufacturing
process or surface preparation for	r coating,
adhesive, or ink application	on:

		<u>g/l lb/gal</u>
7	lectrical apparatus components and electronic components	<u>.10 0.83</u>
i)	edical device and pharmaceutical manufacturing B) Repair and	<u>.80 6.7</u>
mainter	ance cleaning:	g/l lb/gal
3	lectrical apparatus components and electronic components	<u>.10 0.83</u>
ij	edical device and pharmaceutical manufacturing	<u>.80 6.7</u>

ij	edical device and pharmaceutical manufacturing general work surfaces C) Cleaning of ink	<u>.60</u>	<u>5.0</u>
applic	ation equipment:	<u>g/1</u>	lb/gal
2	otogravure printing that does not print flexible packaging	.10	<u>0.83</u>
Ð	creen printing	.50	4.2
ii)	ltraviolet ink and electron beam ink application equipment, except screen printing	.65	<u>5.4</u>
<u>v)</u>	lexographic printing that does not print flexible packaging	.10	<u>0.83</u>

kg/ł	_11	b/gal
	and the second se	0

i) <u>Electrical apparatus components</u> and electronic components

<u>0.83</u>

ii) <u>Medical device and</u> <u>pharmaceutical manufacturing</u> - 0.80 - 6.7

> ii) <u>Medical device and</u> pharmaceutical manufacturing: tools, equipment, and machinery - 0.80 - 6.7

> > iii) <u>Medical device and</u> pharmaceutical manufacturing: general work surfaces 0.60 5.0

<u>C)</u> <u>Cleaning of ink application equipment:</u>

kg/llb/gal

i) Rotogravure printing

that does not print flexible 0.10 .83 packaging Screen printing ii) 04.20.50 Ultraviolet ink and electron beam iii) ink application equipment, except screen printing <u>0.65</u> <u>5.4</u> <del>iv)</del> Flexographic printing that does not print flexible packaging 0.10 0.83 D) All other cleaning operations not-<u>kg/l</u> 1b/gal 0.050 0.42 subject to a specific limitation in subsections (b)(1)(A) through (b)(1)(C) of this Section <del>0.050</del> 0.42

 The composite vapor pressure of each as-used cleaning solution used does not exceed 8.0 mmHg measured at 20° C (68° F); or

3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85 percent overall. The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if such device reduces VOM emissions from the subject cleaning operation by at least 85 percent overall, the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for such control device, and such plan is approved by the Agency and USEPA within federally enforceable permit conditions.

c) The owner or operator of a subject source 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 shall comply with the following for each subject cleaning operation:

- 1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;
- 2) Minimize air circulation around the cleaning operation;
- Dispose of all used cleaning solutions, cleaning towels, and applicators used to apply cleaning solvents in closed containers;
  - 4) Utilize equipment practices that minimize emissions.
    - e) Recordkeeping and Reporting Requirements.
- The owner or operator of a source exempt from the limitations of this Section because of the criteria in Section 218.187(a)(1) of this Subpart shall comply with the following:
  - A) By April 1, 2011, 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 Section 218.187(a)(1);
    - Calculations which that demonstrate that combined emissions of VOM from cleaning operations at the source never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment;
  - B) Notify the Agency of any record that shows that the combined emissions of VOM from cleaning operations at the source ever equal or exceed 6.8 kg/day (15 lbs/day), 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 shall:
  - A) By April 1, 2011, 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 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 <u>method(s)methods</u> 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 Section 218.187(d); and
- vii) A description of each cleaning operation exempt pursuant to Section 218.187(a)(2), if any, and a listing of the emission <u>unit(s)units</u> on which the exempt cleaning operation is performed;
- B) At least 30 calendar days before changing the method of compliance between subsections (b)(1) or (b)(2)<sub>3</sub> and subsection (b)(3) of this Section, notify the Agency in writing of such change.
   <u>Such-The</u> notification shall include a demonstration of compliance with the newly applicable subsection;
- All sources complying with this Section pursuant to the requirements of subsection (b)(1) of this Section shall collect and record the following information for each cleaning solution used:
  - A) For each cleaning solution which 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;
    - 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 which 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 such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part;
- All sources complying with this Section pursuant to the requirements of subsection (b)(2) 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 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 asused cleaning solution; and
- E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 218.110 of this Part;
- All sources complying with this Section pursuant to the requirements of subsection (b)(3) of this Section shall comply with the following:
  - A) By April 1, 2011, 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 Section 218.187(f) of this Subpart has been properly installed and calibrated according to manufacturer's specifications;
    - ) If testing of an emissions control system is conducted pursuant to Section 218.187(g) of this Subpart, the owner or operator shall, within 90 days after conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:
      - A declaration that all tests and calculations necessary to demonstrate compliance with Section 218.187(b)(3) of this Subpart have been properly performed;
      - A statement whether the subject cleaning operation is or is not in compliance with Section 218.187(b)(3) of this Subpart; and
      - iii) The operating parameters of the emissions control system during testing, as monitored in accordance with Section 218.187(f) of this Subpart;
    - C) Collect and record daily the following information for each cleaning operation subject to the requirements of Section 218.187(b)(3) of this Subpart:
      - i) Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;
      - A log of operating time for the emissions control system, monitoring equipment, and the associated cleaning equipment;

B)

- 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<sup>2</sup>'s specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records 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;
  - 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 as a result of the incident;
- 6) All sources subject to the requirements of subsections (b) and (d) of this Section shall notify the Agency of any violation of subsectionssubsection (b) or (d) by providing a description of the violation and copies of records documenting such the violation to the Agency within 30 days following the occurrence of the violation;
  - All records required by this subsection (e) shall be retained by the source for at least three years and shall be made available to the Agency upon request.

f) Monitoring Requirements.

- If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.187(b)(3) of this Subpart shall:
  - A) Install, calibrate, operate, and maintain temperature monitoring device(s)devices with an accuracy of 3° C or 5° F on the emissions control system in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and
    - B) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring <u>device(s)devices</u>, such as a strip chart,

recorder or computer, with at least the same accuracy as the temperature monitor;

- 2) 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 218.187(b)(3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.187(b)(3).
  - g) Testing Requirements.
- Testing to demonstrate compliance with the requirements of this Section shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting <u>suchthe</u> testing to allow the Agency to be present during <u>suchthe</u> testing;
  - 2) Testing to demonstrate compliance with the VOM content limitations in Section 218.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted<sub>3</sub> as follows:
    - A) The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used, provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, shall be used to demonstrate compliance; or
    - B) The manufacturer's specifications for VOM content for cleaning solvents may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Parta provided, however, Method 24 shall be used to determine compliance;
- Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted in accordance with the applicable methods and procedures specified in Section 218.110 of this Part;
- For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) shall be used for testing to demonstrate compliance with the requirements of Section 218.187(b)(3) of this Subpart, as follows:

- A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, 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, 40 CFR 60, 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, 40 CFR 60, 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;
    - 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; 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 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 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 shall conduct testing to demonstrate compliance with the requirements of Section 218.187(b)(3) of this Subpart

as set forth in the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 218.187(b)(3) of this Subpart.

(Source: Added at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

# SUBPART F: COATING OPERATIONS

#### Section 218.204 Emission Limitations

Except as provided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of this Subpart, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as provided in Sections 218.204(1) and 218.204(p), 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 (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 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 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) Auto 1)	omobile or Light-Duty Truck Coating Prime coat	<del>kg/l</del> 0.14 0.14*	<del>lb/gal</del> ( <del>1.2)</del> ( <del>1.2)*</del>
<del>2)</del>	Primer surface coat	<del>1.81</del> <del>1.81*</del>	<del>(15.1)</del> <del>(15.1)*</del>
(Note: The primer		kg/l	lb/gal
surface coat			
limitation is in unit	<del>S</del> -		
of kg (lbs) of VOM	<b>4</b>		
per 1 (gal) of coating	g-		
solids deposited.			
Compliance with th			
limitation shall be			
based on the daily-			
weighted average			
from an entire prime	er		
surfacer operation.			Contraction of the second
<b>Compliance shall b</b>			The second

demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) and the recordkeeping andreportingrequirementsspecified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testingproposal approved by the Agency and **USEPA specifying** the method of demonstratingcompliance with the protocol. Section-218.205 does not apply to the primer surfacer limitation.) 3)

(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 dailyweighted average from an entire topcoat operation. Compliance shall be demonstrated inaccordance with the topcoat protocol referenced in Section 218.105(b) of this Part and the

<del>Topcoat</del>	<del>1.81</del> <del>1.81*</del> <del>kg/l</del>	<del>(15.1)</del> <del>(15.1)*</del> <del>lb/gal</del>

		and a lot management	Contraction of Dearth contraction
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.)			
4)	Final repair coat	0.58	(4.8)
	Tim Topuit Cout	0.58*	<del>(4.8)*</del>
<del>b)</del>	Can Coating	kg/l	lb/gal
	Sheet basecoat and overvarnish	NE/1	io, gui
A)	Sheet basecoat	0.34	(2.8)
TX)	Direct Dascout	0.26*	<del>(2.2)*</del>
<del>B)</del>	Overvarnish	0.34	(2.8)
	Crervariisi	0.34	( <del>2.8)*</del>
<del>2)</del>	Exterior basecoat and overvarnish	0.34	(2.8)
77	Exertor discourtant overvarinish	0.25*	( <del>2.0)</del> ( <del>2.1)*</del>
<del>3)</del>	Interior body spray coat	0.25	(2.1)
THE A PROPERTY OF A PROPERTY OF A DESCRIPTION OF A DESCRIPT		0.51	(1.2)
<del>A)</del>	<del>Two piece</del>	0.31 0.44*	(4.2)
D)	Three mises		<del>(3.7)*</del> (4.2)
<del>B)</del>	Three piece	<del>0.51</del>	(4.2)
		0.51*	<del>(4.2)*</del>
4)	Exterior end coat	<del>0.51</del>	(4.2)
	C'1	0.51*	<del>(4.2)*</del>
<del>5)</del>	Side seam spray coat	0.66	<del>(5.5)</del>
0		<del>0.66*</del>	<del>(5.5)*</del>
<del>6)</del>	End sealing compound coat	<del>0.44</del>	(3.7)
		0.44*	<del>(3.7)*</del>
		kg/l	lb/gal
<del>e)</del>	Paper Coating	0.35	<del>(2.9)</del>
		<del>0.28*</del>	<del>(2.3)*</del>
(Note: The		kg/l	lb/gal

paper coating limitation shall not apply to any owner or operator of any paper			
coating line on which flexographic, or rotogravure, lithographic,			
or letterpress printing is performed if the paper coating line-			
complies- with the- applicable- emissions- limitations in			
Subpart H 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.) d)	Coil Coating	<del>0.31</del> -	(2.6)
e) f)	Fabric Coating Vinyl Coating	<del>0.20*</del> <del>0.35-</del> <del>0.28*</del> <del>0.45-</del>	(1.7)* (2.9) (2.3)* (3.8)
<del>g)</del> 1)	Metal Furniture Coating Air dried	<del>0.28*</del> <del>0.36</del>	<del>(2.3)*</del> <del>(3.0)</del>

<del>2)</del>	Baked	<del>0.34*</del> <del>0.36</del>	<del>(2.8)*</del> <del>(3.0)</del>
		0.28*	<del>(2.3)*</del>
h)	Large Appliance Coating		
<del>1)</del>	Air dried	0.34	(2.8)
		<del>0.34*</del>	<del>(2.8)*</del>
<del>2)</del>	Baked	0.34	(2.8)
Olater The		<del>0.28*</del>	<del>(2.3)*</del>
(Note: The limitation		kg/l	<del>lb/gal</del>
shall not			
apply to the			
use of quick-			
drying-			
lacquers for			
repair of			The second second
scratches and			
nicks that			
occur during-			
assembly,			
provided that			
the volume of			
coating does			
not exceed			
0.951(1)			
<del>quart) in any</del> one rolling			
eight-hour			
<del>period.)</del>			
i)	Magnet Wire Coating	0.20	(1.7)
		0.20*	<del>(1.7)*</del>
<del>j)</del> Miscella	aneous Metal Parts and Products Coating		
1)	Clear coating	0.52	(4.3)
		<del>0.52*</del>	(4.3)*
<del>2)</del>	Extreme performance coating		
<del>A)</del>	Air dried	0.42	<del>(3.5)</del>
		<del>0.42*</del>	<del>(3.5)*</del>
<del>B)</del>	Baked	0.42	<del>(3.5)</del>
	01 1 1 1 1 1	<del>0.40*</del>	<del>(3.3)*</del>
<del>3)</del>	Steel pail and drum interior coating	<del>0.52</del> 0.52*	(4.3)
4)	All other costings	<del>0.52*</del>	<del>(4.3)*</del>
4)	All other coatings Air Dried	0.42	(2.5)
<del>A)</del>	THI LINCU	0:42 0.40*	<del>(3.5)</del> <del>(3.3)*</del>
<del>B)</del>	Baked	0.36	<del>(3.0)</del>
57		0.34*	( <del>2.8)*</del>
an instrumental state many and approximation of			(

	<del>5)</del>	Marine engine coating	APPENDER THE		
	<del>A)</del>	Air Dried	0.42	(3.5)	3.
			0.42*	(3.5)*	
	<del>B)</del>	Baked			
	i)	Primer/Topcoat	0.42	(3.5)	
			0.42*	(3.5)*	
	ii)	Corrosion resistant basecoat	0.42	(3.5)	
			<del>0.28*</del>	<del>(2.3)*</del>	
	<del>C)</del>	Clear Coating	0.52	(4.3)	
			<del>0.52*</del>	<del>(4.3)*</del>	
	<del>6)</del>	Metallic Coating			Sec. 1. 1. 1. 1.
	<del>A)</del>	Air Dried	0.42	<del>(3.5)</del>	
			<del>0.42*</del>	<del>(3.5)*</del>	
	<del>B)</del>	Baked	0.36	<del>(3.0)</del>	
			0.36	<del>(3.0)*</del>	
7)		ighway Vehicle Products Coating	kg/l	<del>lb/gal</del>	terms are defined:i)
	coating is attra				reated.iii) "Mar
	<del>1)</del> <del>Ex</del>	treme performance prime coat	0.42	<del>(3.5)</del>	
			0.42*	<del>(3.5)*</del>	
	<del>2)</del> Extrem	ne performance topcoat (air dried)	0.42	(3.5)	
			0.42*	<del>(3.5)*</del>	
	<del>3)</del>	Final repair coat (air dried)	<del>0.42</del>	<del>(3.5)</del>	
4			0.42*	<del>(3.5)*</del>	
4)		itations before March 15, 1998:	kg/l	<del>lb/gal</del>	
	subject to the				
	emission limitations for miscellaneous				
	A DESCRIPTION OF THE PARTY OF T				
	metal parts and				and the second
	products coatings in		All and the		
	subsection (j) above.l) Wood				
	Furniture Coating1)				
	A)	Clear topcoat	0.67	<del>(5.6)</del>	
	<del>B)</del>	Opaque stain	0.56	(3.0)	
	<del>C)</del>	Pigmented coat	0.60	(5.0)	
	<del>D)</del>	Repair coat	0.67	<del>(5.6)</del>	
	<del>E)</del>	Sealer	0.67	(5.6)	
	<del>F)</del>	Semi-transparent stain	0.79	(6.6)	
	<del>G)</del>	Wash coat	0.73	(6.1)	
(Note:	Prior to March 15, 199	98, an kg VC		idsVOM/lb solids	
	owner or operator of a	wood			
	furniture coating oper	ation-	A TANTO		
	subject to this Section				
	apply all coatings, wit				
	exception of no more				
	37.81 (10 gal) of coatin	<del>ng per</del>			

day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless sprayapplication system, electrostatic sprayapplication system, electrostatic bell or discspray application system, heated airless sprayapplication system, roller coating, brush or wipecoating application system, dip coating application system or high volume lowpressure (HVLP) application system.)2) On and after March 15, 1998, wood furniture sealers and topcoats must comply withone of the limitations specified in subsections (1)(2)(A) through (E), below:

<del>A)</del>	Topcoat	0.8	<del>(0.8)</del>
<del>B)</del>	Sealers and topcoats with the		
	following limits:		
i <del>)</del>	Sealer other than acid-	<del>1.9</del>	<del>(1.9)</del>
	cured alkyd amino-		
	vinyl sealer		
ii)	Topcoat other than-	<del>1.8</del>	<del>(1.8)</del>
	acid-cured alkyd-		
	amino conversion		
	varnish topcoat		
iii)	Acid cured alkyd	2.3	<del>(2.3)</del>
	amino vinyl sealer		
<del>iv)</del>	Acid-cured alkyd	<del>2.0</del>	<del>(2.0)</del>
	amino conversion		
	varnish topcoat		
Meet the provisions of		kg/l	<del>lb/gal</del>
Section 218.215 of this			
Subpart for use of an			
averaging approach;D)			
Achieve a reduction in			

emissions equivalent to the

<del>C)</del>

requirements of subsect (1)(2)(A) or (B) of the Section, as calculated to Section 218.216 of the Subpart; orE) Use combination of the met	<del>his</del> <del>using</del> <del>his</del> <del>se a</del>		
specified in subsection	<del>DIIS-</del>		
(1)(2)(A) through (D) o			
Section.3) Other we furniture coating limits			
on and after March 1			No. W. A. Barriel
<del>1998:</del>			
<del>A)</del>	Opaque stain	<del>0.56</del>	<del>(4.7)</del>
<del>B)</del>	Non-topcoat pigmented coat	0.60	<del>(5.0)</del>
<del>C)</del> D)	Repair coat	<del>0.67</del> 0.70	<del>(5.6)</del>
<del>D)</del> F)	Semi-transparent stain Wash coat	<del>0.79</del> <del>0.73</del>	<del>(6.6)</del> (6.1)
E) Other Bristing Discel	Electric Locomotive Coating Line		<del>(6.1)</del> <del>Ib/gal</del>
furniture-	in Cook County	- Keyi	rorgan
coating			
requirements			
on and after			
March 15,			
<del>1998:A)</del>			
No source			
subject to the			
limitations of			
subsection-			
$\frac{(1)(2) \text{ or } (3)}{(3)}$			
of this			A dell' interest in the
Section and			
utilizing one or more wood			
furniture			
coating spray			
booths shall			
use strippable			
spray booth			
coatings			
containing-			
more than 0.8			
kg VOM/kg			
solids (0.8 lb VOM/lb			
<del>vom/10</del> solids), as			
applied.B)			

4)

Any source subject to the limitations of subsection (1)(2) or (3)of this Section shall comply with therequirementsof Section 218.217 of this-Subpart.C) Any source subject to the limitations of subsection-(1)(2)(A) or (B) of this Section and utilizing one or more continuouscoaters shall, for each continuouscoater, use an initial coating whichcomplieswith the limitations of subsection (1)(2)(A) or (B) of this Section. The viscosity of the coating in each reservoir shall always be greater than or equal to the viscosity of the initial

coating in the		
reservoir.		
The owner or		
operator-		
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		
and weight of		
VOM per		
weight of		
solids of		
coating and		
solvent each		
time coating		
or solvent is		
added; andiii)	0.40	(2.5)
1) Extreme performance prime coat	0.42	( <del>3.5)</del>
	<del>0.42*</del>	(3.5)*
2) Extreme performance top-coat (air dried)	0.42 0.42*	(3.5) (2.5)*
2) Find any invest (india)	0.42*	( <del>3.5)*</del> (2.5)
3) Final repair coat (air dried)	0.42 0.42*	(3.5) (2.5)*
() High temperature aluminum secting	<del>0.42*</del> <del>0.72</del>	<del>(3.5)*</del> (6.0)
4) High temperature aluminum coating	<del>0.72*</del> <del>0.72*</del>	(6.0)*
5) All other coatings	0.72* 0.36	( <del>6.0)*</del> (3.0)
57 THI OLICI COALINES	0.36*	<del>(3.0)</del> <del>(3.0)*</del>
n) Plastic Parts Coating: Automotive/Transportation	<del>v.so</del> - kg/l	( <del>).0)*</del> <del>lb/gal</del>
ny Flashe Farts Counting. Thatomotive Hansportation	AB/1	10/gui

1)	Interiors			
<del>A)</del>	Baked			
i)	Color coat	<del>0.49*</del>	<del>(4.1)*</del>	
ii)	Primer	<del>0.46*</del>	<del>(3.8)*</del>	
<del>B)</del>	Air Dried			
i)	Color coat	<del>0.38*</del>	<del>(3.2)*</del>	
ii)	Primer	<del>0.42*</del>	<del>(3.5)*</del>	
2)	Exteriors (flexible and non-flexible)			
<del>A)</del>	Baked			
i)	Primer	<del>0.60*</del>	<del>(5.0)*</del>	
ii)	Primer non-flexible	<del>0.54*</del>	(4.5)*	
iii)	Clear coat	<del>0.52*</del>	<del>(4.3)*</del>	
iv)	Color coat	0.55*	(4.6)*	
<del>B)</del>	Air Dried			
i)	Primer	<del>0.66*</del>	<del>(5.5)*</del>	

4

. .

<u>a)</u>		Automobile or Light-Duty Truck Coating	kg/l	<u>lb/gal</u>
	IJ	Prime coat	<u>0.14</u> 0.14*	( <u>1.2</u> ) ( <u>1.2</u> )*
	2)	Primer surface coat	<u>1.81</u> <u>1.81*</u>	<u>(15.1)</u> (15.1)*
		(Note: The primer surface coat limitation is 1 (gal) of coating solids deposited. Complian based on the daily-weighted average from operation. Compliance shall be demonstrat topcoat protocol referenced in Section 218. and reporting requirements specified in Section 218. demonstrate compliance shall be performed protocol and a detailed testing proposal a USEPA specifying the method of demons protocol. Section 218.205 does not apply to	nce with the lin m an entire prin rated in accorda 105(b) and the ection 218.211( in accordance v pproved by the strating complia	nitation shall be ner surfacer ance with the recordkeeping f). Testing to with the topcoat Agency and ance with the
	3)	Topcoat	<u>kg/l</u> 1.81 1.81*	<u>lb/gal</u> (15.1) (15.1)*
		(Note: The topcoat limitation is in units of coating solids deposited. Compliance with t		CONTRACTOR OF A DESCRIPTION OF A DESCRIP

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) of this Part and the recordkeeping and reporting

				and the second	
		the second se	ments specified in Section 218.21	CONTRACTOR OF THE OWNER	the second s
		Contraction of the second s	e shall be performed in accordance		
		A REAL PROPERTY AND ADDRESS OF	testing proposal approved by the thod of demonstrating compliance	the second s	And in the second s
		the second se	.205 of this Part does not apply to	CONTRACTOR OF A DESIGN OF A	
					ananom.
	4)		Final repair coat	<u>kg/1</u>	lb/gal
				0.58	(4.8)
				<u>0.58*</u>	(4.8)*
<u>b)</u>			Can Coating	kg/l	lb/gal
	IJ	Shee	et basecoat and overvarnish		
		A)	Sheet basecoat	0.34	(2.9)
		<u>ai</u>	Sileer Dasecoal	0.26*	(2.8) (2.2)*
				Mater Mar	teret.
		<u>B)</u>	Overvarnish	0.34	(2.8)
				0.34	<u>(2.8)*</u>
	2)			0.24	(2.0)
	2)	Exter	ior basecoat and overvarnish	<u>0.34</u> 0.25*	(2.8) (2.1)*
	3)	Ĩ	nterior body spray coat	<u>Vitio</u>	Lead J-
	-				
		A)	Two piece	0.51	(4.2)
				<u>0.44*</u>	<u>(3.7)*</u>
		D	TIL	0.51	(4.0)
		<u>B)</u>	Three piece	<u>0.51</u> 0.51*	<u>(4.2)</u> (4.2)*
				<u>V.SI.</u>	<u>(4.2)</u>
	<u>4)</u>		Exterior end coat	0.51	(4.2)
				0.51*	(4.2)*
	5)		Side seam spray coat	0.66	<u>(5.5)</u>
				<u>0.66*</u>	<u>(5.5)*</u>
	<u>6</u> )	En	d sealing compound coat	0.44	(3.7)
				0.44*	(3.7)*
<u>c)</u>	Pape	er Coating		<u>kg/1</u>	lb/gal
				0.35	(2.9)
				0.28*	<u>(2.3)*</u>
					Station of the second states of the

(Note: The paper coating limitation shall 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>d)</u>	Coil Coating	kg/l	lb/gal
Ω.	Con coaning	0.31	(2.6)
		<u>0.20*</u>	<u>(1.7)*</u>
<u>e)</u>	Fabric Coating	<u>0.35</u> <u>0.28*</u>	(2.9) (2.3)*
Ð	Vinyl Coating	0.45 0.28*	( <u>3.8)</u> ( <u>2.3)*</u>
g)	Metal Furniture Coating		
	1) <u>Air dried</u>	<u>0.36</u> <u>0.34*</u>	( <u>3.0)</u> ( <u>2.8)*</u>
	2) Baked	<u>0.36</u> 0.28*	<u>(3.0)</u> (2.3)*
b)	Large Appliance Coating	VIEX_	There is
	1) Air dried	<u>0.34</u> <u>0.34*</u>	(2.8) (2.8)*
	2) Baked	<u>0.34</u> <u>0.28*</u>	(2.8) (2.3)*
	BOARD NOTE: The limitation shall not apply lacquers for repair of scratches and nicks that occ that the volume of coating does not exceed 0.95 eight-hour period.	ur during assen	ably, provided
Ð	Magnet Wire Coating	kg/1 0.20 0.20*	<u>lb/gal</u> (1.7) (1.7)*
il	Miscellaneous Metal Parts and Products Coating		
	1) <u>Clear coating</u>	<u>0.52</u> <u>0.52*</u>	( <u>4.3)</u> ( <u>4.3)*</u>
	2) Extreme performance coating		
	A) Air dried	<u>0.42</u> <u>0.42*</u>	(3.5) (3.5)*

Baked

<u>B)</u>

(3.5) (3.3)\*

<u>0.42</u> 0.40\*

3)	Steel pail and drum interior coating		<u>0.52</u> <u>0.52*</u>	(4.3) (4.3)*
<u>4)</u>		All other coatings		
	<u>A)</u>	Air Dried	<u>0.42</u> 0.40*	(3.5) (3.3)*
	<u>B)</u>	Baked	0.36 0.34*	( <u>3.0)</u> ( <u>2.8)*</u>
<u>5)</u>	1	Marine engine coating		
	<u>A)</u>	Air Dried	<u>0.42</u> 0.42*	( <u>3.5)</u> ( <u>3.5)*</u>
	<u>B)</u>	Baked	<u></u>	
	ŋ	Primer/Topcoat	<u>0.42</u> <u>0.42*</u>	( <u>3.5)</u> ( <u>3.5)</u> *
	ii)	Corrosion resistant basecoat	<u>0.42</u> <u>0.28*</u>	( <u>3.5)</u> ( <u>2.3)*</u>
	<u>C</u>	Clear Coating	<u>0.52</u> <u>0.52*</u>	(4.3) (4.3)*
<u></u>		Metallic Coating		
	A)	<u>Air Dried</u>	<u>0.42</u> <u>0.42*</u>	(3.5) (3.5)*
	<u>B)</u>	Baked	<u>0.36</u> 0.36	<u>(3.0)</u> (3.0)*

# 7) Definitions

A) For purposes of subsection 218.204(j)(5) of this Section. the following terms are defined:

 i) "Corrosion resistant basecoat" means, for purposes of subsection 218.204(j)(5)(B)(ii) of this Section, a waterborne 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 218.204(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 218.204(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 218.204(j)(6) of this Section, "metallic coating" means a coating which contains more than <sup>1</sup>/<sub>4</sub> lb/gal of metal particles, as applied.

<u>k)</u>	Heav	vy Off-Highv	vay Vehicle Products Coating	<u>kg/l</u>	lb/gal
	1)	Extren	Extreme performance prime coat		( <u>3.5)</u> ( <u>3.5)*</u>
	2)	Extreme p	erformance topcoat (air dried)	<u>0.42</u> <u>0.42*</u>	( <u>3.5)</u> ( <u>3.5)*</u>
	<u>3)</u>	<u>Fin</u>	al repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
	<u>4) Al</u>	l other coatir	ngs are subject to the emission lin		
D		Wood	parts and products coatings in Furniture Coating	subsection (j)	above.
	1)	Limitati	ons before March 15, 1998:	<u>kg/1</u>	<u>lb/gal</u>
		A)	Clear topcoat	<u>0.67</u>	<u>(5.6)</u>
		<u>B)</u>	Opaque stain	0.56	<u>(4.7)</u>
		<u>C)</u>	Pigmented coat	0.60	<u>(5.0)</u>
-		<u>D)</u>	Repair coat	<u>0.67</u>	<u>(5.6)</u>
		E)	Sealer	0.67	<u>(5.6)</u>
		<u>E)</u>	Semi-transparent stain	<u>0.79</u>	<u>(6.6)</u>
		<u>G</u> )	Wash coat	0.73	(6.1)

(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 1 (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.)

# 2) On and after March 15, 1998, wood furniture sealers and topcoats must comply with one of the limitations specified in subsections (1)(2)(A) through (E), below:

		kg VOM/ kg solids	<u>lb VOM/</u> <u>lb solids</u>	The second
<u>A)</u>	Topcoat	<u>0.8</u>	<u>(0.8)</u>	
<u>B)</u>	Sealers and topcoats with the following limits:			
	i) Sealer other than acid-cured alkyd amino vinyl sealer	<u>1.9</u>	<u>(1.9)</u>	
	ii)Topcoat other than acid-cured alkyd amino conversion varnish topcoat	<u>1.8</u>	<u>(1.8)</u>	
	iii)Acid-cured alkyd amino vinyl sealer	2.3	(2.3)	
	iv)Acid-cured alkyd amino conversion varnish topcoat	2.0	(2.0)	

<u>C)</u> <u>Meet the provisions of Section 218.215 of this Subpart for use of</u> an averaging approach:

D) Achieve a reduction in emissions equivalent to the requirements of subsection (1)(2)(A) or (B) of this Section. as calculated using Section 218.216 of this Subpart; or

<u>E)</u> Use a combination of the methods specified in subsections (1)(2)(A) through (D) of this Section.

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

### 3) Other wood furniture coating limitations on and after March 15, 1998:

- 4) Other wood furniture coating requirements on and after March 15, 1998:
  - <u>A)</u> No source subject to the limitations of subsection (1)(2) or (3) of this Section and utilizing one or more wood furniture coating spray 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)(2) or (3) of this Section shall comply with the requirements of Section 218.217 of this Subpart.
  - <u>Any source subject to the limitations of subsection (l)(2)(A) or (B)</u>
     <u>of this Section and utilizing one or more continuous coaters shall.</u>
     <u>for each continuous coater, use an initial coating which complies</u>
     <u>with the limitations of subsection (l)(2)(A) or (B) of this Section.</u>
     <u>The viscosity of the coating in each reservoir shall always be</u>
     <u>greater than or equal to the viscosity of the initial coating in the</u>
     <u>reservoir. The owner or operator shall:</u>
    - 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.

lb/gal

m) Existing Diesel-Electric Locomotive Coating Lines in Cook kg/l

Sty - Call		County		
IJ	Extreme p	erformance prime coat	<u>0.42</u> <u>0.42*</u>	( <u>3.5)</u> ( <u>3.5)*</u>
2)	Extreme perfo	rmance top-coat (air dried)	<u>0.42</u> <u>0.42*</u>	(3.5) (3.5)*
<u>3)</u>	<u>Final re</u>	pair coat (air dried)	<u>0.42</u> <u>0.42*</u>	( <u>3.5)</u> ( <u>3.5)*</u>
<u>4)</u>	High-tempe	rature aluminum coating	<u>0.72</u> <u>0.72*</u>	(6.0) (6.0)*
হ্য	AL	Lother coatings	<u>0.36</u> 0.36*	<u>(3.0)</u> (2.0)*
n) Plastic	Parts Coating:	Automotive/Transportation	kg/1	<u>(3.0)*</u> <u>lb/gal</u>
IJ		Interiors		
	<u>A)</u>	Baked		
	ij	Color coat	<u>0.49*</u>	<u>(4.1)*</u>
	<u>ii)</u>	Primer	<u>0.46*</u>	<u>(3.8)*</u>
	<u>B)</u>	Air Dried		
	Ŋ	Color coat	<u>0.38*</u>	(3.2)*
	ii)	Primer	0.42*	(3.5)*
2)	Exteriors (fl	exible and non-flexible)		
	<u>A)</u>	Baked		
	Ŋ	Primer	<u>0.60*</u>	<u>(5.0)*</u>
	ii)	Primer non-flexible	<u>0.54*</u>	<u>(4.5)*</u>
	iii)	Clear coat	<u>0.52*</u>	<u>(4.3)*</u>
	<u>iv)</u>	Color coat	<u>0.55*</u>	<u>(4.6)*</u>
	<u>B)</u>	Air Dried		

	i	5	Primer	0.66*	<u>(5.5)*</u>
<del>ii)</del>	Clear	<del>coat<u>ii)</u></del>	Clear coat	0.54*	(4.5)*
<del>iii)</del>		<del>oat (re⊄</del> &- <del>black<u>iii</u> )</del>	olor coat (red & black)	0.67*	(5.6)*
<del>iv)</del>	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	r <del>-coat-</del> (othersi ⊻)	Color coat (others)	0.61*	(5.1)*
<del>3)</del> <u>3)</u>		S	pecialty_		
<del>A)</del>	A) Vacu		engmetallizing basecoats, ture basecoatsbase coats	0.66*	(5.5)*
<del>B)</del>	BBlack c	-	reflective argent coatings, air er coatings, and soft coatings	0.71*	(5.9)*
<del>C)</del>	<u>C</u> Gloss r		vacuum urfacengmetallizing pats, and texture topcoats	0.77*	(6.4)*
<del>D)</del>	D)Stenci		s, adhesion primers, ink pad , electrostatic prep coatings, and resist coatings	0.82*	(6.8)*
<del>E)</del>	E) 📕	ad lamn	Headlamp lens coatings	0.89*	(7.4)*
o)			Business Machine	kg/l	lb/gal
<del>1)</del> <u>1</u> )		I	Primer	0.14*	(1.2)*
<del>2)</del> 2)	Co	lor coat (	non-texture coat)	0.28*	(2.3)*
<del>3)</del> <u>3)</u>	2	Color coa	t (texture coat)	0.28*	(2.3)*
4) 4)	the statistical sector representation of the	COLUMN THE REAL PROVINCE	erference/radio frequency_ MI/RFI) shielding coatings	0.48*	(4.0)*
<del>5)</del> 5)		Specia	Ity Coatings		
<del>A)</del>	<u>A)</u>		Soft coat	0.52*	(4.3)*
<del>B)</del>	<u>B)</u>		Plating resist	0.71*	(5.9)*

йц <sup>6</sup> т	<del>C)</del>	C)	Plating sensitizer	0.85*	(7.1)*	
1	0)					
		<b>A</b> /	eling Coatings. On and aft ngs shall comply with one of	•		
		coatii	$\frac{1}{1}$	of the following him	itations.	
		<u>1)</u> 0.25	5 kg VOM/ <u>11</u> of coatings (2	2.1 lb VOM/gal coat	ings); or	
× 1 -		2) 0.1	$25 \log VOM/11$ solids (2)	h VOM/aal aalida	A	
I		2) 0.3	35 kg VOM/ <u>11</u> solids (2.9	9 10 V Olvi/gai solids	<i>5)</i> .	
		(Source: Amend	ed at 34 Ill. Reg, e	effective		
		Section 218	8.205 Daily-Weighted Av	erage Limitations		
er or ope	rator of a coatin	g line subject to the	limitations of Section 218.	204 of this Subpart	and complying by	
		-	perate the subject coating l		-	
		_	subsection (a), (b), (c), (d) of coating) through the app			
			ction 218.105(a) of this Par			
I.		requirements	specified in Section 218.21	1(d) of this Subpart	•	
	а	) No owner or opera	tor of a coating line subject	t to only one of the	limitations from	
	a) No owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a)(1), (a)(4), (c), (d), (e), (f), or (p) of this Subpar					
	shall apply coatings on any such coating line, during any day, whose daily- weighted average VOM content exceeds the emission limitation to which the					
		weighted avera	age vOM content exceeds coatings are		ion to which the	
6	·	-	scellaneous metal parts and ) of this Subpart shall appl			
			ing line unless the requirer	-	-	
	-		this Section are met			
Ē		1) For each coat	ing line which applies mul	tiple coatings all of	which are subject	
I			same numerical emission l			
			ne same day (e.g., all coatir	-	-	
5 av			.5 lbs/gal)), the daily-weig the coating VOM content l	-		
		CAUCU	-	g used, or	to the category of	
			coating line which applies l emission limitation in Sec			
			ne day, the owner or operat			
			d by the Agency and appro	-		
I			ive approval, the requirem Statement (and related polic	-1971 C	-	
		1 oney c		t he satisfied		

1986), must be satisfied.

No owner or operator of a can coating line subject to the limitations of Section 218.204(b) of this Subpart shall operate the subject coating line using a coating with a VOM content in excess of the limitations specified in Section 218.204(b) of this Subpart unless all of the following requirements are met:

1)

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, according to subsection I(c)(2) of this Section. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated 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<sub>i</sub> = Volume of each coating applied for the day in units of l/day (gal/day) of coating (minus water and any compoundswhich are specifically exempted from the definition of VOM);

C<sub>i</sub> = The VOM content of each coating as applied in units of kg VOM/I (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

Ed	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;
<u>V</u> i	$\equiv$ Volume of each coating applied for the day in units of l/day.
	(gal/day) of coating (minus water and any compounds
	which are specifically exempted from the definition of
	<u>VOM):</u>
<u>C</u> i	= The VOM content of each coating as applied in units of kg.
	VOM/I (lbs VOM/gal) of coating (minus water and any

c)

compounds which are specifically exempted from the definition of VOM.

2) The alternative daily emission limitation (A<sub>d</sub>) 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:

$$A_{d} = \sum_{i=1}^{n} V_{i} L_{i} (\frac{D_{i} - C_{i}}{D_{i} - L_{i}})$$

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<sub>i</sub>= The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compoundswhich are specifically exempted from the definition of VOM);
- D<sub>i</sub> = The density of VOM in each coating applied. For the purposes of calculating A<sub>d</sub>, the density is 0.882 kg VOM/I VOM (7.36 lbs-VOM/gal VOM);
  - V<sub>i</sub> = Volume of each surface coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
    - L<sub>i</sub> = 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 (minus water and any compounds which are specifically exempted from the definition of VOM).

Ad	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:
<u>C</u> i	The VOM content of each surface coating as applied in units of kg
	VOM/I (lbs VOM/gal) of coating (minus water and any
	compounds which are specifically exempted from the

	definition of VOM):
Di	The density of VOM in each coating applied. For the purposes of
	calculating Ad, the density is 0.882 kg VOM/1 VOM (7.36
	lbs VOM/gal VOM);
<u>V</u> i	=Volume of each surface coating applied for the day in units of 1
	(gal) of coating (minus water and any compounds which are
	specifically exempted from the definition of VOM):
Li	The VOM emission limitation for each surface coating applied as
	specified in Section 218.204(b) of this Subpart in units of
	kg VOM/I (lbs VOM/gal) of coating (minus water and any
	compounds which are specifically exempted from the
	definition of VOM.

d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) of this Subpart shall apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.

#### - 1)

- 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 shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 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 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<sup>2</sup>'s Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- e) No owner or operator of a wood furniture coating line subject to the limitations of Section 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 (e)(1) or subsection (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)

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)(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 shall not exceed the coating VOM content limit corresponding to the category of coating used, or

- For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(l)(1) or (l)(3) 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<sup>2</sup>/<sub>2</sub>'s Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) of this Subpart shall apply coatings to dieselelectric locomotives on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.

#### 1)

- 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 shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 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 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<sup>2</sup>'s Emissions Trading Policy Statement (and related policy) must be satisfied.
- g) 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)

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

 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<sup>2</sup>'s Emissions Trading Policy Statement (and related policy) must be satisfied.

# h) No owner or operator of a metal furniture coating line, subject to the limitations of Section 218.204(g) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (h)(1) or (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 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 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<sup>2</sup>'s Emissions Trading Policy Statement (and related policy) must be satisfied.

)

i) No owner or operator of a large appliance coating line, subject to the limitations of Section 218.204(h) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (i)(1) or (i)(2) of this Section are met:

+

 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 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 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<sup>2</sup>'s Emissions Trading Policy Statement (and related policy) must be satisfied.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

# Section 218.207 Alternative Emission Limitations

<del>a)</del>

a) Any owner or operator of a coating line subject to Section 218.204 of this Subpart may comply with this Section, rather than with Section 218.204 of this Subpart, if a capture system and control device are operated at all times the coating line is in operation and the owner or operator demonstrates compliance with subsections
 ii) (i), (i), (i), (j), or (k), or (l) 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 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 I(c), (d), (e), (f), (g), (h), (i), (j), or (k), or (l) 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 percent reduction in the overall emissions of VOM from the coating line and the control device has a 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 USEPA as a SIP revision. The use of transfer efficiency test methods must be approved by the Agency and the USEPA. Such overall efficiency is to be determined as follows:

#### A)

<u>A)</u>Obtain the emission limitation from the appropriate subsection in Section 218.204 of this Subpart;

- B) Calculate "S" according to the equation in Section 218.206 of this Subpart;
  - C) Calculate the overall efficiency required according to Section 218.105(e) of this Part. For the purposes of calculating this value, according to the equation in Section 218.105(e)(2) of this Part, <u>VOM<sub>1</sub>VOM<sub>1</sub></u> is equal to the value of <u>""S"</u> as determined above in subsection (b)(2)(B) of this Section.
- c) No owner or operator of a coating line subject to only one of the emission limitations from among Section 218.204(a)(1), (a)(4), (c), (d), (e), (f), or (i) of this Subpart and 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. No owner or operator of a coating line subject to Section 218.204(a)(2) or 218.204(a)(3) and equipped with a capture system and control

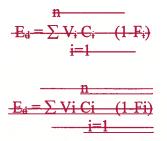
device shall operate the coating line unless the owner or operator demonstrates compliance with such limitation in accordance with the topcoat protocol referenced in Section 218.105(b).

- d) No owner or operator of a miscellaneous metal parts and products coating line which 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/1 [3.5 lbs/gal], and which 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) No owner or operator of a heavy off-highway vehicle products coating line which applies one 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/1 [3.5 lbs/gal]), and which 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.
- f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County which applies one 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/1 [3.5 lbs/gal]), and which 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.
- g) No owner or operator of a wood furniture coating line which applies one 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 which 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. If compliance is achieved by meeting the requirements in subsection (b)(2) of this Subpart must also be met.
- h) No owner or operator of a can coating line which is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (h)(1) or (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, according to Section 218.2054(c)(2) of this Subpart. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated by

<del>1)</del>

use of the following equation:



#### 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<sub>i</sub> = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- C<sub>i</sub> = The VOM content of each coating 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); 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.

$E_d = \sum_{i=1}^n V_i C_i  (1 - F_i)$	-	Actual VOM emissions for the day in units of kg/day (lbs/day);
the second se	re:	
Ed	-	Subscript denoting a specific coating applied:
n	=	Total number of surface coatings as applied in the can coating
		operation:
<u>V</u> i	=	Volume of each coating as applied for the day in units of l/day
		(gal/day) of coating (minus water and any compounds which are,
		specifically exempted from the definition of VOM):
<u>C</u> i	=	The VOM content of each coating as applied in units of kg
		VOM/1 (lbs VOM/gal) of coating (minus water and any
		compounds which are specifically exempted from the definition.
		of VOM) and
B	=	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.

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

i) No owner or operator of a plastic parts coating line which 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 which 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) No owner or operator of a metal furniture coating line which 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 which 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) No owner or operator of a large appliance coating line which 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 which 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.
- No owner or operator of a flat wood paneling coating line which that is equipped with a capture system and control device shall operate the subject coating line unless either:

1)

1) The capture system and control device provide at least 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.

(Source: Amended at 34 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) 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), or (f), or (g) below: a) No owner or operator of a coating line which is exempt from the limitations of Section 218.204 of this Subpart because of the criteria in Section 218.208(a) or (b) of this Subpart shall operate 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) No owner or operator of a coating line complying by means of Section 218.204 of this Subpart shall operate 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) No owner or operator of a coating line complying by means of Section 218.205 of this Subpart shall operate 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) No owner or operator of a coating line complying by means of Section 218.207 of this Subpart shall operate 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) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.204, 218.205 or 218.207 of this Subpart, shall operate 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) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.212 of this Subpart, shall operate 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) No owner or operator of a coating line subject to the emission limitations contained in Section 218.204(p) of this Subpart shall operate <u>saidthat</u> 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 the requirements of Sections 218.211 and 218.217 of this Subpart, as applicable.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.211 Recordkeeping and Reporting

<del>a)</del>

a) The VOM content of each coating and the efficiency of each capture system and control device 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 which is exempted from the limitations of Section 218.204 of this Subpart because of Section 218.208(a) or (b) of this Subpart shall comply with the following:

- 1)

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) 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. Such certification shall include:

A)

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 which 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 the application of capture systems and control devices. The following equation 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<sub>e</sub> = Total VOM emissions from coating lines each day beforethe 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<sub>i</sub> = Weight of VOM per volume of each coating (minus water and any compounds which 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

 $B_i = Volume of each coating (minus water and any compounds$ which are specifically exempted from the definition of VOM) asapplied 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 asapplied on each coating line each day shall be described in the certification to the Agency.

L	Total VOM emissions from coating lines each day before 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);
i i i i i i i i i i i i i i i i i i i	Subscript denoting an individual coating line:
'n	Total number of coatings as applied each day on each
-	coating line:
i source i	Subscript denoting an individual coating:
Vi	= Weight of VOM per volume of each coating (minus water
ł	and any compounds which 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
Bi	Volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of I/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the yolume of each coating as applied on each coating line each, day shall be described in the certification to the Agency.

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) of this Section shall certify to the Agency that the source is exempt under the provisions of Section 218.208(b) of this Subpart. Such certification 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

A)

2)

- B) Calculations which 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 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 (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
- 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) 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)

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 (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) 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 the application of capture systems and control devices by sending a copy of 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(1) of this Subpart because of Section 218.208(b) 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 such an exceedance within 30 days

4)

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after the change occurs.

- 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) or (a)(3) of this Subpart and complying by means of Section 218.204 of this Subpart shall comply with the following:
  - <del>1)</del> 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 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 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 startupstart-up date. Such certification shall include:
    - $\mathbf{A}$ The name and identification number of each coating as applied on each coating line;
    - ₽) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; and
      - On and after March 15, 1998, for coating lines subject to the C) limitations of Section 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; and.
    - <del>D)</del> 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, 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 startup date, the owner or operator of a subject coating line 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)

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 (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line;
  - On and after March 15, 1998, for coating lines subject to the <u>C)</u>

c)

limitations of Section 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: and

- D) 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, 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 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:
  - The name and identification number of each coating as applied on A) each coating line:
  - The weight of VOM per volume of each coating (minus water and <u>B)</u> any compounds which 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(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 and certified product data sheets for each coating; and
    - D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 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; and-
  - E)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, as applied each day on each coating line.

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

> A) Any record showing violation of Section 218.204 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.

 $\mathbf{A}$ 

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 below, respectively. Upon changing the method of compliance from Section 218.204 of this Subpart to Section 218.205 of this Subpart or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.

d) Any owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart and complying by means of Section 218.205 of this Subpart shall comply with the following:

1)

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 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. Such certification shall include:

<u>A)</u> 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 (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(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.

E)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, as applied each day on each coating line.

**FEE**) 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.

**GFG**) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) of this Section.

**HGH**) An example of the format in which the records required in subsection (d)(2) of this Section will be kept.

On and after a date consistent with Section 218.106 of this Part, or on and after the initial 2) startupstart-up date, the owner or operator of a subject coating line 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)

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

- The weight of VOM per volume and the volume of each coating B) (minus water and any compounds which 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)(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(p) of this Subpart, the weight of VOM per volume of coatings or solids, as applicable, as applied each day on each coating line.
  - **EDE**) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104 of this Part.
- On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:

A) Any record showing violation of Section 218.205 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.

<del>A)</del>

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 shall comply with all requirements of subsection  $\frac{f(c)}{1}$ or (e)(1) of this Section, respectively. 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 shall comply with all requirements of subsection  $\mathbf{I}(\mathbf{c})$  or (e) of this Section, respectively.

3)

e) Any owner or operator of a coating line subject to the limitations of Section 218.207 of this Subpart and complying by means of Section 218.207 (c), (d), (e), (f), (g), or (h), or (l) 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 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.

On and after a date consistent with Section 218.106 of this Part, or on and after the initial startup date, the owner or operator of a subject coating line 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:

> <u>A)</u> The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 218.207(b)(2) of this Subpart.

 $\mathbf{A}$ 

- 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 shall notify the Agency in the following instances:

<u>A)</u> Any record showing violation of Section 218.207 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.

A)

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 shall comply with all requirements of subsection I(c)(1) or (d)(1) of this Section, respectively. Upon changing the method

2)

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 shall comply with all requirements of subsection  $\underline{H(c)}$  or (d) of this Section, respectively.

- f) Any owner or operator of a primer <u>urfacesurfacer</u> operation or topcoat operation subject to the limitations of Section 218.204(a)(2) or (a)(3) 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 operation, the owner or operator of a subject coating operation 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. Such certification shall include:

A)

- <u>A)</u> The name and identification number of each coating operation which will comply by means of Section 218.204(a)(2) and (a)(3) 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 (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) below.
- H) An example format for presenting the records required in subsection (f)(2)-below.

2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial startup date, the owner or operator of a subject coating operation 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)

<u>A)</u> All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart including:

i) The name and identification number of each coating as applied on each coating operation.

i)

- The weight of VOM per volume of each coating (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(s) is 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 shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart within 10 days from the end of the month and maintain this information at the source for a period of three years.

On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:

<u>A)</u> Any record showing a violation of Section 218.204(a)(2) or (a)(3) of this Subpart shall be reported by sending a copy of such record to the Agency within 15 days from the end of the month in which the violation occurred.

A)

B) The owner or operator shall notify the Agency of any change to the operation at least 30 days before the change is affected affected. The Agency shall determine whether or not compliance testing is required. If the Agency determines that compliance testing is required, then the owner or operator shall submit a testing proposal to the Agency within 30 days and test within 30 days of the approval of the proposal by the Agency and USEPA.

4)

g) On and after a date consistent with Section 218.106(e) 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 of this Subpart shall comply with the following:

- By May 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 <u>SectionsSection</u> 218.217<u>I(c)</u> and 218.217(d) of this Subpart; and
- 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 such violation to the Agency within 30 days following the occurrence of the violation.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

# Section 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines

<del>l)</del>

- 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(p) of this Subpart, and with coating lines in operation 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 below has been made after January 1, 1991, to one or more pre-existing coating 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 shall operate 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, 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 below, 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 shall, at all times, have a VOM content less than or equal to the applicable VOM content limitation

<sup>+</sup> 

for 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 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) 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 also include as a participating coating line, until December 31, 1999, only, any replacement line that satisfies all of the following conditions:
    - <del>1)</del>

1) The replacement line is operated as a powder coating line;

- 2) The replacement line was added after July 1, 1988; and
- The owner or operator also includes as a participating coating line one or more coating lines that satisfy the criteria of a replacement line, as described in subsection (a) of this Section.
- d) To demonstrate compliance with this Section, a source shall establish the following:  $\frac{1}{1}$

1) An alternative daily emission limitation shall be determined for all participating coating lines at the source according to subsection (d)(2) of this Section. All participating coating lines shall be factored in each day to demonstrate compliance. Provided compliance is established 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 (HaEtd) shall never exceed the alternative daily emission limitation (AdAtd) and shall be calculated by use of the following equation:

$$E_{d} = \sum_{i=1}^{n} V_i \cdot C_i$$

#### 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 linesat the source;
  - $V_i$  = Volume of each coating applied for the day in units of l/day (gal/day) of coating 3(minus water and any compounds which are specifically exempted from the definition of VOM); and
- C<sub>i</sub> = The VOM content of each coating 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).

$E_d = \sum_{i=1}^n V_i C_i$ where: E <sub>d</sub>	HI	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:
$\underline{\mathbf{V}}_{\mathbf{i}}$	-	Volume of each coating applied for the day in units of 1/day
		(gal/day) of coating (minus water and any compounds which are
		specifically exempted from the definition of VOM); and
<u>C</u> i	B I	The VOM content of each coating as applied in units of kg
		VOM/1 (lbs VOM/gal) of coating (minus water and any
		compounds which are specifically exempted from the definition of
	Vil. A	<u>VOM).</u>

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

$$A_d = A_1 + A_p$$

## $A_d = where A_l + A_p$

where  $A_d$  and  $A_p$  are defined in subsections (2)(A) and (2)(B) of this Section. A)

A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A<sub>l</sub>) shall be determined for all such participating non-powder coating lines on a daily basis as follows:

 $A_{i} = \Sigma - V_{i} L_{i} (D_{i} - C_{i})$ <u>— i=1 (D; Li)</u>

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<sub>i</sub> = The VOM content of each coating as applied in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
  - D<sub>i</sub> = The density of VOM in each coating applied. For the purposes of calculating A₁, the density is 0.882 kg VOM/I VOM (7.36 lbs VOM/gal VOM);
  - V<sub>i</sub> = Volume of each coating applied for the day in units of 1 (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and

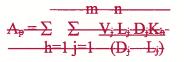
L<sub>i</sub> = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/I (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

$A = \sum_{i=1}^{n} V_{I} (D_{i} - C_{i})$	= The VOM emissions allowed for the day in units of kg/day (lbs/day):
$A_{1} = \sum_{i=1}^{n} V_{i} L_{i} \frac{(D_{i} - C_{i})}{(D_{i} - L_{i})} $ where	: AI
i	Subscript denoting a specific coating applied:
<u>n</u>	= Total number of coatings applied in the participating coating lines:
<u>C</u> i	=The VOM content of each coating as applied in units of kg VOM/1 (lbs
	VOM/gal) of coating (minus water and any compounds which are
	specifically exempted from the definition of VOM):
Di	= The density of VOM in each coating applied. For the purposes of
	calculating A1, the density is 0.882 kg VOM/I VOM (7.36 lbs
	VOM/gal VOM);
<u>V</u> i	Nolume of each coating applied for the day in units of l (gal) of coating
	(minus water and any compounds which are specifically exempted.
	from the definition of VOM); and
Li	=The VOM emission limitation for each coating applied, as specified in
	Section 218.204 of this Subpart. in units of kg VOM/1 (lbs.
	VOM/gal) of coating (minus water and any compounds which 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  $(A_p)$  shall be

determined for all such participating powder coating lines at the source on a daily basis as follows:



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<sub>j</sub> = The assumed density of VOM in liquid coating, 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM);
- V<sub>j</sub> =- Volume of each powder coating consumed for the day inunits of l (gal) of coating; and
- L<sub>j</sub> = 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 (minus water and any compounds which 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 which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained pursuant to the requirements of Section-

218.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Testmethods and recordkeeping requirements shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permitconditions, subject to the following restrictions:

# i) K cannot exceed 0.9 for non-recycled powder coatingsystems; or

ii) K o	annot exceed	120 for $m$	halowood	nouvder oo	ating systems.
mrv	annot execce	2.0 101 1	-cycicu	powder co	ating systems.

$A_{p} = \sum_{h=1}^{m} \sum_{j=1}^{n} \frac{V_{j}L_{j}D_{j}K_{h}}{(D_{j} - L_{j})} W$	HI	The VOM emissions allowed for the day in units of kg/day (lbs/day);
$\stackrel{r_p}{\longrightarrow} {\underset{h=1}{}} {\underset{j-1}{}} (D_j - L_j) $	h	(IDS/day).
ere:An		
	E	Subscript denoting a specific powder coating line:
h j	=	Subscript denoting a specific powder coating applied:
m	11 11	Total number of participating powder coating lines:
n	III	Total number of powder coatings applied in the participating coating lines:
D,	=	The assumed density of VOM in liquid coating, 0.882 kg VOM/L
		VOM (7.36 lbs VOM/gal VOM):
<u>V</u> i	Ξ	Volume of each powder coating consumed for the day in units of 1 (gal) of coating; and
Li	11	The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/I
		(lbs VOM/gal) of coating (minus water and any compounds which, are specifically exempted from the definition of VOM): and
K	H	<ul> <li>A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained 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 shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:         <ul> <li>i) K cannot exceed 0.9 for non-recycled powder coating systems: or</li> </ul> </li> </ul>
	13.	ii) K cannot exceed 2.0 for recycled powder coating systems.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective \_\_\_\_\_

# ection 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) of this Subpart shall not use compounds containing more than 8.0 percent, by weight, of VOM for cleaning spray booth components other than

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conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, that is, the spray booth coating or other material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic solvent to prepare the booth prior to applying the booth coating.

 b) Application equipment requirements. No owner or operator of a source subject to the limitations of Section 218.204(l) 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:

1.2

- 1) <u>To apply coating materials that have a VOM content no greater than 1.0 kg</u> <u>VOM/kg solids (1.0 lb VOM/lb solids), as applied;</u>
  - 2) For repair coating under the following circumstances:
  - A) <u>The coating materials are applied after the completion of the</u> <u>coating operation; or</u>
  - B) <u>The coating materials are applied after the stain and before any</u> other type of coating material is applied, and the coating materials are applied from a container that has a volume of no more than 2.0 <u>gallons</u>;
- 3) If the spray gun is aimed and triggered automatically, rather than manually; or
  - <u>4)</u> <u>If emissions from the finishing application station are directed to a control</u> <u>device pursuant to Section 218.216 of this Subpart.</u>
- **Chaining and storage requirements.** Each owner or operator of a source subject to the limitations of Section 218.204(1) or 218.204(p) 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.
- <u>d</u>) <u>Additional cleaning and storage requirements for flat wood paneling coating lines.</u> <u>Every owner or operator of a source subject to the limitations of Section</u> <u>218.204(p) of this Subpart shall:</u>
  - 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials

and clean up spills immediately;

- 2) <u>Minimize emissions of VOM during the cleaning of storage, mixing, and</u> <u>conveying equipment; and</u>
- 3) <u>Keep mixing vessels which contain VOM containing coatings and other</u> <u>VOM containing materials closed except when specifically in use.</u>

Application equipment requirements. No owner or operator of a source subject to the limitations of Section 218.204(l) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections I(1) through (4) of this Section:

 1)

1) To apply coating materials that have a VOM content no greater than 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids), as applied;

2) For repair coating under the following circumstances:

<u>A)</u> The coating materials are applied after 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 that has a volume of no more than 2.0 gallons;

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 pursuant to Section 218.216 of this Subpart.
- <u>c)</u> <u>Cleaning and storage requirements. Each owner or operator of a source subject to</u> <u>the limitations of Section 218.204(l) or 218.204(p) of this Subpart shall:</u>

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,
- <u>d)</u> <u>Additional cleaning and storage requirements for flat wood paneling coating lines.</u> <u>Every owner or operator of a source subject to the limitations of Section</u> <u>218.204(p) of this Subpart shall:</u>

<sup>&</sup>lt;del>A)</del>

### 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; and

3) <u>Keep mixing vessels that contain VOM-containing coatings and other VOM-containing materials</u> closed except when specifically in use.

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 that has a volume of no more than 2.0 gallons;

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

SUBPART H: PRINTING AND PUBLISHING

#### Section 218.401 Flexographic and Rotogravure Printing

<del>a)</del>

a) No owner or operator of a subject flexographic, packaging rotogravure or publication or rotogravure printing line shall apply at any time any coating or ink unless the VOM content does not exceed the limitation specified in either subsection (a)(1) or (a)(2) below, 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) below.

$$\frac{1}{1}$$
 Prior to May 1, 2010, either:

<u>A</u>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)<sup>2)</sup> Twenty-five percent VOM by volume of the volatile content in the coating and ink;-<u>And and</u>

2) On and after May 1, 2010:

#### A)

<u>A)</u>For owners<u>or</u> operators of flexographic or rotogravure printing lines that do not print flexible packaging, either:

i) Forty percent VOM by volume of the coating and ink (minus water and any compounds which that are specifically

exempted from the definition of VOM) or

ii) Twenty-five percent VOM by volume of the volatile content in the coating and ink;

B) 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:

i)

i)\_0.8 kg VOM/kg (0.8 lbs VOM/lb) solids applied; or

- ii) 0.16 kg VOM/kg (0.16 lbs VOM/lb) inks and coatings applied:
- b) Weighted <u>Averaging Alternative</u>averaging alternative.

1) Prior to May 1, 2010, <u>neNono</u> owner or operator of a subject flexographic, packaging rotogravure or publication or rotogravure printing line shall apply coatings or inks on the subject printing line unless the weighted average, by volume, VOM content of all coatings and inks as applied each day on the subject printing line does not exceed the limitation specified in either subsection (a)(1)(A) (as determined by subsection (b)(1)(A)) or subsection (a)(121)(B)) (as determined by subsection (b)(121)(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.

A1) The following equation 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) of this Section.

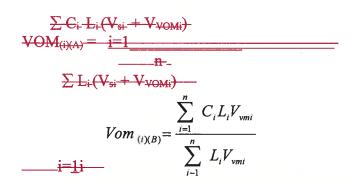
$$Vom_{(i)(A)} = \frac{\sum_{i=1}^{n} C_{i}L_{i}(V_{si} + V_{VOMi})}{\sum_{i=1}^{n} L_{i}(V_{si} + V_{VOMi})}$$

where:

<u>VOMora</u>	= The weighted average VOM content in units of percent VOM
	by volume of all coatings and inks (minus water and any
	compounds which 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 and/or inks as applied each

	day on a printing line:
<u>C</u> i	= The VOM content in units of percent VOM by volume of each
	coating or ink as applied (minus water and any compounds
	which are specifically exempted from the definition of VOM):
L	<u>= The liquid volume of each coating or ink as applied in units of</u>
	<u>l (gal):</u>
Vsi	$\equiv$ The volume fraction of solids in each coating or ink as
	applied: and
<u>Vvomi</u>	The volume fraction of VOM in each coating or ink as
医防护性肌骨的炎 医结核 医结核管	applied.

B) The following equation 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)(AB) of this Section.



Wherewhere:

N

 $\frac{VOM_{(i)(A)}}{I} = \frac{1}{I}$ 

The weighted average VOM content in units of percent VOM by volume of all coatings and inks (minus water and any compounds which are specifically exempted from the definition of VOM)used each day;

Subscript denoting a specific coating or ink as applied;

The number of different coatings and/or inks as applied each day on a printing line;

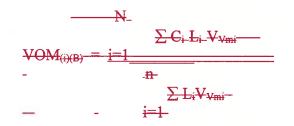
The VOM content in units of percent VOM by volume of each coating or ink as applied (minuswater and any compounds which are specifically exempted from the definition of VOM);

- Li =
   The liquid volume of each coating or ink as applied in units of 1 (gal);

   V<sub>si</sub> =
   The volume fraction of solids in each coating or ink as applied; and

   V<sub>voMi</sub> =
   The volume fraction of VOM in each coating or ink
- B2) The following equation 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 insubsection (a)(12)(B) of this Section.

as applied.



Wwhere:

<del>VOM<sub>(i)(B)</sub> =</del>	The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;
<del>I=</del>	Subscript denoting a specific coating or ink as- applied;
<del>n –</del>	The number of different coatings and/or inks as applied each day on each printing line;
€ <sub>i</sub> =	The VOM content in units of percent VOM by volume of the volatile matter in each coating or inkas applied;
Ŀ <sub>i</sub> =	The liquid volume of each coating or ink as applied in units of 1 (gal) and

 $V_{Vmi}$  = The volume fraction of volatile matter in each coating or ink as applied.

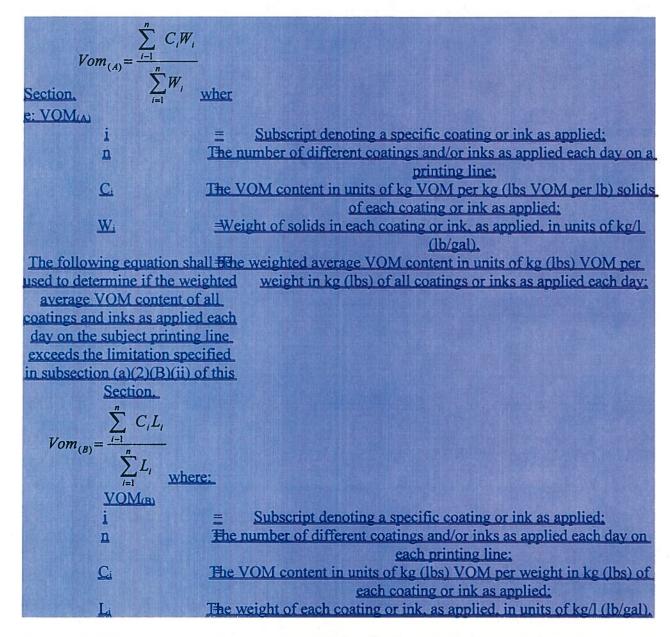
VOM(i)(B)

= The weighted average VOM content in units of percent VOM.

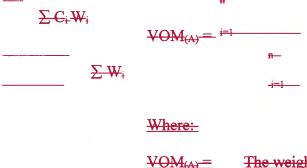
	by volume of the volatile content of all coatings and inks used.
	each day:
i	Subscript denoting a specific coating or ink as applied:
<u>n</u>	The number of different coatings and/or inks as applied each
	day on each printing line;
<u>C</u> i	= The VOM content in units of percent VOM by volume of the
	volatile matter in each coating or ink as applied;
Li	The liquid volume of each coating or ink as applied in units of
	l (gal) and
Vvmi	<u>= The volume fraction of volatile matter in each coating or ink</u>
	as applied.

- 2) On and after May 1, 2010, no owner or operator of a subject flexographic or rotogravure printing line that does not print flexible packaging shall apply coatings or inks on the subject printing line unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line does not exceed the limitation specified in either subsection (a)(2)(A)(i) (calculated in accordance with the equation in subsection (b)(1)(A)) or subsection (a)(2)(A)(ii) (calculated in accordance with the equation in subsection (b)(1)(A)) or subsection (b)(1)(B)) of this Section. Compliance with this subsection (b)(2) 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) On and after May 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, shall apply coatings or inks on the subject printing line unless the weighted average, by weight, VOM content of all coatings and inks as applied each day on the subject printing line does not exceed the limitation specified in either subsection (a)(2)(B)(i) (calculated in accordance with the equation in subsection (b)(3)(A)) or subsection (a)(2)(B)(ii) (calculated in accordance with the equation in subsection (b)(3)(B)) of this Section. Compliance with this subsection (b)(3) 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 shall We weighted average VOM content in units of kg VOM per kg (lbs 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)(i) of this



A) <u>The following equation 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)(i) of this Section.</u>

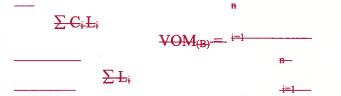


<u>B)</u>

The weighted average VOM content in units of kg

<u>VOM per kg (lbs VOM per lb) solids of all coatings</u> and inks used each day;

- I = Subscript denoting a specific coating or ink as applied;
  - The number of different coatings and/or inks as applied each day on a printing line;
- $\frac{W_{i=}}{W_{i=}} \qquad \frac{W_{eight of solids in each coating or ink, as applied,}{in units of kg/l (lb/gal).}$
- B) The following equation 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.



<del>n –</del>

#### Where:

<u>VOM(⊞)</u> =	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;
<u>L=</u>	<u>Subscript denoting a specific coating or ink as</u> applied;
<u>n</u>	The number of different coatings and/or inks as applied each day on each printing line;
<u>C;=</u>	The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;

The weight of each coating or ink, as applied, in units of kg/l (lb/gal).

c) Capture <u>System and Control Device Requirements</u>system and control device requirements.

<del>1)</del>

 $L_{+}=$ 

1) Prior to May 1, 2010, <u>noNono</u> owner or operator of a subject flexographic, packaging rotogravure or publication flexographicor\_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 I(c)(1)(A), (c)(1)(B)(2), or (c)(131)(C), as well <u>asandas</u> subsections (c)(141)(D), (c)(5), and (c)(6) below.

#### A4<u>One of:</u>

- A carbon adsorption system is used which that reduces the captured VOM emissions by at least 90 percent by weight; or
- B2ii) An incineration system is used which that reduces the captured VOM emissions by at least 90 percent by weight; or
- <u>C3iii)</u>) An alternative VOM emission reduction system is used whichthat 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
- D4B) The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:
  - iAi) 75 percent where a publication rotogravure printing line is employed; or
  - iiBii) 65 percent where a packaging rotogravure printing line is employed or
  - iiiCiii) 60 percent where a flexographic printing line is employed;
- 2) On and after May 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 shall operate the subject printing line unless the owner or operator meets the requirements in subsection <u>L(c)(1)(A)</u>, (c)(1)(B), or (c)(1)(C), as well as subsections (c)(1)(D), (c)(5), and (c)(6) of this Section;
  - 3) On and after May 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 shall operate the subject printing line unless the owner or operator meets the

requirements in subsections  $\underline{I(c)}(5)$  and  $\underline{I(c)}(6)$  of this Section and the capture system and control device provides an overall reduction in VOM emissions of at least:

- $\mathbf{A}$
- A) 65 percent in cases wherein which a subject printing line was first constructed at the subject source prior to March 14, <u>1995,1995</u> and utilizes a control device that was first constructed at the subject source prior to January 1, 2010; or
- B) 70 percent <u>wherewhen</u> a subject printing line was first constructed at the subject source prior to March 14, <u>1995,1995</u> and utilizes a control device that was first constructed at the subject source on or after January 1, 2010; or
- C) 75 percent <u>wherewhen</u> a subject printing line was first constructed at the subject source on or after March 14, <u>1995,1995</u> and utilizes a control device that was first constructed at the subject source prior to January 1, 2010; or
- D) 80 percent wherewhen a subject printing line was first constructed at the subject source on or after March 14, <u>1995,1995</u> and utilizes a control device that was first constructed at the subject source on or after January 1, 2010;
- On and after May 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 shall be subject to the requirements of either subsection <u>H(c)(1)(D)</u> or subsection <u>H(c)(3)</u> of this Section, whichever is more stringent, as well as subsections <u>H(c)(5)</u> and <u>H(c)(6)</u> of this Section;
- 5) The control device is equipped with the applicable monitoring equipment specified in Section 218.105(d)(2) of this Part and except as 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
- 6) The capture system and control device are operated at all times when the subject printing line is in operation. The owner or operator shall demonstrate compliance with this subsection by using the applicable capture system and control device test methods and procedures specified in Section 218.1054(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 Section 218.4014(c)(2) or 218.4014(c)(1)(D) of this Section that performed all testing necessary to demonstrate

compliance with Section 218.401 $\frac{1}{(c)}(1)(D)$  prior to May 1, 2010,2010 is not required to retest pursuant to this subsection  $\frac{1}{(c)}(6)$ . The owner or operator of a printing line subject to the requirements in Section 218.401 $\frac{1}{(c)}(3)$  shall perform testing in compliance with this subsection  $\frac{1}{(c)}(6)$ , even if the owner or operator already performed such testing prior to May 1, 2010, unless the following conditions are met. Nothing in this subsection  $\frac{1}{(c)}(6)$ , however, shall limit the Agency's ability to require that the owner or operator perform testing pursuant to <u>Section35 Ill. Adm.</u> <u>Code</u> 201.282:

- <u>A)</u>On or after May 1, 2000, the owner or operator of the subject printing line performed all testing necessary to demonstrate compliance with Section 218.401<u>(c)(1)(D);</u>
- B) Such testing also demonstrated an overall control efficiency equal to or greater than the applicable control efficiency requirements in Section 218.401 (c)(3);
- C) The owner or operator submitted the results of such <u>test(s)tests</u> to the Agency, and the <u>test(s) wastests were</u> not rejected by the Agency;
- D) The same capture system and control device subject to the tests referenced in subsection  $\underline{I(c)}(6)(A)$  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  $218.404(e)(1)(B)_{24}$
- d) No owner or operator of subject flexographic or rotogravure printing <u>line(s)lines</u> that print flexible packaging or print flexible packaging and non-flexible packaging on the same line shall cause or allow VOM containing cleaning materials, including used cleaning towels, associated with the subject flexographic or rotogravure printing <u>line(s)lines</u> 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 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.402 Applicability

<del>a)</del>

A)

a) Except as otherwise provided in Section 218.401, <u>the Thethe</u> limitations of Section 218.401 of this <u>SubpartPartSubpart</u> apply to all flexographic and rotogravure printing lines at a subject source. Sources with flexographic and/or rotogravure printing lines are subject sources if:

#### 1)

- 1) Total maximum theoretical emissions of VOM from all flexographic and rotogravure printing line(s)lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing line(s)lines) at the source ever exceed 90.7 Mg (100 tons) per calendar year and the flexographic and rotogravure printing line(s)lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing line(s)lines (including solvents used for cleanup operations associated with flexographic and rotogravure printing line(s)lines) at the source are not limited to less than 90.7 Mg (100 tons) of VOM emissions per calendar year 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 <u>line(s)lines</u> (including solvents used for cleanup operations associated with flexographic and rotogravure printing <u>line(s)lines</u>) at the source have a potential to emit 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 <u>line(s)lines</u> 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 6.8 kg/day (15 lbs/day) or more (including solvents used for cleanup operations associated with flexographic and rotogravure printing <u>line(s)lines</u>), in the absence of air pollution control equipment.
- **Cbc**) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet Subpart G (Sections 218.301 or 218.302 of this Part). Flexographic and rotogravure printing lines exempt from this Subpart are subject to Subpart G (Sections 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.
- ded) 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.
- Edc) 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 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.403 Compliance Schedule

Every owner or operator of a flexographic and/or rotogravure printing line shall comply

with the applicable requirements of Section 218.401 and Section 218.404 of this Part in accordance with the applicable compliance schedule(s)schedules specified in subsection (a), (b), (c), or (d), (e), (f), or (g)-below:

a) No owner or operator of a flexographic or rotogravure printing line which that is exempt from the limitations of Section 218.401 of this Part because of the criteria in Section 218.402(a) 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 218.404(b) of this Part.

<del>a)</del>

- 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.
- c) 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)(D) 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 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(a)(2), (b)(2), or (b)(3) or complying by means of Section 218.401(c)(2), (c)(3), or (c)(4), shall operate <u>saidthe</u> printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 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.
- f) 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, shall operate <u>saidthe</u> printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 218.401(d) and Section 218.404(g) of this Part.
- g) 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 <u>whichthat</u> is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) of this Part shall operate saidthe printing line on or after May 1, 2010, unless the owner or operator has

complied with, and continues to comply with, Section 218.402(b) and Section 218.404(f) of this Part.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

## Section 218.404 Recordkeeping and Reporting a)

A)

- a) The VOM content of each coating and ink and the efficiency of each capture system and control device 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) of this Part shall comply with the following:
   1)
- 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 May 1, 2010, the owner or operator of a flexographic <u>orandor</u> rotogravure printing line to which this subsection (b) 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. Such certification 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 which demonstrate 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 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 shall be used to calculate total maximum theoretical emissions of VOM per calendar year before 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:

 $E_{\rm P} = Total maximum theoretical emissions of VOM from one$ 

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/1 (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 1/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 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 kgKg/l (lbs VOM/gal) of such material;

D = The greatest volume of cleanup material or solvent used in any 8-hour period and

F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.

$E_p = A \times B + 1095 (C \times D \times F)$ whe	= Total maximum theoretical emissions of VOM from one
$L_p = A \times D + 1000 (C \times D \times 1)$ whe	re:E <sub>p</sub> 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/I (lbs VOM/gal) of coating or ink
	solids;
B	Fotal 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 instrument and/or method by which the
	owner or operator accurately measured or calculated the
	volume of each coating and 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:
<u>C</u>	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 8-
	hour period:

2) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a flexographic and rotogravure printing line referenced in this subsection shall 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:

E

#### A)

<u>A)</u>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, 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) 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 the application of capture systems and control devices by sending a copy of 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 by means of Section 218.401(a) of this Part shall comply with the following:

<del>1)</del>

1) By a date consistent with Section 218.106 of this Part, or Section 218.403(e), as applicable, or upon initial start-up of a new printing line, or upon changing the method of compliance 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 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(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) shall certify in accordance with this subsection (c)(1) even if the owner or operator of such line submitted a certification prior to January 1, 2010. Such certification shall include:

<u>A)</u> 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(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 by means of Section 218.401(a) 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)

<u>A)</u>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.
- On and after a date consistent with Section 218.106 of this Part, or Section 218.403(e), as applicable, the owner or operator of a subject printing line shall notify the Agency in the following instances:
  - <u>A)</u> Any record showing violation of Section 218.401(a) of this Part shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.

A)

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 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 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 shall comply with all requirements of subsection (d) or (e) of this Part to Section 218.401(b) or (c) of this Part, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.

Any owner or operator of a printing line subject to the limitations of Section 218.401 of this Part and complying by means of Section 218.401(b) shall comply with the following:

1)

1) By a date consistent with Section 218.106 of this Part, or 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 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 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) shall certify in accordance with this subsection (d)(1) even if the owner or operator of such line submitted a

certification prior to January 1, 2010. Such certification shall include:

- A) The name and identification number of each printing line which will comply 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 <u>instrument or method</u> by which the owner or operator will accurately <u>measure or calculate</u> the volume, or weight of solids, as applicable, of each coating and ink as applied each day on each printing line.
  - 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 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 by means of Section 218.401(b) 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

<u>A)</u> 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.
- C) The daily-weighted average VOM content of all coatings and inks as applied on each printing line.
- On and after a date consistent with Section 218.106 of this Part, or Section 218.403(e), as applicable, the owner or operator of a subject printing line shall notify the Agency in the following instances:

<u>A)</u> Any record showing violation of Section 218.401(b) of this Part shall be reported by sending a copy of such record to the Agency within 30 days 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(b) of this Part to Section 218.401(a) or 218.401(c) of this Part, the owner or operator shall 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 shall comply with all requirements of subsection 218.401(b) of this Part to Section 218.401(a) or (c) of this Part, the owner or operator shall 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 by means of Section 218.401 (c) of this Part shall comply with the following:
  - +)
  - By a date consistent with Section 218.106 of this Part, or 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 shall either:
    - **<u>Perform</u>** <u>A</u>) <u>Perform</u> 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 218.4014(c) of this Part on and after a date consistent with Section 218.106,218.106 of <u>this Part</u>, or Section 218.403(e), as applicable, or on and after the initial start-up date; or
    - B) If not required to perform such testing pursuant to Section 218.401 (c)(6), submit a certification to the Agency that includes:
      - i) A declaration that the owner or operator is not required to perform testing pursuant to Section 218.401 (c)(6);
      - ii) The <u>date(s)</u>dates that testing demonstrating compliance with Section 218.401<u>I(c)(3)</u> was performed; and
      - iii) The <u>date(s)dates</u> that the 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(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 by means of Section 218.401 (c) of this Part shall collect and record all of the following information each day for each printing line and

<u>A</u>

i)

maintain the information at the facility for a period of three years:

A) Control device monitoring data.

A)

A)

- 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(e), as applicable, the owner or operator of a subject printing line shall notify the Agency in the following instances:
  - <u>A)</u> Any record showing violation of Section 218.401 (c) of this Part, shall be reported by sending a copy of such record to the Agency within 30 days 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 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 shall comply with all requirements of subsection 218.401(c) of this Part to Section 218.401(a) or (b) of this Part, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.
  - 4) By May 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)(3) or (c)(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 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 <u>whichthat</u> is exempt from the limitations of Section 218.401(d) because of the criteria in Section 218.402(b) shall:
- 1)

1) By May 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) <u>A</u> 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 which that demonstrate that combined emissions of VOM from all flexographic and rotogravure printing lines (including inks and solvents used for cleanup operations associated with such printing lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment; and
- 2) 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), in the absence of air pollution control equipment, within 30 days after the event occurs

g) Any owner or operator of a printing line subject to the limitations of Section 218.401(d) shall:

- 1) By May 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 such violations to the Agency within 30 days following the occurrence of the violation.
- h) All records required by subsections (f) and (g) of this Section shall be retained for at least three years and shall be made available to the Agency upon request.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.405 Lithographic Printing: Applicability

- a) Until March 15, 1996, the limitations of Section 218.406 of this Subpart apply to all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with the heatset web offset lithographic printing line(s)) at a source subject to the requirements of this Subpart. All sources with heatset web offset lithographic printing lines are sources subject to the requirements of this Subpart unless:
  - 1) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations-

1)

associated with the heatset web offset lithographic printing line(s)) at the source never exceed 90.7 Mg (100 tons) per calendar year in the absence of air pollution control equipment; or

- 2) A federally enforceable permit or SIP revision for all heatset web offset lithographic printing line(s) at a source requires the owner or operator to limit production or capacity of these printing line(s) to reduce total VOM emissions from all heatset web offset lithographic printing line(s) to 90.7-Mg (100 tons) per calendar year or less in the absence of air pollution control equipment.
- b) Any owner or operator of any heatset web offset lithographic printing line that is exempt from the limitations in Section 218.406 of this Subpart because of the criteria in subsection (a) of this Section shall be subject to the recordkeeping and reporting requirements in Section 218.406(b)(1) of this Subpart.
- <u>Ac</u>) On and after March 15, 1996, <u>Everyevery owner or operator of lithographic</u> <u>printing line(s)a</u>) <u>Every owner or operator of lithographic printing lines</u> is subject to the recordkeeping and reporting requirements in Section 218.411 of this Subpart.
  - Bd) On and after March 15, 1996, b) Prior to May 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 line(s) lines unless:
    - <del>A)</del>
    - 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<sup>2</sup>'s total maximum theoretical emissions of VOM for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.411(a)(1)(C)<sup>406(b)(1)(A)(ii)</sup> of this Subpart; or
    - B) Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing <u>line(s)lines</u> at the source requires the owner or operator to limit production or capacity of these printing <u>line(s)lines</u> 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 heatset web offset, non-heatset web offset, or

sheet-fed offset lithographic printing line(s)lines, unless the combined emissions of VOM from all lithographic printing line(s)lines at the source (including solvents used for cleanup operations associated with the lithographic printing line(s)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.

On and after May 1, 2010:

1) The requirements in SectionsSection 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 line(s)lines, if the combined emissions of VOM from all lithographic printing line(s)lines at the source (including solvents used for cleanup operations associated with the lithographic printing line(s)lines) ever exceed 45.5 kg/day (100 lbs/day), calculated in accordance with Section 218.411(b)(2)(B), before the application of capture systems and control devices;

- 2) The requirements in <u>SectionsSection</u> 218.407(a)(1)(A) and 218.407(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 <u>line(s)lines</u> if the combined emissions of VOM from all lithographic printing <u>line(s)lines</u> at the source (including solvents used for cleanup operations associated with the lithographic printing <u>line(s)lines</u>) ever equal or exceed 6.8 kg/day (15 lbs/day), calculated in accordance with Section 218.411(b)(1)(B), before the application of capture systems and control devices;
- 3) Notwithstanding subsection I(c)(2) of this Section, at sources where the combined emissions of VOM from all lithographic printing line(s)lines at the source (including solvents used for cleanup operations associated with the lithographic printing line(s)lines) equal or exceed 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), calculated in accordance with Section 218.411(b)(1)(B), before the application of capture systems and control devices, the following exclusions shall apply unless the owner or operator of the source certifies pursuant to Section 218.411(g)(1)(B) that the source will not make use of any such exclusions:

A) The requirements of <u>SectionsSection</u> 218.407(a)(1)(A), 218.407(a)(2), and 218.407(a)(3) of this Subpart shall not apply to lithographic printing <u>line(s)lines</u> with a total fountain solution reservoir of less than 3.8 liters (1 gallon);

c) <del>1)</del>

A)

- B) The requirements of Section 218.407(a)(3) of this Subpart shall not apply to sheet-fed offset lithographic printing <u>line(s)lines</u> with maximum sheet size of 11x17 inches or smaller;
- C) The requirements of Section 218.407(a)(4) of this Subpart shall not apply to up to a total of 416.3 liters (110 gallons) per year of cleaning materials used on all lithographic printing lines at the source;
- D) The requirements of Section 218.407(a)(4)(A)(i) shall not apply to lithographic printing lines at the source. Instead, the requirements of Section 218.407(a)(4)(A)(ii) shall apply to such lines.
- Ded) If a lithographic printing line at a source is or becomes subject to one or more of the limitations in Sections 218.406 or Section 218.407 of this Subpart, the lithographic printing line(s)lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior toMarch to March 15, 1996 (Repealed)

- a) Emission Standards and Limitations. No owner or operator of a heatset web offset printing line at a source that meets or exceeds the applicability levels in Section 218.405(a) of this Subpart may cause or allow the operation of such heatset web offset printing line(s) unless the owner or operator meets the requirements in subsections (a)(1) or (a)(2) of this Section and the requirements in subsections (a)(3) and (a)(4) of this Section. The owner or operator shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in Section 218.105(a), (d), and (f) of this Part and by complying with the recordkeeping and reporting requirements specified in subsection (b) of this Section.
  - 1) An afterburner system is installed and operated that reduces 90 percent of the VOM emissions (excluding methane and ethane) from the dryer exhaust; or
  - 2) The fountain solution contains no more than 8 percent, by weight, of VOM and a condensation recovery system is installed and operated that removes at least 75 percent of the non-isopropyl alcohol organic materials from the dryer exhaust; and
  - 3) The control device is equipped with the applicable monitoring equipmentspecified in Section 218.105(d)(2) of this Part and the monitoringequipment is installed, calibrated, operated and maintained according to

manufacturer's specifications at all times when the control device is in use; and

- 4) The control device is operated at all times when the printing line is in operation.
- b) Recordkeeping and Reporting. The VOM content of each fountain solution and ink and the efficiency of each control device 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 subsection.
  - 1) Any owner or operator of a lithographic printing line which is exempted from the limitations of subsection (a) of this Section because of the criteria in 218.405(a) of this Subpart shall comply with the following:
    - A) By a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall certify to the Agency that the heatset web offset lithographic printing line is exempt under the provisions of Section 218.405(a) of this Subpart. Such certification shall include:
      - A declaration that the heatset web offset lithographicprinting line is exempt from the limitations of subsection-(a) of this Section because of the criteria in Section-218.405(a) of this Subpart; and
      - ii) Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. 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/1 (lb/gal) of solids;
- B = Total volume of solids for all inks that canpotentially be applied each year on the printing line in units of 1/yr (gal/yr). The instrument or method by which the owner or operator accurately measured or 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 solutionwith the highest VOM content as applied each yearon the printing line in units of kg/l (lb/gal);
- D = The total volume of fountain solution that canpotentially be used each year on the printing line inunits of 1/yr (gal/yr). The instrument and/or methodby which the owner or operator accurately measuredor calculated the volume of each fountain solutionused and the amount that can potentially be usedeach year on the printing line shall be described inthe 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 solventused in any 8-hour period; and
- H = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.

<del>B)</del>

On and after a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall 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:

- i) The name and identification of each fountain solution and ink as applied on each printing line; and
- ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.
- C) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart shall notify the Agency of any recordshowing that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines exceed 90.7 Mg (100 tons) in any calendar year in the absence of air pollution control equipment by sending a copy of such record to the Agency within 30 days after the exceedence occurs.

2) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(1) of this Section shall comply with the following:

 A) By a date consistent with Section 218.106 of this Part, or uponinitial start-up of a new printing line, or upon changing the methodof compliance for an existing printing line from subsection (a)(2)to (a)(1) of this Section, perform all tests and submit to the Agencythe results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section-218.106 of this Part, or on and after the initial start-up date;

B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:

i) Control device monitoring data;

ii) A log of operating time for the control device, monitoring equipment and the associated printing line; and

- iii) A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages;
- C) On and after a date consistent with Section 218.106 of this Part, notify the Agency in the following instances:
  - i) Any violation of subsection (a)(1) of this Section shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
  - Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation; and
  - At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(1) to (a)(2) of this Section, the owner or operator shall comply with all requirements of subsection (b)(3) of this Section.
- 3) Any owner or operator of a printing line subject to the limitations of subsection (a) of this Section and complying by means of subsection (a)(2) of this Section shall:
  - A) By a date consistent with Section 218.106 of this Part, or uponinitial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(1) to (a)(2) of this Section, perform all tests and submit to the Agencyand the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliancewith subsection (a)(2) of this Section on and after a date consistentwith Section 218.106 of this Part, or on and after the initial start-up date;
  - B) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start up date, collect and record the following information each day for each printing line and maintain the information at the source for a period of three years:
    - i) The VOM content of the fountain solution used each day on

#### each printing line;

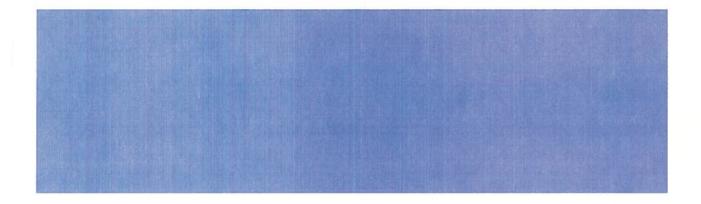
- ii) A log of operating time for the control device and the associated printing line; and
- A maintenance log for the control device detailing allroutine and non-routine maintenance performed includingdates and duration of any outages;
- C) On and after a date consistent with Section 218.106 of this Part, notify the Agency in the following instances:
  - i) Any violation of subsection (a)(2) shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
  - Any record showing a violation of subsection (a)(2) of this
     Section shall be reported by sending a copy of such recordto the Agency within 30 days following the occurrence of the violation; and
  - At least 30 calendar days before changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2)(A) of this Section. Upon changing the method of compliance with subsection (a) of this Section from subsection (a)(2) to (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2) to (a)(1) of this Section, the owner or operator shall comply with all requirements of subsection (b)(2) of this Section.

c) Compliance Schedule. Every owner or operator of a heatset web offset lithographic printing line shall comply with the applicable requirements of subsections (a) and (b) of this Section in accordance with the applicable compliance schedule specified in subsections (c)(1), (c)(2), or (c)(3) of this Section:

- 1) No owner or operator of a heatset web offset lithographic printing line which is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405 (a) of this Subpart 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, Sections 218.405(a) and 218.406(b)(1) of this Subpart.
- 2) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(1) of this Section 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, subsections (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.

3) No owner or operator of a heatset web offset lithographic printing line complying by means of subsection (a)(2) of this Section 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, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section.



(Source: Repealed at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996

- a) On and after March 15, 1996, noNoNo owner or operator of lithographic printing line(s)lines subject to the requirements of this Subpart 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 percent or less, by <u>weightvolume; weight:</u>
      - ii) 3 percent or less, by <u>weightvolumeweight</u>, and the temperature of the fountain solution is maintained below 15.6<sup>e</sup>C<sup>o</sup>C (60<sup>eo</sup> F), measured at the reservoir or the fountain tray; or

- iii) 5 percent or less, by <u>weightvolumeweight</u>, and the asapplied fountain solution contains no alcohol;
- B) The air pressure in the dryer is maintained lower than the air pressure of the press room, 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 exhaust(s) are reduced as follows:
  - i) Prior to May 1, 2010, by 90 percent, by weight, or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon); and
  - ii) On and after May 1, 2010, by at least 90 percent, by weight, for afterburners first constructed at the source prior to January 1, 2010; by at least 95 percent, by weight, for afterburners first constructed at the source on or after January 1, 2010; 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 <u>Subpartis equipped with theapplicable monitoring equipment specified in Section-218.105(d)(2) of this Part and the monitoring equipment isinstalled, calibrated, operated, and maintained according tomanufacturer's specifications at all times when the afterburner is inuse<u>Subpart</u>; and</u>
- E) The afterburner is operated at all times when the printing line is in operation, except the afterburner may be shut down between November 1 and April 1 as provided in Section 218.107 of this Part;
- 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 percent or less, by <u>weightvolumeweight</u>, 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 percent or less, by <u>weightvolumeweight</u>; or

- B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by weightvolumeweight, and the temperature of the fountain solution is maintained below 15.6°° C (60°° F), measured at the reservoir or the fountain tray;
- Cause or allow the use of a cleaning solution on any lithographic printing 4) line unless:
  - A) The VOM content of the as-used cleaning solution is less than or equal to:
  - 30 percent, by weight; or i)
    - ii) On and after May 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 218.405(c)(3) and do not certify pursuant to Section 218.411(g)(1)(B) that the source will not make use of any of the exclusions in Section 218.405(c)(3), 70 percent, by weight; or
  - B) The VOM composite partial vapor pressure of the as-used cleaning solution is less than 10 mmHg at  $20^{\circ}C$  (68°F° F);
- Cause or allow VOM containing cleaning materials, including used 5) 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:
  - The control device reduces VOM emissions from the press dryer 1) exhaust(s)exhausts as follows:
- A) Prior to May 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 May 1, 2010:

- i) By at least 90 percent, by weight, for control devices first constructed at the source prior to January 1, 2010;
- By at least 95 percent, by weight, for control devices first ii) constructed at the source on or after January 1, 2010; or

- iii) To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
- 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 with testing, monitoring, and recordkeeping in accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

# Section 218.408 Compliance Schedule for Lithographic Printing On and After March 15, 1996 (Repealed)

- a) Every owner or operator of a lithographic printing line subject to one or more of the control requirements of Section 218.407 of this Subpart shall comply with the applicable requirements of Sections 218.407 through 218.411 of this Subpart on and after March 15, 1996, or upon initial start-up, whichever is later.
- b) No owner or operator of a lithographic printing line which is exempt from the limitations of Section 218.407 of this Subpart because of the criteria in Section 218.405(d) of this Subpart, shall operate said printing line on or after March 15, 1996, unless the owner or operator has complied with, and continues to comply with, Sections 218.405(d) and 218.411(a) of this Subpart.

(Source: Repealed at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.409 Testing for Lithographic Printing On and After March 15, 1996

- a) Testing to demonstrate compliance with the requirements of Section 218.407 of this Subpart shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart.\_ Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting such testing to allow the Agency to be present during such testing.
- b) The methods and procedures of Section 218.105(d) and (f) 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, incorporated by reference at Section 218.112 of this Part. The sampling sites for determining efficiency in reducing VOM from the

dryer exhaust 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, 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, 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:
  - 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 shall be conducted using either 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, 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) Notwithstanding the criteria or requirements in Method 25 which that specifies a minimum probe temperature of 129<sup>e</sup> <u>C</u> (265<sup>e</sup> <u>C</u>), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7<sup>e</sup>C <u>C</u> (350<sup>e</sup> <u>C</u>);
- 5) During testing, the printing <u>line(s)lines</u> 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, shall be used to demonstrate 100 percent emissions capture efficiency for the dryer in accordance with Section 218.407(a)(1)(B) of this Subpart.

- 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 (pursuant to the requirements of Section 218.411(a)(1)(B)-), (b)(1)(B), or (b)(2)(B) of this Subpart, as applicable), shall be conducted upon request of the Agency+ or as otherwise specified in this Subpart, as follows:
  - The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, 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 such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 218.407(b) of this Subpart shall be conducted as set forth in the owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions 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 shall be conducted in accordance with the applicable methods and procedures specified in Section 218.110 of this Part.

(Source: Amended at 34 Ill. Reg.\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.410 Monitoring Requirements for Lithographic Printing

- a) Fountain Solution Temperature.
  - 1) The owner or operator of any lithographic printing <u>line(s)lines</u> relying on the temperature of the fountain solution to demonstrate compliance 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  $1^{\circ}C \circ C$  or  $2^{\circ}C \circ C$ , 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 accordance with the manufacturer's specifications. If the automatic, continuous recording device malfunctions, the owner or operator shall record the temperature of the fountain solution at least once every two operating hours. The automatic, continuous recording device shall be repaired or replaced as soon as practicable.

- b) Fountain Solution VOM Content. The owner or operator of any lithographic printing <u>line(s)lines</u> subject to Section 218.407(a)(1)(A), (a)(2) or (a)(3) 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 accordance with Section 218.411(eee)(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:
      - With a refractometer or hydrometer with a visual, analog, or digital readout and with an accuracy of 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 accordance with manufacturer's specifications, against measurements performed to determine compliance. The refractometer or hydrometer must be corrected for temperature at least once per 8-hour shift or once per batch of fountain solution prepared or modified, whichever is longer; or
      - 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 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 shall be used to

calibrate the conductivity meter for the type of VOM used in the fountain solution, in 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 of the VOM content of the fountain solution in accordance with Section 218.411(eeg)(2)(D) of this Subpart. The equipment used to make automatic additions must be installed, calibrated, operated and maintained in accordance with manufacturer's specifications.
- c) Afterburners For Heatset Web Offset Lithographic Printing Line(s). 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) of this Subpart shall:
  - Install, calibrate, maintain, and operate temperature monitoring device(s)devices with an accuracy of 3<sup>eo</sup> C or 5<sup>eo</sup> F on the afterburner in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the afterburner is operating; and
  - Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device(s)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 Line(s). 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 shall install, maintain, calibrate and operate such monitoring equipment as set forth in the owner or operator's plan approved by the Agency and USEPA pursuant to Section 218.407(b) of this Subpart.

- e) Cleaning Solution.
  - 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 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 usage of cleaning solvent and water (or other non-VOM) as set forth in Section 218.411(fdf)(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 such cleaning solutions used on any such line(s)lines as set forth in Section 218.411(fdf)(2)(C) of this Subpart.

(Source: Amended at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

### Section 218.411 Recordkeeping and Reporting for Lithographic Printing

- a) Exempt units prior to May 1, 2010. An owner or operator of lithographic printing line(s)lines exempt from the limitations of Section 218.407 of this Subpart prior to May 1, 2010, because of the criteria in Section 218.405(bdb) of this Subpart, shall comply with the following:
  - By March 15, 1996, <u>UponuponUpon</u> 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(bdb) of this Subpart;
    - B) Calculations which 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;
- 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 line(s)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 line(s)lines; and
- iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing <u>line(s)lines</u> 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 TPY). To determine the source's total maximum theoretical emissions for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.406(b)(1)(A)(ii) of this Subpart; and 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:

- $E_p = \frac{\text{Total maximum theoretical emissions of VOM from one}}{\text{heatset web offset printing line in units of kg/yr (lb/yr);}}$
- <u>A = Weight of VOM per volume of solids of ink with the</u> <u>highest VOM content as applied each year on the printing</u> <u>line in units of kg/l (lb/gal) of solids;</u>
- <u>B</u> = <u>Total volume of solids for all inks that can potentially be</u> <u>applied each year on the printing line in units of 1/yr</u> (gal/yr). The method by which the owner or operator <u>accurately calculated the volume of each ink as applied and</u> <u>the amount that can potentially be applied each year on the</u> <u>printing line shall be described in the certification to the</u> <u>Agency;</u>
- <u>C</u> = <u>Weight of VOM per volume of fountain solution with the</u> <u>highest VOM content as applied each year on the printing</u> <u>line in units of kg/l (lb/gal);</u>
- D = The total volume of fountain solution that can potentially be used each year on the printing line in units of 1/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;
- <u>G</u> = <u>The greatest volume of cleanup material or solvent used in</u> <u>any 8-hour period; and</u>
- <u>H=</u> <u>The highest fraction of cleanup material or solvent which is</u> <u>not recycled or recovered for offsite disposal during any 8</u>

# hour period.

D
X

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;  $E_p = (R \times A \times B) + (C \times D) + 1095 (F \times G \times H)$ 

where: E <sub>p</sub>		Fotal 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	Tetal volume of solids for all inks that can potentially be applied each year on the printing line in units of 1/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:
	2	=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 1/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:
	E	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:
	Н	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(c)(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 May 1, 2010.
  - 1) Lithographic printing lines exempt pursuant to Section 218.405(c)(2). By May 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 <u>line(s)lines</u> exempt from the limitations in Section 218.407 of this Subpart because of the criteria in Section 218.405(c)(2) of this Subpart shall submit a certification to the Agency that includes the information specified in either subsections (b)(1)(A), (b)(1)(B), and (b)(1)(D) of this Section; or subsections (b)(1)(A) and (b)(1)(C) of this Section, as applicable. An owner or operator complying with subsection (b)(1)(E) of this Section. An owner or operator complying with subsection (b)(1)(C) shall also comply with the requirements in subsection (b)(1)(C) shall also comply with the requirements in subsection (b)(1)(F) of this Section:
    - A) A declaration that the source is exempt from the requirements in Section 218.407 of this Part because of the criteria in Section 218.405(c)(2) of this Subpart;
    - B) Calculations whichthat demonstrate that combined emissions of VOM from all lithographic printing line(s)lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing line(s)lines) at the source do not equal or exceed 6.8 kg/day (15 lbs/day), before the use of capture systems and control devices, as follows:
      - 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 test 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 line(s)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 line(s)lines; and
- iv) To determine VOM emissions from cleaning solutions used on lithographic printing <u>line(s)lines</u> at the source, an emission adjustment factor of 0.50 shall be used 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° C (68°F° 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° C (68°F° 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 (b)(1)(B), above. a statement that the source uses less than the amount of material specified in subsectionssubsection (b)(1)(C)(i) or (ii), below, as applicable, during each calendar month. A source may determine that it emits below 6.8 kg/day (15 lbs/day) of VOM based upon compliance with 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 of 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. (b)(1)(C) as an alternative to the calculations in subsection (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 (b)(1)(B).

- 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 accordance with Section 218.409(c)(1) of this Subpart;
- E) For sources complying with subsection (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 solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source ever equal or exceed 6.8 kg/day (15 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. If such emissions of VOM at the source equal or exceed 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), the source shall comply with the requirements in subsection (b)(2) of this Section.
- F) For sources complying with subsection (b)(1)(C) of this Section, comply with the following:
  - Maintain material use records showing that the source uses less than the amount of material specified in subsections (b)(1)(C)(i) and (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 did not emit 6.8 kg/day (15 lbs/day) or more of VOM;
  - 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)(C) to subsection (b)(1)(B) of this Section, within 30 days after the event occurs;

- Heatset web offset lithographic printing lines exempt pursuant to Section 218.405(c)(1) but not exempt pursuant to Section 218.405(c)(2). By May 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 line(s) lines that are exempt from the limitations in Section 218.407 of this Subpart pursuant to the criteria in Section 218.405(c)(1) of this Subpart, but that are not exempt pursuant to the criteria in Section 218.405(c)(2) of this Subpart, shall submit a certification to the Agency that includes the information specified in subsections (b)(2)(A) through (b)(2)(C) of this Section. Such owner or operator shall also comply with the requirements in subsection (b)(2)(D) of this Section:
  - 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(c)(1) of this Subpart, but is not exempt pursuant to the criteria in Section 218.405(c)(2) of this Subpart;
    - B) Calculations which 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 (the following methodology shall also be used to calculate whether a source exceeds 45.5 kg/day (100 lbs/day) for purposes of determining eligibility for the exclusions set forth in Section  $\frac{218.405218.415}{(c)(3)}$ , in accordance with <u>SectionSections</u> 218.411(g)(2)(A)(i):
      - To calculate daily emissions of VOM, the owner or i) 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 teststest methods and procedures set forth in Section 218.409(c) of this Subpart shall be used;

2)

To determine VOM emissions from inks used on lithographic printing <u>line(s)</u>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 <u>line(s)</u>-lines:

iii)

- iv) To determine VOM emissions from cleaning solvents used on lithographic printing line(s) lines at the source, an emission adjustment factor of 0.50 shall be used in calculating emissions from cleaning solution in shop towels if the VOM composite vapor pressure of such cleaning solution is less than 10 mmHg measured at 20°C° C (68°F° 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° C (68°F° 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 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 the use of capture systems and control devices, within 30 days after the event occurs.
- c2) Unless complying with subsections (b)(1)(C) and (b)(1)(F) of this Section, an owner or operator of lithographic printing <u>line(s)lines</u> subject to the requirements of subsection (a) or (b) of this Section shall-On and after March 15, 1996, collect

and record either the information specified in subsection (c)(1) or (c)(2)  $\frac{(a)(2)(A)}{(a)(2)(B)}$  of this Section for all lithographic printing lines at the source:

- 1A) Standard recordkeeping, including the following:
  - AiA) The name and identification of each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line, recorded each month;
  - **<u>BiiB</u>**) A daily record which shows whether a lithographic printing line at the source was in operation on that day;
  - <u>CiiiC</u>) 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;
  - **DivD**) 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; and
  - **EvE**) The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B), 218.411(b)(1)(B), or 218.411(b)(2)(B) of this Subpart, as applicable;
- **2B**) Purchase and inventory recordkeeping, including the following:
  - AiA) 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;
  - **BiiB**) 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;
  - **<u>CiiiC</u>**) Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
  - DivD) A daily record which shows whether a lithographic printing line at the source was in operation on that day;
  - $\underline{EvE}$ ) 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 pursuant to subsections (c)(2)(A), (c)(2)(B), and (c)(2)(C)(a)(2)(B)(i), (a)(2)(B)(ii) and (a)(2)(B)(iii) of this Section; and

- **Evi**E) The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B), 218.411(b)(1)(B), or 218.411(b)(2)(B) of this Subpart, as applicable:
- 3) On and after March 15, 1996, 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.
- <u>dbd</u>) An owner or operator of a heatset web offset lithographic printing <u>line(s)lines</u> subject to the control requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart shall comply with the following:
  - By May 1, <u>2010March 15, 1996,2010</u>, 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 such 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 pursuant to Section 218.409(b) of this Subpart, the owner or operator shall, within 90 days after conducting such 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 <u>line(s)lines</u> is 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 line(s)lines is or is 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 accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
- 3) On and after March 15, 1996, Except as provided in subsection (d)(3)(D)(ii) of this Section, collect and record daily the following information for each heatset web offset lithographic printing line subject to the requirements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart:
  - Afterburner or other approved control device monitoring data in 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 to <u>ensureinsureensure</u> compliance with the requirements of Section 218.407(a)(1)(B) of this Subpart as follows:

- i) Prior to May 1, 2010, at least once per 24-hour period while the line is operating; and
- ii) On and after May 1, 2010, at least once per calendar month while the line is operating:
- On and after March 15, 1996, <u>NotifynotifyNotify</u> 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 such violation. Such notification shall include a copy of all records of 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 accordance with subsection (b)(1) of this Section at least 30 days before making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s)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.
- An owner or operator of a lithographic printing line subject to Section 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart, shall:

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- By May 1, 2010, March 15, 1996, 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. Such certification 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; The VOMcontent limitation with which each fountain solution will comply;
  - D) Initial documentation that each type of fountain solution will comply with the applicable VOM content <u>limitation(s)limitations</u>, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;

- E) Identification of the method(s)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 pursuant to Section 218.411(ecc)(2) of this Subpart.
- 2) On and after March 15, 1996, <u>Collect</u> collect<u>Collect</u> 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 line(s)lines or centralized reservoir using such 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, 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 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, 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 and results;
  - C) If the VOM content of the fountain solution is determined pursuant to Section 218.410(b)(1)(A) of this Subpart, for each batch of asapplied 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 pursuant 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 accordance with the manufacturer<sup>2</sup>'s specifications; and

- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Sections 218.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart, as specified in the source<sup>2</sup>'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 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. Such notification shall include a copy of all records of such violation.; and

- 4) If changing its method of demonstrating compliance with the applicable VOM content limitations in Section 218.407 of this Subpart, or changing the method of demonstrating compliance with the VOM contentlimitations for fountain solutions pursuant to Section 218.409 of this-Subpart, certify compliance for such new method(s) in accordance with subsection (c)(1) of this Section within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that suchprinting line(s) will be in compliance with the applicable requirements of Section 218.407 of this Subpart.
- fdf) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to the requirements of Section 218.407 of this Subpart shall:
  - By May 1, <u>2010March 15, 1996,2010</u>, and upon initial start-up of a new lithographic printing line, certify to the Agency that all cleaning solutions, other than those excluded pursuant to Section 218.405(c)(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) of this Subpart, and such certification shall also include:
    - A) Identification of each VOM-containing cleaning solution used on each lithographic printing line;
    - $\underline{AB}$

A) A statement that the cleaning solution will comply with the limitations in Section 218.407(a)(4); The limitation with which each VOM-containing cleaning solution will comply, i.e., the VOM content or vapor pressure;

- C) Initial documentation that each VOM containing cleaning solution will comply with the applicable limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
- **BDB**) Identification of the method(s)methods that will be used to demonstrate continuing compliance with the applicable limitations;
- <u>CEC</u>) A sample of the records that will be kept pursuant to Section 218.411(fdf)(2) of this Subpart; and
- **<u>DFD</u>**) A description of the practices that <u>ensureassureensure</u> that VOMcontaining cleaning materials are kept in closed containers;
- On and after March 15, 1996, <u>Collect</u>collect<u>Collect</u> 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 which that is prepared at the source with automatic equipment:
  - i) The name and identification of each cleaning solution;
  - The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 218.409(c) of this Subpart;
  - 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 which 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 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.<sup>‡</sup> For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in 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:
  - 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 accordance with Section 218.409(e) of this Subpart., For cleaning solutions that are used as purchased, the manufacturer<sup>2</sup>'s specifications for VOM composite partial vapor pressure may be used if such manufacturer<sup>2</sup>'s specifications are based on results of tests conducted in accordance 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 accordance with Section 218.409(e) of this Subpart. For cleaning solutions that are used as purchased, the manufacturer<sup>21</sup>/<sub>2</sub>'s specifications for VOM composite partial vapor pressure may be used if such manufacturer<sup>22</sup>/<sub>2</sub>'s specifications are based on results of tests conducted in accordance 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;
- 3) On and after March 15, 1996, <u>NotifynotifyNotify</u> the Agency in writing of any violation of Section 218.407 of this Subpart within 30 days after the

occurrence of such violation. Such notification shall include a copy of all records of such violation.; and

- 4) If changing its method of demonstrating compliance with the requirements of Section 218.407(a)(4) of this Subpart, or changing between automatic and manual methods of preparing cleaning solutions, certify compliance for such new method in accordance with subsection (d)(1) of this Section, within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of Section 218.407(a)(4) of this Subpart.
- g) The owner or operator of lithographic printing <u>line(s)</u>lines subject to one or more of the exclusions set forth in Section 218.405(c)(3) shall:
  - By May 1, 2010, or upon initial start-up of a new lithographic printing line that is subject to one or more of the exclusions set forth in Section 218.405(c)(3), whichever is later, submit a certification to the Agency that includes either:
    - A) A declaration that the source is subject to one or more of the exclusions set forth in Section 218.405(c)(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(c)(3);
  - 2)
  - 2) Unless the source has certified in accordance with subsection (g)(1)(B) of this Section that it will not make use of any of the exclusions set forth in Section 218.405(c)(3):
    - A) Collect and record the following information for all lithographic printing lines at the source:
      - i) Calculations which 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, determined in accordance with the calculations in Section 218.411(b)(2)(B) of this Subpart;
      - ii) The amount of cleaning materials used on lithographic printing lines at the source that does 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 the use of capture systems and control devices, within 30 days after the event occurs:
- 3) If changing from utilization of the exclusions set forth in Section 218.405(c)(3) to opting out of such exclusions pursuant to subsection (g)(1)(B) of this Section, or if there is a change at the source such that the exclusions no longer apply, certify compliance in accordance with subsection (g)(1)(B) of this Section within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing <u>line(s)lines</u> will be in compliance with the applicable requirements of Section 218.407 of this Subpart.
- If changing from opting out of the exclusions set forth in Section 218.405(c)(3) pursuant to subsection (g)(1)(B) of this Section to utilization of such exclusions, certify compliance in accordance with subsection (g)(1)(A) of this Section within 30 days after making such change.
- <u>heh</u>) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.
- i) Provisions 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):
  - A factor of 0.80 may 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 <u>line(s)lines;</u>
  - 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. The VOM emitted from the fountain solution shall be calculated using the

#### following equation:

$Vom_{fs} = 0.30 \times Vom_{tot} + 1$	Total VOM in the fountain solution;	
where: VOM <sub>tot</sub>		
VOMís	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, $DE = 0$ ;	

 $\underline{\text{VOM}_{\text{fs}} = 0.30 \times \text{VOM}_{\text{tot}} + (0.70 \times \text{VOM}_{\text{tot}}) \times (1-\text{DE})}$ 

Where:

<u>VOM<sub>tot</sub> = Total VOM in the fountain solution;</u>

<u>VOM<sub>fr</sub> = VOM emitted from the fountain solution;</u>

<u>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;</u>

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 <u>line(s)lines</u> at the source, an emission adjustment factor of 0.50 may be used 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°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°F), an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate. The VOM emitted from the automatic blanket wash solution shall be calculated using the following equation.

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

Where:

<u>VOM<sub>tot</sub> = Total VOM in the blanket wash;</u>

<u>VOM<sub>bw</sub> = VOM emitted from the blanket wash:</u>

 $\frac{DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE =$  $<math display="block">\frac{0}{DE} Vom_{bw} = 0.60 \times Vom_{tot} + (0.40 \times Vom_{tot}) \times (1 - DE)$ 

## where:

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;

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 34 Ill. Reg.\_\_\_\_\_, effective\_\_\_\_\_)

#### Section 218.412 Letterpress Printing Lines: Applicability

- a) Except as provided in subsection (b) of this Section, on and after May 1, 2010, the limitations in Sections 218.413 through 218.416 of this Subpart shall apply to:
  - All heatset web letterpress printing <u>line(s)lines</u> at a source if all heatset web letterpress printing <u>line(s)lines</u> (including solvents used for cleanup operations associated with heatset web letterpress printing <u>line(s)lines</u>) at the source have a total potential to emit 22.7 Mg (25 tons) or more of VOM per year; and
  - 2) All letterpress printing <u>line(s)lines</u> at a source where the combined emissions of VOM from all letterpress printing <u>line(s)lines</u> at the source (including solvents used for cleanup operations associated with the letterpress printing <u>line(s)lines</u>) ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, calculated in accordance with Section 218.417(b)(1)(B).
- b) Notwithstanding subsection (a) of this Section, the requirements of Section 218.413(a)(2) of this Subpart shall not apply to up to 416.3 liters (110 gallons) per year of cleaning materials used on letterpress printing lines at a subject sources.
- c) On and after May 1, 2010, the recordkeeping and reporting requirements in Section 218.417 of this Subpart shall apply to all owners or operators of letterpress printing <u>line(s)lines</u>.
- d) If a letterpress printing line at a source is or becomes subject to one or more of the limitations in Section 218.413 of this Subpart, the letterpress printing line(s)lines at the source are always subject to the applicable provisions of this Subpart.

(Source: Added at 34 Ill. Reg.\_\_\_\_\_, effective\_\_\_\_\_)\_

## Section 218.413 Emission Limitations and Control Requirements for Letterpress Printing Lines

- a) No owner or operator of letterpress printing <u>line(s)lines</u> subject to the requirements of this Subpart 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, 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 <u>exhaust(s)exhausts</u> are reduced as follows:
      - i) By 90 percent, by weight, for afterburners first constructed at the source prior to January 1, 2010;
      - ii) By 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
    - D) The afterburner is operated at all times when the printing line is in operation, except the afterburner may be shut down between November 1 and April 1 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 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  $20^{\circ}C$  ( $68^{\circ}F^{\circ}F$ );

- 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:
  - The control device reduces VOM emissions from the press dryer exhaust(s)exhausts as follows:
    - A) By 90 percent, by weight, for control devices first constructed at the source prior to January 1, 2010;
    - B) By 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);
  - 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 accordance with this plan is approved by the Agency and USEPA as federally enforceable permit conditions.

(Source: Added at 34 Ill. Reg.\_\_\_\_\_, effective\_\_\_\_\_\_)

### Section 218.415 Testing for Letterpress Printing Lines\_

- a) Testing to demonstrate compliance with the requirements of Section 218.413 of this Subpart shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart. Such testing shall be conducted at the expense of the owner or operator, and the owner or operator shall notify the Agency in writing 30 days in advance of conducting such testing to allow the Agency to be present during such testing.
- b) The methods and procedures of Section 218.105(d) and (f) 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, incorporated by reference in Section 218.112 of this Part.

The sampling sites for determining efficiency in reducing VOM from the dryer exhaust 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, 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, 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
  - 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 shall be conducted using either 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, are test is required. 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, 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) Notwithstanding 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);
- 5) During testing, the printing <u>line(s)lines</u> 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, shall be used to demonstrate 100 percent emissions capture efficiency for the dryer in accordance with Section 218.413(a)(1)(A) of this Subpart.
- 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 (pursuant to the requirements of Section 218.417(b)(1)(B) of this Subpart), shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:
  - The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, shall be used to demonstrate compliance; or
  - 2) The manufacturer's specifications for VOM content for cleaning solvents and inks may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part; provided, however, Method\_24 shall be used to determine compliance.
- d) Testing to demonstrate compliance with the requirements of Section 218.413(b) of this Subpart shall be conducted as set forth in the owner or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions 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 shall be conducted in accordance with the applicable methods and procedures specified in Section 218.110 of this Part.

(Source: Added at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

#### Section 218.416 Monitoring Requirements for Letterpress Printing Lines

- Afterburners For Heatset Web Letterpress Printing Line(s) 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) of this Subpart shall:
  - Install, calibrate, maintain, and operate temperature monitoring device(s)devices with an accuracy of 3° C or 5° F on the afterburner in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the afterburner is operating; and

- Install, calibrate, operate, and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring <u>device(s)devices</u>, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor.
- b) Other <u>Control Devices for Heatset Web Letterpress Printing Line(s)control</u> <u>devices for heatset web letterpress printing lines</u>. 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 shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner or operator's plan approved by the Agency and USEPA pursuant to Section 218.413(b) of this Subpart.
- c) Cleaning <u>Solution.</u>solution.
  - 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 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 usage of cleaning solvent and water (or other non-VOM) 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) of this Subpart must keep records for such cleaning solutions used on any such <u>line(s)lines</u> as set forth in Section 218.417(e)(2)(C) of this Subpart.

(Source: Added at 34 Ill. Reg.\_\_\_\_\_, effective\_\_\_\_\_)

### Section 218.417 Recordkeeping and Reporting for Letterpress Printing Lines

- a) By May 1, 2010, or upon initial start-up of a new heatset web letterpress printing line, whichever is later, and upon 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) shall submit a certification to the Agency that includes:
  - 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 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) shall:
  - By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon 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 which 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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows:
      - To calculate daily emissions of VOM, the owner or operator 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 in operation;

- To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;
- iii) To determine VOM emissions from inks used on letterpress printing line(s)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 line(s)lines; and
- iv) To determine VOM emissions from cleaning solutions used on letterpress printing <u>line(s)lines</u> at the source, an emission adjustment factor of 0.50 shall be used 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° C (68°F° 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 all such tests have been properly conducted in accordance with Section 218.415(c)(1) of this Subpart;
- As an alternative to the calculations in subsection (b)(1)(B), above, D) a statement that the source uses less than the amount of material specified in subsections (b)(1)(D)(i) or (b)(1)(D)(ii), below, as applicable, during each calendar month. A source may determine that it emits below 6.8 kg/day (15 lbs/day) of VOM based upon compliance with 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 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). If a source has both heatset web and either nonheatset web or sheetfed letterpress printing operations, or has all three types of printing

operations, the owner or operator may not make use of thisalternative and must use 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 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), 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:
  - 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 did not emit 6.8 kg/day (15 lbs/day) or more of VOM;
  - iiB) 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 subsection (b)(1)(D) and (b)(3) of this Section, on and after May 1, 2010, an owner or operator of a letterpress printing line subject to the requirements in subsections (a) or (b) of this Section shall collect and record either the information specified in 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 <u>whichthat</u> shows whether a letterpress printing line at the source was 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 accordance with Section 218.417(b)(1)(B) of this Subpart;
- 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 <u>which</u>that shows whether a letterpress 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 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 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 accordance with Section 218.417(b)(1)(B) of this Subpart;
- d) An owner or operator of a heatset web letterpress printing <u>line(s)lines</u> subject to the control requirements of Section 218.413(a)(1)(B) or (b)(1) of this Subpart shall comply with the following:

1) By May 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 such 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 pursuant to Section 218.415(b) of this Subpart, the owner or operator shall, within 90 days after conducting such 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 <u>line(s)lines</u> 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 <a href="https://lines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.jines.

- C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.416(a) or (b) of this Subpart, as applicable;
- 3) Except 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:

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- A) Afterburner or other approved control device monitoring data in 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;
- 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. Such notification shall include a copy of all records of 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 in accordance with Section 218.413(b) at least 30 days before making such change, and perform all tests and calculations necessary to demonstrate that such printing <u>line(s)lines</u> 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 of this Subpart shall:
  - 1) By May 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 pursuant 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. Such certification shall include:

A) A statement that the cleaning solution will comply with the limitations in Section 218.413(a)(2);

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- B) Identification of the <u>method(s)methods</u> that will be used to demonstrate continuing compliance with the applicable limitations;
- C) A sample of the records that will be kept pursuant to Section 218.417(e)(2) of this Subpart; 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 which that is prepared at the source with automatic equipment:
    - i) The name and identification of each cleaning solution;
    - The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 218.415(c) of this Subpart;
    - 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;

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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 which 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 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<sup>21</sup>/<sub>2</sub>'s specifications for VOM content may be used if such manufacturer<sup>21</sup>/<sub>2</sub>'s specifications are based on results of tests of the VOM content conducted in 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 218.413(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 accordance 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 accordance 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 accordance with Section 218.415(e) of this Subpart. For cleaning solutions that are used as purchased, the manufacturer<sup>2</sup>'s specifications for VOM composite partial vapor pressure may be used if such manufacturer<sup>2</sup>'s specifications are based on results of tests conducted in accordance 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. Such notification shall include a copy of all records of such violation.
- f) The owner or operator shall maintain all records required by this Section at the source for a minimum period of three years and shall make all records available to the Agency upon request.

(Source: Added at 34 Ill. Reg. \_\_\_\_, effective\_\_\_\_\_)

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343		MANUFACTURING PROCESSES
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353			
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356	218.983		onditions (Repealed)
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375			Cross-Line Averaging
376			
377		~	enting Section 10 and authorized by Sections 27 and 28 of the
378	Environmenta	l Protectio	on Act [415 ILCS 5/10, 27, and 28].
379			
380		*	R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-
381			effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill.
382			ugust 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective
383		•	ended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994;
384			8 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at
385	U		tive October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950,
386		•	1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848,
387	effective May	9, 1995; a	mended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995;

388	amended in I	R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21	
389	Ill. Reg. 770	8, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective	
390	February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in		
391	R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684,		
392		y 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007;	
393		R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-8 at 34 Ill.	
394		, effective	
395			
396		SUBPART A: GENERAL PROVISIONS	
397			
398	Section 218	106 Compliance Dates	
399	Section 210.	100 Compliance Dates	
400	a)	Except as otherwise provided in this Section or as otherwise provided in a specific	
401	<i>u)</i>	Subpart of this Part, compliance with the requirements of all rules is required by	
402		July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage,	
403		Kane, Lake, McHenry, or Will Counties, consistent with the appropriate	
404		provisions of Section 218.103 of this Subpart.	
404			
405	b)	Except as otherwise provided in this Section or as otherwise provided in a specific	
407	0)	Subpart of this Part, compliance with the requirements of this Part is required by	
407		November 15, 1993, for all sources located in Aux Sable Township or Goose	
408		Lake Township in Grundy County, or in Oswego Township in Kendall County.	
409		Lake rownship in Grundy County, of in Oswego rownship in Kendan County.	
411		All emission units which meet the applicability requirements of Sections	
412	c)	218.402(a)(2), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b),	
412		218.940(b), $218.960(b)$ or $218.980(b)$ of this Part, including emission units at	
413		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	
415		218.402(a) of this Part by virtue of permit conditions or other enforceable means,	
416		must comply with the requirements of Subparts H, Z, AA, CC, DD, PP, QQ, RR	
417		or TT of this Part, respectively, by March 15, 1995. Any owner or operator of an	
418			
419		emission unit which has already met the applicability requirements of Sections	
420		218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a)	
421		218.980(a) of this Part on or by the effective date of this subsection is required to	
422		comply with all compliance dates or schedules found in Sections 218.106(a) or	
423		218.106(b), as applicable.	
424	1\		
425	d)	Any owner or operator of a source with an emission unit subject to the	
426		requirements of Section 218.204(m)(2) or (m)(3) of this Part shall comply with	
427		those requirements by March 25, 1995.	
428	ς.		
429	<u>e)</u>	Any owner or operator of a source subject to the requirements of Section	
430		218.204(p) of this Part shall comply with the requirements in Section 218.204(p),	

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431					ble requirements in Sections 218.205 through 218.211,
432		<u>218.2</u>	214, and 2	<u>218.21</u>	<u>7 by May 1, 2010.</u>
433 434	(Sour	ce: An	nended at	t 34 III.	. Reg, effective)
435 436			S	SUBPA	ART E: SOLVENT CLEANING
437 438	Section 218.	181 So	lvent Cl	eaning	g Degreasing Operationsin General
439					
440 441 442 443		eaning,	open top	vapor	82, 218.183, 218.184, and 218.186 of this Subpart shall apply degreasing, and conveyorized degreasing operations which
443 444 445	(Sour	ce: An	nended at	: 34 Ill.	. Reg, effective)
446	Section 218	187 01	her Indi	nstrial	Solvent Cleaning Operations
447	<u>Section 210.</u>	107 01	mer mu	<u>1511 141</u>	Solvent Cleaning Operations
448	<u>a)</u>	Appl	icability.	On ar	nd after April 1, 2011:
449	<u>u</u> )	1122	<u>louomitj</u> .		
450		<u>1)</u>	Except	t as pro	by ovided in subsection $(a)(2)$ of this Section, the requirements of
451		<u> </u>			hall apply to all cleaning operations that use organic
452					rces that emit a total of 6.8 kg/day (15 lbs/day) or more of
453					leaning operations at the source, in the absence of air
454					trol equipment. For purposes of this Section, "cleaning
455			<b>A</b> .		eans the process of cleaning products, product components,
456					nent, or general work areas during production, repair,
457				~ ~	or servicing, including but not limited to spray gun cleaning,
458					leaning, large and small manufactured components cleaning,
459					g, equipment cleaning, line cleaning, floor cleaning, and tank
460			*		ources with emission units;
461					
462		<u>2)</u>	Notwit	thstand	ling subsection (a)(1) of this Section:
463					
464			<u>A)</u>	The f	ollowing cleaning operations shall be exempt from the
465					rements of subsections (b), (c), (d), (f), and (g) of this
466				Sectio	
467					
468				<u>i)</u>	Cleaning operations subject to the limitations in Sections
469				-	218.182, 218.183, or 218.184;
470					
471				<u>ii)</u>	Janitorial cleaning;
472					-

473 474		<u>iii)</u>	Stripping of cured coatings, inks, or adhesives, including screen reclamation activities;
475			screen recramation activities,
476		<u>iv)</u>	<u>Cleaning operations in printing pre-press areas, including</u>
477			the cleaning of film processors, color scanners, plate
478			processors, film cleaning, and plate cleaning;
479			
480	<u>B)</u>	Clean	ing operations for emission units within the following source
481		catego	ories shall be exempt from the requirements of subsections
482		<u>(b), (c</u>	c), (d), (f), and (g) of this Section:
483			
484		<u>i)</u>	Aerospace coating;
485			
486		<u>ii)</u>	Flexible package printing;
487		••••	
488		<u>iii)</u>	Lithographic printing;
489		• 、	<b>T</b> (1)
490		<u>iv)</u>	Letterpress printing;
491 492		)	Elet wood non aling agoting.
492 493		<u>v)</u>	Flat wood paneling coating;
493		<u>vi)</u>	Large appliance coating;
495		<u>v1)</u>	Large appnance coating,
496		vii)	Metal furniture coating;
497		<u>v11</u>	Mour furniture country,
498		viii)	Paper, film, and foil coating;
499		X	<u></u>
500		<u>ix)</u>	Wood furniture coating;
501			
502		<u>x)</u>	Shipbuilding and repair coating;
503			
504		<u>xi)</u>	Plastic parts coating;
505			
506		<u>xii)</u>	Miscellaneous metal parts coating;
507			
508		<u>xiii)</u>	Fiberglass boat manufacturing;
509		• 、	
510		<u>xiv)</u>	Miscellaneous industrial adhesives; and
511			Auto and light duty truck according to acting
512		<u>xv)</u>	Auto and light-duty truck assembly coating;
513 514	()	Thaf	ollowing cleaning operations shall be exempt from the
515	<u>C)</u>		ements of subsections (b), (c), (f), and (g) of this Section:
		requi	$\frac{1}{2}$

516		
517	<u>i)</u>	<u>Cleaning of solar cells, laser hardware, scientific</u>
518		instruments, and high-precision optics;
519		
520	<u>ii)</u>	<u>Cleaning conducted as part of performance laboratory tests</u>
521		on coatings, adhesives, or inks; research and development
522		operations; or laboratory tests in quality assurance
523		laboratories;
524		
525	<u>iii)</u>	Cleaning of paper-based gaskets and clutch assemblies
526		where rubber is bonded to metal by means of an adhesive;
527		
528	<u>iv)</u>	Cleaning of cotton swabs to remove cottonseed oil before
529		cleaning of high-precision optics;
530		
531	<u>v)</u>	Cleaning of medical device and pharmaceutical
532		manufacturing facilities using no more than 1.5 gallons per
533		day of solvents;
534		
535	<u>vi)</u>	<u>Cleaning of adhesive application equipment used for thin</u>
536		metal laminating;
537		
538	<u>vii)</u>	Cleaning of electronic or electrical cables;
539		
540	<u>viii)</u>	Touch-up cleaning performed on printed circuit boards
541		where surface mounted devices have already been attached;
542		
543	<u>ix)</u>	Cleaning of coating and adhesive application processes
544		utilized to manufacture transdermal drug delivery products
545		using no more than three gallons per day of ethyl acetate;
546		
547	<u>x)</u>	Cleaning of application equipment used to apply coatings
548		on satellites and radiation effect coatings;
549		
550	<u>xi)</u>	Cleaning of application equipment used to apply solvent-
551		borne fluoropolymer coatings;
552		
553	<u>xii)</u>	Cleaning of ultraviolet or electron beam adhesive
554		application;
555		
556	<u>xiii)</u>	Cleaning of sterilization indicating ink application
557		equipment if the facility uses no more than 1.5 gallons per
558		day of solvents for such cleaning;

\*

559 560 561 562				<u>xiv)</u>	<u>Cleaning of metering rollers, dampenin</u> printing plates;	g rollers, and
563				<u>xv)</u>	Cleaning of numismatic dies; and	
564 565				<u>xvi)</u>	Cleaning operations associated with dis	gital printing.
566 567 568 569 570	<u>b)</u>	this Sec owner	ction s or opei	hall per rator me	Requirements. No owner or operator of form any cleaning operation subject to the sets the requirements in subsection (b)(1)	his Section unless the (b)(2), or (b)(3):
571 572		<u>1)</u>			ntent of the as-used cleaning solutions (nat are specifically exempted from the de	
573					ed the following emissions limitations:	
574 575 576 577 578			<u>A)</u>	proces	ct cleaning during manufacturing as or surface preparation for coating, ve, or ink application:	
				<u>i)</u>	Electrical apparatus components and electronic components	<u>kg/l lb/gal</u> 0.10 0.83
<b>57</b> 0				<u>ii)</u>	Medical device and pharmaceutical manufacturing	0.80 6.7
579 580			<u>B)</u>	<u>Repair</u>	and maintenance cleaning:	
581				<u>i)</u>	Electrical apparatus components and electronic components	<u>kg/l lb/gal</u> 0.10 0.83
				<u>ii)</u>	Medical device and pharmaceutical manufacturing	0.80 6.7
<b>600</b>				<u>iii)</u>	Medical device and pharmaceutical manufacturing general work surfaces	0.60 5.0
582 583			<u>C)</u>	<u>Cleani</u>	ng of ink application equipment:	
584						<u>kg/l lb/gal</u>

x

				<u>i)</u>	Rotogravure printing that does not print flexible packaging	0.10 0.83
				<u>ii)</u>	Screen printing	0.50 4.2
				<u>iii)</u>	Ultraviolet ink and electron beam ink application equipment, except screen printing	0.65 5.4
				<u>iv)</u>	Flexographic printing that does not print flexible packaging	0.10 0.83
585						
586						<u>kg/1 lb/gal</u>
587			<u>D)</u>		cleaning operations not	0.050 0.42
588					a specific limitation in	
589					ons (b)(1)(A) through	
590 591				<u>(D)(1)(C</u>	) of this Section	
591 592		<u>2)</u>	The co	mnosites	vapor pressure of each as-used cleaning	r solution used does
593		<u> </u>			amHg measured at 20° C (68° F); or	2 solution used does
594			<u>not ex</u>			
595		<u>3)</u>	An aft	erburner c	or carbon adsorber is installed and oper	ated that reduces
596		<u> </u>			from the subject cleaning operation by	
597					ner or operator may use an emissions	· · · · · · · · · · · · · · · · · · ·
598			than a	n afterburi	ner or carbon adsorber if such device re	educes VOM
599			<u>emissi</u>	ons from	the subject cleaning operation by at lea	ast 85 percent
600			<u>overal</u>	<u>l, the own</u>	er or operator submits a plan to the Ag	ency detailing
601					itoring devices, test methods, recordke	
602					rameters for such control device, and s	
603					Agency and USEPA within federally	entorceable permit
604 60 <b>5</b>			<u>condit</u>	<u>10ns.</u>		
605 606	c)	Theory	wher or	onerator	of a subject source shall demonstrate co	maliona with this
608 607	<u>c)</u>				blicable test methods and procedures s	
608					ection and by complying with the recor	
609					specified in subsection (e) of this Secti	· · ·
610		<u>100011</u>	<u>1115 104</u> 4		spectrica in subsection (c) of this been	011.
611	<u>d)</u>	Opera	ting Red	uirements	s. The owner or operator of a source s	ubiect to the
612	<u></u>		-	-	tion shall comply with the following f	•
613			ng opera			
614			<u></u>			
615		<u>1)</u>	Cover	open cont	ainers and properly cover and store ap	<u>plicators</u>
616			used to	o apply cle	eaning solvents;	

617					
618		<u>2)</u>	Minim	<u>nize air c</u>	irculation around the cleaning operation;
619					
620		<u>3)</u>	Dispos	se of all	used cleaning solutions, cleaning towels, and applicators
621			used to	o apply c	cleaning solvents in closed containers;
622					
623		<u>4)</u>	Utilize	e equipm	nent practices that minimize emissions.
624					
625	<u>e)</u>	Record	lkeepin	g and Re	eporting Requirements.
626					
627		<u>1)</u>			operator of a source exempt from the limitations of this
628					se of the criteria in Section 218.187(a)(1) of this Subpart
629			<u>shall c</u>	omply w	vith the following:
630					
631			<u>A)</u>		ril 1, 2011, or upon initial start-up of the source, whichever
632				<u>is later.</u>	, submit a certification to the Agency that includes:
633					
634				<u>i)</u>	A declaration that the source is exempt from the
635					requirements of this Section because of the criteria in
636					Section 218.187(a)(1);
637					
638				<u>ii)</u>	Calculations that demonstrate that combined emissions of
639					VOM from cleaning operations at the source never equal or
640					exceed 6.8 kg/day (15 lbs/day), in the absence of air
641					pollution control equipment;
642					
643			<u>B)</u>	<u>Notify</u>	the Agency of any record that shows that the combined
644				emissic	ons of VOM from cleaning operations at the source ever
645				equal o	r exceed 6.8 kg/day (15 lbs/day), in the absence of air
646				pollutio	on control equipment, within 30 days after the event occurs.
647					
648		<u>2)</u>	All sou	urces sul	bject to the requirements of this Section shall:
649					
650			<u>A)</u>	By Apr	ril 1, 2011, or upon initial start-up of the source, whichever
651				is later.	, submit a certification to the Agency that includes:
652					
653				<u>i)</u>	A declaration that all subject cleaning operations are in
654					compliance with the requirements of this Section;
655					_
656				<u>ii)</u>	Identification of each subject cleaning operation and each
657					VOM-containing cleaning solution used as of the date of
658					certification in such operation;
659					

660 661 662 663			<u>iii)</u>	If complying with the emissions control system requirement, what type of emissions control system will be used;
664 665 666 667			<u>iv)</u>	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;
668 669 670 671 672			<u>v)</u>	Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
673 674 675 676			<u>vi)</u>	A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 218.187(d); and
677 678 679 680			<u>vii)</u>	A description of each cleaning operation exempt pursuant to Section 218.187(a)(2), if any, and a listing of the emission units on which the exempt cleaning operation is performed;
681 682 683 684 685 686		<u>B)</u>	compli (b)(3) The no	at 30 calendar days before changing the method of ance between subsections (b)(1) or (b)(2) and subsection of this Section, notify the Agency in writing of such change. otification shall include a demonstration of compliance with wly applicable subsection;
687 688 689 690 691	<u>3)</u>	subsec	tion (b)	mplying with this Section pursuant to the requirements of (1) of this Section shall collect and record the following or each cleaning solution used:
692 693 694		<u>A)</u>	automa	ch cleaning solution that is prepared at the source with atic equipment:
695 696 697 698 699			<u>i)</u> ii)	The name and identification of each cleaning solution; The VOM content of each cleaning solvent in the cleaning solution;
700 701 702			<u>iii)</u>	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

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703 704 705				changes to the proportion of cleaning solvent and water (or other non-VOM);
705 706 707 708			<u>iv)</u>	The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
708 709 710			<u>v)</u>	The VOM content of the as-used cleaning solution, with supporting calculations; and
711 712 713			<u>vi)</u>	<u>A calibration log for the automatic equipment, detailing periodic checks;</u>
714 715 716		<u>B)</u>	-	ach batch of cleaning solution that is not prepared at the e with automatic equipment:
717 718 719			<u>i)</u>	The name and identification of each cleaning solution;
720 721			<u>ii)</u>	Date, time of preparation, and each subsequent modification of the batch;
722 723 724			<u>iii)</u>	The VOM content of each cleaning solvent in the cleaning solution;
725 726 727			<u>iv)</u>	The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning
728 729				solution; and
730 731 732			<u>v)</u>	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
733 734				manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on
735 736 737				results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part;
738 739 740	<u>4)</u>			omplying with this Section pursuant to the requirements of )(2) of this Section shall collect and record the following
741 742				or each cleaning solution used:
743 744		<u>A)</u>	<u>The n</u>	ame and identification of each cleaning solution;

745 746		<u>B)</u>	Date, tin batch;	me of preparation, and each subsequent modification of the
747			<u>Daton</u> ,	
748		<u>C)</u>	The mo	lecular weight, density, and VOM composite partial vapor
749		$\Box I$		e of each cleaning solvent, as determined in accordance
750			-	applicable methods and procedures specified in Section
751				of this Part;
752			<u>210.110</u>	of this fait,
753		D)	The tota	al amount of each cleaning solvent used to prepare the as-
754		<u>D)</u>		eaning solution; and
755			<u>useu cie</u>	annig solution, and
		E)	The VC	Macmonatic partial yapar programs of each as used
756		<u>E)</u>		M composite partial vapor pressure of each as-used
757				g solution, as determined in accordance with the applicable
758 759			memou	s and procedures specified in Section 218.110 of this Part;
760	<u>5)</u>	A 11 SOT	irces con	nplying with this Section pursuant to the requirements of
761	<u></u>			3) of this Section shall comply with the following:
762		300500		by or this beetion shall comply with the ronowing.
763		<u>A)</u>	By Anri	11, 2011, or upon initial start-up of the source, whichever
764		<u>1 1 j</u>		and upon initial start-up of a new emissions control
765				include in the certification required by subsection $(e)(3)$ of
766				tion a declaration that the monitoring equipment required
767				ection 218.187(f) of this Subpart has been properly
768				and calibrated according to manufacturer's specifications;
769			<u>1115tano</u>	and canorated according to manufacturer's specifications,
770		<u>B)</u>	If testin	g of an emissions control system is conducted pursuant to
771		DJ		218.187(g) of this Subpart, the owner or operator shall,
772				00 days after conducting such testing, submit a copy of all
773				Its to the Agency and shall submit a certification to the
774				that includes the following:
775			Ageney	that metades the following.
776			<u>i)</u>	A declaration that all tests and calculations necessary to
				demonstrate compliance with Section 218.187(b)(3) of this
777 778			-	Subpart have been properly performed;
			2	Subpart nave been property performed,
779 780			::)	A statement whether the subject cleaning operation is or is
				not in compliance with Section 218.187(b)(3) of this
781				Subpart; and
782			<u> </u>	Subpart, and
783			;;;)	The energy ing perspectare of the emissions control system
784				The operating parameters of the emissions control system
785			-	during testing, as monitored in accordance with Section
786			4	218.187(f) of this Subpart;
787				

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789       cleaning operation subject to the requirements of Section         790       218.187(b)(3) of this Subpart;         791       i)       Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;         793       with Section 218.187(f) of this Subpart, as applicable;         794       ii)       A log of operating time for the emissions control system, monitoring equipment, and associated cleaning equipment;         796       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;         800       monitoring equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         803       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         807       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;         813       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 as a result of the incident;         814       ii)       Records for repair of any violation of subsection	788			<u>C)</u>		t and record daily the following information for each
791       i)       Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;         793       with Section 218.187(f) of this Subpart, as applicable;         794       ii)       A log of operating time for the emissions control system, monitoring equipment, and associated cleaning equipment;         795       ii)       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;         803       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment and emissions control system equipment and emissions control system equipment and emissions control system for inspection, individual performing the inspection, and nature of inspection;         813       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 as a result of the incident;         817       6)       All sources subject to the requirements 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 following the occurrence of the violation;         823       violation;	789				<u>cleanin</u>	ng operation subject to the requirements of Section
<ul> <li>i) Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;</li> <li>ii) A log of operating time for the emissions control system, monitoring equipment, and associated cleaning equipment;</li> <li>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;</li> <li>D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:</li> <li>ii) Records for periodic inspection of the cleaning equipment and emissions control system equipment with date of inspection;</li> <li>iii) 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 as a result of the incident;</li> <li>6) All sources subject to the requirements 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 following the occurrence of the violation;</li> </ul>	790				218.18	7(b)(3) of this Subpart:
793       with Section 218.187(f) of this Subpart, as applicable;         794       ii)       A log of operating time for the emissions control system, monitoring equipment, and associated cleaning equipment;         795       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;         800       monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages;         802       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         806       equipment. At a minimum, these records shall include:         807       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;         813       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 YOM released into the atmosphere as a result of the incident;         817       6)       All sources subject to the requirements 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 following the occurrence of the violation;         823       violation; <td>791</td> <td></td> <td></td> <td></td> <td></td> <td></td>	791					
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795       ii)       A log of operating time for the emissions control system, monitoring equipment, and associated cleaning equipment;         797       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;         803       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         806       equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment and emissions control system equipment, individual performing the inspection, and nature of inspection, individual performing the inspection, and nature of inspection;         813       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation to the Agency of any violation of subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation;	793					with Section 218.187(f) of this Subpart, as applicable;
796       monitoring equipment, and associated cleaning equipment;         797       iii)       A maintenance log for the emissions control system and         799       monitoring equipment detailing all routine and non-routine         800       maintenance performed, including dates and duration of         801       any outages;         802       D)       Maintain records documenting the use of good operating practices         804       consistent with the equipment manufacturer's specifications for the         805       coleaning equipment being used and the emissions control system         806       equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment         808       i)       Records for repair of malfunctions and breakdowns with         811       of inspection;       iii)         812       ii)       Records for repair of malfunctions and breakdowns with         814       identification and description of incident, date identified,         815       date repaired, nature of repair, and the amount of VOM         816       All sources subject to the requirements of subsection (b) or (d) by         819       Section shall notify the Agency of any violation of subsection (b) or (d) by         820       providing a description of the violation and cop	794					
797       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;         803       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         806       equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment and emissions control system equipment, individual performing the inspection, and nature of inspection, individual performing the inspection, and nature of inspection;         813       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 as a result of the incident;         818       6)       All sources subject to the requirements of subsections (b) and (d) 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 following the occurrence of the violation;         822       violation;	795				<u>ii)</u>	A log of operating time for the emissions control system,
798       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;         800       any outages;         801       any outages;         803       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 shall include:         806       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;         813       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) 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 following the occurrence of the violation;	796					monitoring equipment, and associated cleaning equipment;
799       monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages;         801       any outages;         802       D)       Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment. At a minimum, these records shall include:         806       equipment. At a minimum, these records shall include:         807       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;         813       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) 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;         821       the violation to the Agency within 30 days following the occurrence of the violation;	797					
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801       any outages;         802       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 shall include:         806       equipment. At a minimum, these records shall include:         807       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;         810       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) 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;         821       the violation to the Agency within 30 days following the occurrence of the violation;	799					monitoring equipment detailing all routine and non-routine
802       D)       Maintain records documenting the use of good operating practices         804       consistent with the equipment manufacturer's specifications for the         805       cleaning equipment being used and the emissions control system         806       equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment         808       i)       Records for periodic inspection of the cleaning equipment         809       and emissions control system equipment with date of         810       inspection, individual performing the inspection, and nature         811       of inspection;         812       ii)       Records for repair of malfunctions and breakdowns with         814       identification and description of incident, date identified,         815       date repaired, nature of repair, and the amount of VOM         816       released into the atmosphere as a result of the incident;         817       section shall notify the Agency of any violation of subsection (b) or (d) by         820       providing a description of the violation and copies of records documenting         821       the violation to the Agency within 30 days following the occurrence of the         822       violation;	800					maintenance performed, including dates and duration of
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806       equipment. At a minimum, these records shall include:         807       i)       Records for periodic inspection of the cleaning equipment         809       and emissions control system equipment with date of         810       inspection, individual performing the inspection, and nature         811       of inspection;         812       ii)       Records for repair of malfunctions and breakdowns with         814       identification and description of incident, date identified,         815       date repaired, nature of repair, and the amount of VOM         816       released into the atmosphere as a result of the incident;         817       for the subject to the requirements of subsections (b) and (d) of this         819       Section shall notify the Agency of any violation of subsection (b) or (d) by         820       providing a description of the violation and copies of records documenting         821       the violation to the Agency within 30 days following the occurrence of the         822       violation;	804				consist	ent with the equipment manufacturer's specifications for the
806       equipment. At a minimum, these records shall include:         807       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;         813       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) 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 following the occurrence of the violation;	805					
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808i)Records for periodic inspection of the cleaning equipment809and emissions control system equipment with date of810inspection, individual performing the inspection, and nature811of inspection;812ii)Records for repair of malfunctions and breakdowns with814identification and description of incident, date identified,815date repaired, nature of repair, and the amount of VOM816released into the atmosphere as a result of the incident;8176)All sources subject to the requirements of subsections (b) and (d) of this819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the823violation;	807					
809       and emissions control system equipment with date of         810       inspection, individual performing the inspection, and nature         811       of inspection;         812       ii)       Records for repair of malfunctions and breakdowns with         814       identification and description of incident, date identified,         815       date repaired, nature of repair, and the amount of VOM         816       released into the atmosphere as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) of this         819       Section shall notify the Agency of any violation of subsection (b) or (d) by         820       providing a description of the violation and copies of records documenting         821       the violation to the Agency within 30 days following the occurrence of the         822       violation;					i)	Records for periodic inspection of the cleaning equipment
810       inspection, individual performing the inspection, and nature of inspection;         811       of inspection;         812       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 as a result of the incident;         817       6)       All sources subject to the requirements of subsections (b) and (d) 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 following the occurrence of the violation;         822       violation;						
812         813       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         816       date repaired, nature of repair, and the amount of VOM         816       released into the atmosphere as a result of the incident;         817       818         6)       All sources subject to the requirements of subsections (b) and (d) of this         819       Section shall notify the Agency of any violation of subsection (b) or (d) by         820       providing a description of the violation and copies of records documenting         821       the violation to the Agency within 30 days following the occurrence of the         822       violation;						
<ul> <li>813</li> <li>814</li> <li>814</li> <li>815</li> <li>816</li> <li>816</li> <li>817</li> <li>818</li> <li>6) All sources subject to the requirements of subsections (b) and (d) of this</li> <li>819</li> <li>820</li> <li>820</li> <li>820</li> <li>821</li> <li>821</li> <li>823</li> <li>823</li> </ul>	811					of inspection;
814identification and description of incident, date identified,815date repaired, nature of repair, and the amount of VOM816released into the atmosphere as a result of the incident;8176)All sources subject to the requirements of subsections (b) and (d) of this819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the823violation;	812					
815date repaired, nature of repair, and the amount of VOM816released into the atmosphere as a result of the incident;8176)All sources subject to the requirements of subsections (b) and (d) of this819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the823violation;	813				<u>ii)</u>	Records for repair of malfunctions and breakdowns with
816released into the atmosphere as a result of the incident;8176)All sources subject to the requirements of subsections (b) and (d) of this8186)Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the822violation;823823	814					identification and description of incident, date identified,
816released into the atmosphere as a result of the incident;8176)All sources subject to the requirements of subsections (b) and (d) of this8186)Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the822violation;823823	815					date repaired, nature of repair, and the amount of VOM
8186)All sources subject to the requirements of subsections (b) and (d) of this819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the822violation;823823	816					
819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the822violation;823823	817					
819Section shall notify the Agency of any violation of subsection (b) or (d) by820providing a description of the violation and copies of records documenting821the violation to the Agency within 30 days following the occurrence of the822violation;823823	818		<u>6)</u>	<u>All sou</u>	rces sul	bject to the requirements of subsections (b) and (d) of this
<ul> <li>821 the violation to the Agency within 30 days following the occurrence of the</li> <li>822 violation;</li> <li>823</li> </ul>	819			Section	ı shall n	otify the Agency of any violation of subsection (b) or (d) by
<ul> <li>821 the violation to the Agency within 30 days following the occurrence of the</li> <li>822 violation;</li> <li>823</li> </ul>	820					
822 violation; 823						
823				-		
			7)	All reco	ords req	uired by this subsection (e) shall be retained by the source
825 for at least three years and shall be made available to the Agency upon						
826 request.						
827					-	
828 <u>f) Monitoring Requirements.</u>		Ð	Monito	ring Re	auirem	ents.
829		<u> </u>				

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830 831 832 833		<u>1)</u>	If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.187(b)(3) of this Subpart shall:
834 835 836 837 838 838			A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3° C or 5° F on the emissions control system in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and
840 841 842 843 844 845 846			B) Install, calibrate, operate and maintain, in 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;
847 848 849 850 851 852		<u>2)</u>	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 218.187(b)(3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.187(b)(3).
853 854	<u>g)</u>	<u>Testir</u>	ng Requirements.
855 856 857 858 859 860 861 862 863		<u>1)</u>	Testing to demonstrate compliance with the requirements of this Section shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting the testing to allow the Agency to be present during the testing;
863 864 865 866 867 868 869 870 871 872		<u>2)</u>	<ul> <li>Testing to demonstrate compliance with the VOM content limitations in Section 218.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted as follows:</li> <li>A) The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, shall be used to demonstrate compliance; or</li> </ul>

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	873		<u>B)</u>		nanufacturer's specifications for VOM content for cleaning
	874				nts may be used if such manufacturer's specifications are
	875				on results of tests of the VOM content conducted in
	876				dance with methods specified in Section 218.105(a) of this
	877				provided, however, Method 24 shall be used to determine
	878			comp	liance;
	879				
/	880	<u>3)</u>	<u>Testin</u>	g to det	termine the VOM composite partial vapor pressure of
	881		cleani	ng solv	ents, cleaning solvent concentrates, and as-used cleaning
	882		<u>solutic</u>	ons shal	Il be conducted in accordance with the applicable methods
	883		and pr	ocedur	es specified in Section 218.110 of this Part;
	884				
	885	<u>4)</u>	For af	terburn	ers and carbon adsorbers, the methods and procedures of
	886				05(d) through (f) shall be used for testing to demonstrate
	887				with the requirements of Section 218.187(b)(3) of this
	888			rt, as fo	
	889		<u></u>		
	890		<u>A)</u>	To sel	lect the sampling sites, Method 1 or 1A, as appropriate, 40
	891		<u> </u>		50, Appendix A, incorporated by reference in Section
	892				12 of this Part;
	893			<u>210.1</u>	
	894		<u>B)</u>	To de	termine the volumetric flow rate of the exhaust stream,
	895		<u></u>		od 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A,
	896				porated by reference in Section 218.112 of this Part;
	897			moorp	blated by reference in Section 210.112 of this I art,
	898		<u>C)</u>	To de	termine the VOM concentration of the exhaust stream
	899		$\Box$		ng and exiting the emissions control system, Method 25 or
	900				as appropriate, 40 CFR 60, Appendix A, incorporated by
	901				nce in Section 218.112 of this Part. For thermal and catalytic
	902				urners, Method 25 must be used except under the following
	903				nstances, in which case Method 25A must be used:
	904			<u>encun</u>	instances, in which case inteniod 25A must be used.
	905			;)	The allowable outlet concentration of VOM from the
	906			<u>i)</u>	emissions control system is less than 50 ppmv, as carbon;
					emissions control system is less than 50 ppmv, as carbon;
	907			::)	The VOM concentration of the inlate of the emissions
	908			<u>ii)</u>	The VOM concentration at the inlet of the emissions
	909				control system and the required level of control result in
	910				exhaust concentrations of VOM of 50 ppmv, or less, as
	911				carbon; and
	912			••••	
	913			<u>iii)</u>	Due to the high efficiency of the emissions control system,
	914				the anticipated VOM concentration at the emissions control
	915				system exhaust is 50 ppmv or less, as carbon, regardless of

916	inlet concentration. If the source elects to use Method 25A
917	under this option, the exhaust VOM concentration must be
918	50 ppmv or less, as carbon, and the required destruction
919	efficiency must be met for the source to have demonstrated
920	compliance. If the Method 25A test results show that the
921	required destruction efficiency apparently has been met, but
922	the exhaust concentration is above 50 ppmv, as carbon, a
923	retest is required. The retest shall be conducted using
924	either Method 25 or Method 25A. If the retest is conducted
925	using Method 25A and the test results again show that the
926	required destruction efficiency apparently has been met, but
927	the exhaust concentration is above 50 ppmv, as carbon, the
928	source must retest using Method 25;
929	
930	D) During testing, the cleaning equipment shall be operated at
931	representative operating conditions and flow rates;
932	représentative operating conditions and mon rates,
933	5) An owner or operator using an emissions control system other than an
934	afterburner or carbon adsorber shall conduct testing to demonstrate
935	<u>compliance with the requirements of Section 218.187(b)(3) of this Subpart</u>
936	as set forth in the owner's or operator's plan approved by the Agency and
937	<u>USEPA as federally enforceable permit conditions pursuant to Section</u>
938	218.187(b)(3) of this Subpart.
939	
940	(Source: Added at 34 Ill. Reg, effective)
941	
942	SUBPART F: COATING OPERATIONS
943	
944	Section 218.204 Emission Limitations
945	
946	Except as provided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of
947	this Subpart, no owner or operator of a coating line shall apply at any time any coating in which
948	the VOM content exceeds the following emission limitations for the specified coating. Except as
949	provided in Section 218.204(1) and $218.204(p)$ , compliance with the emission limitations
950	marked with an asterisk in this Section is required on and after March 15, 1996, and compliance
951	with emission limitations not marked with an asterisk is required until March 15, 1996. The
952	following emission limitations are expressed in units of VOM per volume of coating (minus
953	water and any compounds which are specifically exempted from the definition of VOM) as
954	applied at each coating applicator, except where noted. Compounds which are specifically
955	exempted from the definition of VOM should be treated as water for the purpose of calculating
956	the "less water" part of the coating composition. Compliance with this Subpart must be
957	demonstrated through the applicable coating analysis test methods and procedures specified in
958	Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in
///	section 210.100(a) of ano 1 are and the record coping and reporting requirements specified in

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959 Section 218.211(c) of this Subpart except where noted. (Note: The equation presented in Section
960 218.206 of this Part shall be used to calculate emission limitations for determining compliance
961 by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.)
962 The emission limitations are as follows:
963

)	Auto	Automobile or Light-Duty Truck Coating kg/l			
	1)	Prime coat	0.14 0.14*	(1.2) (1.2)*	
	2)	Primer surface coat	1.81 1.81*	(15.1) (15.1)*	

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per 1 (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) 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.)

3) Topcoat

a)

kg/l	lb/gal
1.81	(15.1)
1.81*	(15.1)*

(Note: The topcoat limitation is in units of kg (lbs) of VOM per 1 (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) 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.)

kg/l	lb/gal
0.58	(4.8)
0.58*	(4.8)*
	0.58

Ŧ	b)	Can C	oating		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)	Exter	ior basecoat and overvarnish	0.34 0.25*	(2.8) (2.1)*
		3)	Interi	or body spray coat	0.23	(2.1)*
			A)	Two piece	0.51 0.44*	(4.2) (3.7)*
			B)	Three piece	0.51 0.51*	(4.2) (4.2)*
		4)	Exteri	ior end coat	0.51 0.51*	(4.2) (4.2)*
		5)	Side s	seam spray coat	0.66 0.66*	(5.5) (5.5)*
-		6)	End s	ealing compound coat	0.44 0.44*	(3.7) (3.7)*
)	c)	Paper	Coating	y 2	kg/l 0.35 0.28*	lb/gal (2.9) (2.3)*

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic, <del>or</del>-rotogravure, <u>lithographic</u>, or <u>letterpress</u> printing is performed if the paper coating line complies with the <u>applicable</u> emissions limitations in <u>Subpart HSection 218.401</u> of this Part. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part.)

d) Coil Coating kg/l lb/gal 0.31 (2.6)

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			0.20*	(1.7)*
e)	Fabri	c Coating	0.35 0.28*	(2.9) (2.3)*
f)	Viny	l Coating	0.45 0.28*	(3.8) (2.3)*
g)	Meta	l Furniture Coating		
	1)	Air dried	0.36 0.34*	(3.0) (2.8)*
	2)	Baked	0.36 0.28*	(3.0) (2.3)*
h)	Large	e Appliance Coating	0.20	(2.5)
	1)	Air dried	0.34 0.34*	(2.8) (2.8)*
	2)	Baked	0.34 0.28*	(2.8) (2.3)*

BOARD NOTE: The limitation shall not apply to the use of quick-drying lacquers for repair of scratches and nicks that occur during assembly, provided that the volume of coating does not exceed 0.95 1 (1 quart) in any one rolling eight-hour period.

i)	Magnet Wire Coating	kg/1	lb/gal
		0.20	(1.7)
		0.20*	(1.7)*

#### j) Miscellaneous Metal Parts and Products Coating

v

1)	Clear coating	0.52	(4.3)
		0.52*	(4.3)*

#### 2) Extreme performance coating

A)	Air dried	0.42 0.42*	(3.5) (3.5)*
B)	Baked	0.42	(3.5)

				0.40*	(3.3)*	
3)	Steel	pail and	d drum interior coating	0.52 0.52*	(4.3) (4.3)*	
4)	Allo	ther coa	tings			
	A)	Air D	ried	0.42 0.40*	(3.5) (3.3)*	
	B)	Baked	1	0.36 0.34*	(3.0) (2.8)*	
5)	Mariı	ne engir	ne coating			
	A)	Air D		0.42 0.42*	(3.5) (3.5)*	
	B)	Baked	1			
		i) I	Primer/Topcoat	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)	Metal	Metallic Coating				
	A)	Air D	ried	0.42 0.42*	(3.5) (3.5)*	
	B)	Baked	1	0.36 0.36	(3.0) (3.0)*	
7)	Defi	nitions				
	A)		purposes of subsection 218.20 owing terms are defined:	4(j)(5) of this \$	Section, the	
		i)	"Corrosion resistant baseco subsection 218.204(j)(5)(B			

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975 976 977 978 979 980 981 982 983 984 985 984 985 986 987 988 987 988 989 990 991 992		В)	<ul> <li>process to a metal surface pr purpose of enhancing corros</li> <li>ii) "Electrodeposition process" subsection 218.204(j)(5) of t coating process in which opp applied to the substrate and t attracted to the substrate due potential difference that is cr</li> <li>iii) "Marine engine coating" mea 218.204(j)(5) of this Section protective, decorative or fun- engine that is used to propel</li> <li>For purposes of subsection 218.204</li> </ul>	<ul> <li>218.204(j)(5) of this Section, any extreme performance protective, decorative or functional coating applied to an engine that is used to propel watercraft.</li> <li>ar purposes of subsection 218.204(j)(6) of this Section, "metallic ating" means a coating which contains more than ¼ lb/gal of</li> </ul>		
994 k)	Heavy	y Off-Hig	ghway Vehicle Products Coating	kg/l	lb/gal	
	1)	Extrem	ne performance prime coat	0.42 0.42*	(3.5) (3.5)*	
	2)	Extrem	e performance topcoat (air dried)	0.42 0.42*	(3.5) (3.5)*	
	3)	Final re	epair coat (air dried)	0.42 0.42*	(3.5) (3.5)*	
	4)		er coatings are subject to the emission aneous metal parts and products coated and pro			
995 l)	Wood	l Furnitur	re Coating			
	1)	Limitat	tions before March 15, 1998:	kg/l	lb/gal	
		A)	Clear topcoat	0.67	(5.6)	

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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)

(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 1 (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.)

2) On and after March 15, 1998, wood furniture sealers and topcoats must comply with one of the limitations specified in subsections (l)(2)(A) through (E), below:

			kg VOM/ kg solids	lb VOM/ lb solids
A)	Торсоа	ıt	0.8	(0.8)
B)		and topcoats with the ng 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	2.0	(2.0)

conversion varnish topcoat

e N

1001			conversion variable topcour				
1001 1002 1003 1004		C) Meet the provisions of Section 218.215 of this Subpart for use of an averaging approach;					
1004 1005 1006 1007 1008		D)	Achieve a reduction in emissions equivalent to the requirements of subsection $(1)(2)(A)$ or $(B)$ of this Section, as calculated using Section 218.216 of this Subpart; or				
1008 1009 1010 1011		E)	Use a combination of the methods specified in subsections (1)(2)(A) through (D) of this Section.				
1011 1012 1013	3)	Other wood furniture coating limitations on and after March 15, 1998:					
1010				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)		
1014		E)	Wash coat	0.73	(6.1)		
1014 1015 1016	4)	Other wood furniture coating requirements on and after March 15, 1998:					
1010 1017 1018 1019 1020 1021		A)	No source subject to the limitations this Section and utilizing one or mor booths shall use strippable spray boo than 0.8 kg VOM/kg solids (0.8 lb V	re wood furnitu oth coatings co	ure coating spray ontaining more		
1021 1022 1023 1024 1025		B)	Any source subject to the limitation this Section shall comply with the re of this Subpart.				
1023 1026 1027 1028 1029 1030 1031		C)	Any source subject to the limitations of subsection $(1)(2)(A)$ or $(B)$ of this Section and utilizing one or more continuous coaters shall, for each continuous coater, use an initial coating which complies with the limitations of subsection $(1)(2)(A)$ or $(B)$ of this Section. The viscosity of the coating in each reservoir shall always be greater than or equal to the viscosity of the initial coating in the				

1032 1033				reserv				
1033 1034 1035 1036 1037 1038				i)	he viscosity of	ne reservoir with a y of the initial eservoir each time		
1030 1039 1040 1041 1042				ii)	d the amount coating and d; and			
1042 1043 1044 1045				iii)	Maintain these records at the source for a period of three years.			
1045	m)			sel-Elec k Count	tric Locomotive Coating	kg/l	lb/gal	
		1)	Extre	me perf	ormance prime coat	0.42 0.42*	(3.5) (3.5)*	
		2)	Extre	me perf	ormance top-coat (air dried)	0.42 0.42*	(3.5) (3.5)*	
		3)	Final	repair c	oat (air dried)	0.42 0.42*	(3.5) (3.5)*	
		4)	High	-tempera	ature aluminum coating	0.72 0.72*	(6.0) (6.0)*	
1046		5)	All o	ther coa	tings	0.36 0.36*	(3.0) (3.0)*	
1046	n)	Plastic	Parts	Coating	: Automotive/Transportation	kg/l	lb/gal	
		1)	Interi	ors				
			A)	Baked				
				i)	Color coat	0.49*	(4.1)*	
				ii)	Primer	0.46*	(3.8)*	
			B)	Air Dı	ried			

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		i)	Color coat	0.38*	(3.2)*			
		ii)	Primer	0.42*	(3.5)*			
2)	Exter	iors (fle	xible 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)	Speci	alty						
	A)		m metallizing basecoats, base coats	0.66*	(5.5)*			
	B)	coating	coatings, reflective argent gs, air bag cover coatings, ft coatings	0.71*	(5.9)*			
	C)		reducers, vacuum metallizing ts, and texture topcoats	0.77*	(6.4)*			
	D)	ink pac	coatings, adhesion primers, l coatings, electrostatic prep gs, and resist coatings	0.82*	(6.8)*			

**x** 

			E)	Headlamp lens coatings	0.89*	(7.4)*		
1047	o)	Plasti	c Parts	Coating: Business Machine	kg/l	lb/gal		
		1)	Prim	er	0.14*	(1.2)*		
		2)	Colo	r coat (non-texture coat)	0.28*	(2.3)*		
		3)	Colo	r coat (texture coat)	0.28*	(2.3)*		
		4)	frequ	romagnetic interference/radio ency interference (EMI/RFI) ding coatings	0.48*	(4.0)*		
		5)	Spec	ialty Coatings				
			A)	Soft coat	0.52*	(4.3)*		
		,	B)	Plating resist	0.71*	(5.9)*		
10.40			C)	Plating sensitizer	0.85*	(7.1)*		
1048 1049 1050	p) Flat Wood Paneling Coatings. On and after May 1, 2010, flat wood paneling coatings shall comply with one of the following limitations:							
1051 1052		1) 0.25 kg VOM/1 of coatings (2.1 lb VOM/gal coatings); or						
1053 1054		<u>2)</u>	<u>0.35 k</u>	g VOM/1 solids (2.9 lb VOM/gal soli	<u>ds).</u>			
1055 1056	(Sour	ce: Am	ended a	t 34 Ill. Reg, effective	)			
1057 1058	Section 218.205 Daily-Weighted Average Limitations							
$1059 \\ 1060 \\ 1061 \\ 1062 \\ 1063 \\ 1064 \\ 1065 \\ 1066 \\ 1067 \\ 1068 \\ 1069$	No 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 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) 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) No owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a)(1), (a)(4), (c), (d), (e), (f), <del>or</del> (i), <u>or (p)</u> of this Subpart shall apply coatings on any such coating line, during any day, whose daily-							

1070 1071 1072		weighted average VOM content exceeds the emission limitation to which the coatings are subject.
1072	b)	No owner or operator of a miscellaneous metal parts and products coating line
1074		subject to the limitations of Section 218.204(j) of this Subpart shall apply coatings
1075		to miscellaneous metal parts or products on the subject coating line unless the
1076		requirements in subsection $(b)(1)$ or $(b)(2)$ of this Section are met.
1077		
1078		1) For each coating line which applies multiple coatings, all of which are
1079		subject to the same numerical emission limitation within Section
1080		218.204(j) during the same day (e.g., all coatings used on the line are
1081		subject to 0.42 kg(/1 [3.5 lbs/gal)]), the daily-weighted average VOM
1082		content shall not exceed the coating VOM content limit corresponding to
1083		the category of coating used, or
1084		
1085		2) For each coating line which applies coatings subject to more than one
1086		numerical emission limitation in Section 218.204(j) of this Subpart, during
1087		the same day, the owner or operator shall have a site-specific proposal
1088		approved by the Agency and approved by the USEPA as a SIP revision.
1089		To receive approval, the requirements of USEPA's Emissions Trading
1090		Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4,
1091		1986), must be satisfied.
1092		
1093	c)	No owner or operator of a can coating line subject to the limitations of Section
1094		218.204(b) of this Subpart shall operate the subject coating line using a coating
1095		with a VOM content in excess of the limitations specified in Section 218.204(b)
1096		of this Subpart unless all of the following requirements are met:
1097		
1098		1) An alternative daily emission limitation shall be determined for the can
1099		coating operation, i.e., for all of the can coating lines at the source,
1100		according to subsection $(c)(2)$ of this Section. Actual daily emissions shall
1101		never exceed the alternative daily emission limitation and shall be
1102		calculated by use of the following equation.
1103		
1104		$E_d = \sum_{i=1}^n V_i C_i$
1105		
1106		where:
1107		
		$E_d$ = 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 <sub>i</sub> = Volume of each coating applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);	
	C <sub>i</sub> = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from th definition of VOM).	e
1108		
1109	2) The alternative daily emission limitation $(A_d)$ shall be determined for the	
1110 1111	can coating operation, i.e., for all of the can coating lines at the source, or a daily basis as follows:	ł
11112		
	$\frac{n}{D_{c}}$ $D_{c} - C_{c}$	
1113	$A_d = \sum_{i=1}^n V_i L_i \left( \frac{D_i - C_i}{D_i - L_i} \right)$	
1114	$i=1$ $D_i = D_i$	
1114	where:	
1116	where.	
	A <sub>d</sub> = 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 <sub>i</sub> = The VOM content of each surface coating 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);	
	D <sub>i</sub> = The density of VOM in each coating applied. For the purposes of calculating A <sub>d</sub> , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);	

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 $V_i$  = Volume of each surface coating applied for the day in units of l (gal) of coating (minus water and any compounds which 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 (minus water and any compounds which are specifically exempted from the definition of VOM). 1117 1118 d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) of this Subpart shall apply 1119 coatings to heavy off-highway vehicle products on the subject coating line unless 1120 the requirements of subsection (d)(1) or (d)(2) of this Section are met. 1121 1122 1123 1) For each coating line which applies multiple coatings, all of which are 1124 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 1125 1126 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 1127 1128 corresponding to the category of coating used, or 1129 1130 2) For each coating line which applies coatings subject to more than one 1131 numerical emission limitation in Section 218.204(k) of this Subpart, during the same day, the owner or operator shall have a site specific 1132 1133 proposal approved by the Agency and approved by the USEPA as a SIP 1134 revision. To receive approval, the requirements of USEPA's Emissions 1135 Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied. 1136 1137 1138 No owner or operator of a wood furniture coating line subject to the limitations of e) 1139 Section 218.204(1)(1) or (1)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(l) or 1140 subsection (e)(2) of this Section, in addition to the requirements specified in the 1141 1142 note to Section 218.204(1)(1) of this Subpart, are met. 1143 1144 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 1145 218.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all 1146 1147 coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the dailyweighted average VOM content shall not exceed the coating VOM content 1148 1149 limit corresponding to the category of coating used, or 1150

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1151 1152 1153 1154 1155 1156 1157 1158		2)	For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(l)(1) or (l)(3) 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.
1159	f)	No ov	wner or operator of an existing diesel-electric locomotive coating line in
1160	-)		County, subject to the limitations of Section 218.204(m) of this Subpart
1161			apply coatings to diesel-electric locomotives on the subject coating line
1162			s the requirements of subsection $(f)(1)$ or $(f)(2)$ of this Section are met.
1163			
1164		1)	For each coating line which applies multiple coatings, all of which are
1165		,	subject to the same numerical emission limitation within Section
1166			218.204(m) of this Subpart, during the same day (e.g., all coatings used on
1167			the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average
1168			VOM content shall not exceed the coating VOM content limit
1169			corresponding to the category of coating used, or
1170			
1171		2)	For each coating line which applies coatings subject to more than one
1172			numerical emission limitation in Section 218.204(m) of this Subpart,
1173			during the same day, the owner or operator shall have a site specific
1174			proposal approved by the Agency and approved by the USEPA as a SIP
1175			revision. To receive approval, the requirements of USEPA's Emissions
1176			Trading Policy Statement (and related policy) must be satisfied.
1177			
1178	g)		wher or operator of a plastic parts coating line, subject to the limitations of
1179			on 218.204(n) or (o) of this Subpart shall apply coatings to business machine
1180			comotive/transportation plastic parts on the subject coating line unless the
1181		requir	rements of subsection $(g)(1)$ or $(g)(2)$ of this Section are met:
1182			
1183		1)	For each coating line which applies multiple coatings, all of which are
1184			subject to the same numerical emission limitation within Section
1185			218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings
1186			used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted
1187			average VOM content shall not exceed the coating VOM content limit
1188			corresponding to the category of coating used; or
1189		2)	For each section line which another eaching which to make the
1190		2)	For each coating line which applies coatings subject to more than one
1191			numerical emission limitation in Section 218.204(n) or (o) of this Subpart, during the same day, the sumer or emerica shall have a site specific
1192 1193			during the same day, the owner or operator shall have a site specific
1173			proposal approved by the Agency and approved by the USEPA as a SIP

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1194		revision. To receive approval, the requirements of USEPA's Emissions
1195		Trading Policy Statement (and related policy) must be satisfied.
1196	1 \	
1197	h)	No owner or operator of a metal furniture coating line, subject to the limitations
1198		of Section 218.204(g) of this Subpart shall apply coatings on the subject coating
1199		line unless the requirements of subsection $(h)(1)$ or $(h)(2)$ of this Section are met:
1200		
1201		1) For each coating line which applies multiple coatings, all of which are
1202		subject to the same numerical emission limitation within Section
1203		218.204(g) of this Subpart, during the same day (e.g., all coatings used on
1204		the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
1205		VOM content shall not exceed the coating VOM content limit
1206		corresponding to the category of coating used; or
1207		
1208		2) For each coating line which applies coatings subject to more than one
1209		numerical emission limitation in Section 218.204(g) of this Subpart,
1210		during the same day, the owner or operator shall have a site specific
1211		proposal approved by the Agency and approved by the USEPA as a SIP
1212		revision. To receive approval, the requirements of USEPA's Emissions
1213		Trading Policy Statement (and related policy) must be satisfied.
1214		
1215	i)	No owner or operator of a large appliance coating line, subject to the limitations
1216		of Section 218.204(h) of this Subpart shall apply coatings on the subject coating
1217		line unless the requirements of subsection $(i)(1)$ or $(i)(2)$ of this Section are met:
1218		
1219		1) For each coating line which applies multiple coatings, all of which are
1220		subject to the same numerical emission limitation within Section
1221		218.204(h) of this Subpart, during the same day (e.g., all coatings used on
1222		the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
1223		VOM content shall not exceed the coating VOM content limit
1224		corresponding to the category of coating used, or
1225		
1226		2) For each coating line which applies coatings subject to more than one
1227		numerical emission limitation in Section 218.204(h) of this Subpart,
1228		during the same day, the owner or operator shall have a site specific
1229		proposal approved by the Agency and approved by the USEPA as a SIP
1230		revision. To receive approval, the requirements of USEPA's Emissions
1231		Trading Policy Statement (and related policy) must be satisfied.
1232		
1233	(Source	e: Amended at 34 Ill. Reg, effective)
1234		
1235	Section 218.2	07 Alternative Emission Limitations
1236		

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1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254	a)	may co a captu operat: (c), (d) source contro 218.10 Section applica the mo accord capture subsec used as the alte	Any owner or operator of a coating line subject to Section 218.204 of this Subpart may comply with this Section, rather than with Section 218.204 of this Subpart, if a capture system and control device are operated at all times the coating line is in operation and the owner or operator demonstrates compliance with subsections (c), (d), (e), (f), (g), (h), (i), (j), $\Theta$ -(k), or (l) 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 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), $\Theta$ -(k), or (l) of this Subpart only if the 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.					
1255	b)	Alternative Add-On Control Methodologies						
1256	,							
1257		1) The coating line is equipped with a capture system and control device tha						
1258		provides 81 percent reduction in the overall emissions of VOM from the						
1259			coating	g line and the control device has a 90 percent efficiency, or				
1260								
1261		2)	The sy	stem used to control VOM from the coating line is demonstrated to				
1262			have a	n overall efficiency sufficient to limit VOM emissions to no more				
1263			than w	hat is allowed under Section 218.204 of this Subpart. Use of any				
1264		control system other than an afterburner, carbon adsorption, condensation						
1265		or absorption scrubber system can be allowed only if approved by the						
1266			Agenc	y and approved by the USEPA as a SIP revision. The use of transfer				
1267			efficien	ncy credits can be allowed only if approved by the Agency and				
1268			approv	red by the USEPA as a SIP revision. Baseline transfer efficiencies				
1269			and tra	insfer efficiency test methods must be approved by the Agency and				
1270			the US	EPA. Such overall efficiency is to be determined as follows:				
1271								
1272			A)	Obtain the emission limitation from the appropriate subsection in				
1273				Section 218.204 of this Subpart;				
1274								
1275			B)	Calculate "S" according to the equation in Section 218.206 of this				
1276				Subpart;				
1277								
1278			C)	Calculate the overall efficiency required according to Section				
1279				218.105(e) of this Part. For the purposes of calculating this value,				

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1280 1281 1282		according to the equation in Section 218.105(e)(2) of this Part, $VOM_1$ is equal to the value of "S" as determined above in subsection (b)(2)(B) of this Section.
1282		(U(Z)(D)) or this becau.
1285	c)	No owner or operator of a coating line subject to only one of the emission
1285	0)	limitations from among Section 218.204(a)(1), (a)(4), (c), (d), (e), (f), or (i) of this
1286		Subpart and equipped with a capture system and control device shall operate the
1280		subject coating line unless the requirements in subsection $(b)(1)$ or $(b)(2)$ of this
1287		Section are met. No owner or operator of a coating line subject to Section
1280		218.204(a)(2) or $218.204(a)(3)$ and equipped with a capture system and control
1290		device shall operate the coating line unless the owner or operator demonstrates
1290		compliance with such limitation in accordance with the topcoat protocol
1292		referenced in Section 218.105(b).
1293		
1294	d)	No owner or operator of a miscellaneous metal parts and products coating line
1295	,	which applies one or more coatings during the same day, all of which are subject
1296		to the same numerical emission limitation within Section 218.204(j) of this
1297		Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal],
1298		and which is equipped with a capture system and control device shall operate the
1299		subject coating line unless the requirements in subsection $(b)(1)$ or $(b)(2)$ of this
1300		Section are met.
1301		
1302	e)	No owner or operator of a heavy off-highway vehicle products coating line which
1303		applies one or more coatings during the same day, all of which are subject to the
1304		same numerical emission limitation within Section 218.204(k) of this Subpart
1305		(e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal]), and
1306		which is equipped with a capture system and control device shall operate the
1307		subject coating line unless the requirements in subsection $(b)(1)$ or $(b)(2)$ of this
1308		Section are met.
1309		
1310	f)	No owner or operator of an existing diesel-electric locomotive coating line in
1311		Cook County which applies one or more coatings during the same day, all of
1312		which are subject to the same numerical emission limitation within Section
1313		218.204(m) of this Subpart (e.g., all coatings used on the line are subject to 0.42
1314		kg/1 [3.5 lbs/gal]), and which is equipped with a capture system and control
1315		device shall operate the subject coating line unless the requirements in subsection $(h)(1)$ of $(h)(2)$ of this Section are met
1316		(b)(1) or (b)(2) of this Section are met.
1317		No experies an experience of a wood formitize a setting line which any line and
1318	g)	No owner or operator of a wood furniture coating line which applies one or more
1319		coatings during the same day, all of which are subject to the same numerical
1320 1321		emission limitation within Section 218.204(l) of this Subpart (e.g., all coatings
1321		used on the line are subject to 0.67 kg/l [5.6 lbs/gal]), and which is equipped with
1322		a capture system and control device shall operate the subject coating line unless

1323 1324 1325 1326 1327		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.				
1328 1329 1330 1331	h)	No owner or operator of a can coating line which is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection $(h)(1)$ or $(h)(2)$ of this Section are met.				
1331 1332 1333 1334 1335 1336 1337	<ol> <li>An alternative daily emission limitation shall be determined for the coating operation, i.e. for all of the can coating lines at the source, according to Section 218.205(c)(2) of this Subpart. Actual daily en shall never exceed the alternative daily emission limitation and sha calculated by use of the following equation:</li> </ol>					
1338		$E_d = \sum_{i=1}^n V_i C_i  (1 - F_i)$				
1339 1340 1341		where:				
1341		$E_d$ = Actual VOM emissions for the day in units of kg/day (lbs/day);				
		i = Subscript denoting a specific coating applied;				
		n = Total number of surface coatings as applied in the can coating operation;				
		V <sub>i</sub> = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);				
		C <sub>i</sub> = The VOM content of each coating 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) 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.				
1342 1343		2) The coating line is equipped with a capture system and control device that				

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1344		provide 75 percent reduction in the overall emissions of VOM from the
1345		coating line and the control device has a 90 percent efficiency.
1346	•	
1347	i)	No owner or operator of a plastic parts coating line which applies one or more
1348		coatings during the same day, all of which are subject to the same numerical
1349		emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all
1350		coatings used on the line are subject to 0.42 kg/l [3.5 lbs/gal]), and which is
1351		equipped with a capture system and control device shall operate the subject
1352		coating line unless the requirements in subsection $(b)(1)$ or $(b)(2)$ of this Section
1353		are met.
1354	••	
1355	j)	No owner or operator of a metal furniture coating line which applies one or more
1356		coatings during the same day, all of which are subject to the same numerical
1357		emission limitation within Section 218.204(g) of this Subpart (e.g., all coatings
1358		used on the line are subject to 0.34 kg/l [2.8 lbs/gal]), and which is equipped with
1359		a capture system and control device shall operate the subject coating line unless
1360		the requirements in subsection $(b)(1)$ or $(b)(2)$ of this Section are met.
1361	1-)	
1362	k)	No owner or operator of a large appliance coating line which applies one or more
1363		coatings during the same day, all of which are subject to the same numerical
1364		emission limitation within Section 218.204(h) of this Subpart (e.g., all coatings
1365 1366		used on the line are subject to 0.34 kg/l [2.8 lbs/gal]), and which is equipped with
1367		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.
1367		the requirements in subsection $(0)(1)$ of $(0)(2)$ of this Section are met.
1369	<u>1)</u>	No owner or operator of a flat wood paneling coating line that is equipped with a
1370	<u>1)</u>	capture system and control device shall operate the subject coating line unless
1370		either:
1372		
1372		1) The capture system and control device provide at least 90 percent
1374		reduction in the overall emissions of VOM from the coating line; or
1375		<u>realized in the statistic endering of the new the county inter of</u>
1376		2) The owner or operator of the flat wood paneling coating line complies
1377		with all requirements set forth in subsection (b)(2) of this Section.
1378		
1379	(Sourd	ce: Amended at 34 Ill. Reg, effective)
1380	ζ ·····	
1381	Section 218.2	210 Compliance Schedule
1382		
1383	Every owner	or operator of a coating line (of a type included within Section 218.204 of this
1384	•	l comply with the requirements of Section 218.204, 218.205, 218.207 or 218.208
1385		18.211 or Sections 218.212 and 218.213 of this Subpart in accordance with the
1386		$p_{1}$

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1386 appropriate compliance schedule as specified in subsection (a), (b), (c), (d), (e), or (f), or (g)

1387	below:	
1388		
1389	a)	No owner or operator of a coating line which is exempt from the limitations of
1390		Section 218.204 of this Subpart because of the criteria in Section 218.208(a) or
1391		(b) of this Subpart shall operate said coating line on or after a date consistent with
1392		Section 218.106 of this Part, unless the owner or operator has complied with, and
1393		continues to comply with, Section 218.211(b) of this Subpart.
1394		
1395	b)	No owner or operator of a coating line complying by means of Section 218.204 of
1396		this Subpart shall operate said coating line on or after a date consistent with
1397		Section 218.106 of this Part, unless the owner or operator has complied with, and
1398		continues to comply with, Sections 218.204 and 218.211(c) of this Subpart.
1399		
1400	c)	No owner or operator of a coating line complying by means of Section 218.205 of
1401		this Subpart shall operate said coating line on or after a date consistent with
1402		Section 218.106 of this Part, unless the owner or operator has complied with, and
1403		continues to comply with, Sections 218.205 and 218.211(d) of this Subpart.
1404		
1405	d)	No owner or operator of a coating line complying by means of Section 218.207 of
1406		this Subpart shall operate said coating line on or after a date consistent with
1407		Section 218.106 of this Part, unless the owner or operator has complied with, and
1408		continues to comply with, Sections 218.207 and 218.211(e) of this Subpart.
1409		
1410	e)	No owner or operator of a coating line subject to one or more of the emission
1411		limitations contained in Section 218.204 of this Subpart on or after March 15,
1412		1996, choosing to comply by means of Section 218.204, 218.205 or 218.207 of
1413		this Subpart, shall operate said coating line on or after March 15, 1996, unless the
1414		owner or operator complies with and continues to comply with, respectively, the
1415		applicable requirements in Section 218.204, or the alternative control options in
1416		Section 218.205 or 218.207 and the requirements of Section 218.211.
1417		*
1418	f)	No owner or operator of a coating line subject to one or more of the emission
1419	,	limitations contained in Section 218.204 of this Subpart on or after March 15,
1420		1996, choosing to comply by means of Section 218.212 of this Subpart, shall
1421		operate said coating line on or after March 15, 1996, unless the owner or operator
1422		complies with and continues to comply with the requirements of Sections 218.212
1423		and 218.213 of this Subpart.
1424		^
1425	<u>g)</u>	No owner or operator of a coating line subject to the emission limitations
1426		contained in Section 218.204(p) of this Subpart shall operate that coating line on
1427		or after a date consistent with Section 218.106(e) of this Part, unless the owner or
1428		operator has complied with, and continues to comply with, Section 218.204(p) or
1429		the alternative control options in Section 218.205 or 218.207, and the

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1430	1	requirements	of Section	as 218.211 and 218.2	217 of this Subna	rt as applicable
1431	-		01 000000	10 210.211 und 210.		tt, do applicació.
1432	(Source	: Amended	at 34 III. R	eg, effectiv	e )	1
1433				-8, -1212.	)	
1434	Section 218.21	1 Recordke	eping and	Reporting		
1435			• 0			
1436	a) (	Гhe VOM cc	ontent of ea	hich coating and the	efficiency of each	capture system and
1437	(	control devic	e shall be	determined by the a	pplicable test met	hods and procedures
1438	S	specified in S	Section 218	8.105 of this Part to	establish the reco	rds required under
1439	t	his Section.				
1440						
1441			-	+	-	rom the limitations of
1442				Subpart because of	Section 218.208(	a) or (b) of this
1443	L.	Subpart shall	comply w	ith the following:		
1444					10 200(.) . 641	0 1 4 1 14
1445				mpt under Section 2	. ,	
1446 1447				Section 218.106 of t		-
1447			-			subsection (b) of this ne or group of coating
1449					Ų	08(a) of this Subpart.
1450			-	on shall include:	01 0000001 210.2	
1451		54011	oortinoutic	in bhun morado.		
1452		A)	A declar	ation that the coatin	g line or group of	coating lines is
1453		,		from the limitations		-
1454			-	of Section 218.208(		1
1455				Ň	, I	, 
1456		B)	Calculat	ions which demonst	rate that the comb	oined VOM
1457			emission	is from the coating l	ines or group of c	oating lines never
1458			exceed 6	.8 kg (15 lbs) per da	y before the appl	ication of capture
1459						quation shall be used
1460			to calcul	ate total VOM emis	sions:	
1461						
1462			$T_e = \sum_{j=1}^m$	$\sum_{i=1}^n (A_i B_i)_j$		
1463						
1464			where:			
1465						
			T <sub>e</sub> =		apture systems ar	lines each day before nd control devices in

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	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	=	Total number of coatings as applied each day on each coating line;
	i	=	Subscript denoting an individual coating;
	V <sub>i</sub>	=	Weight of VOM per volume of each coating (minus water and any compounds which 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
	Bi	=	Volume of each coating (minus water and any compounds which 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 shall be described in the certification to the Agency.
2)	15, 1998, or a group of c certify to the	upc oati e Ag	mpt under Section 218.208(b) of this Subpart, by March on initial start-up, the owner or operator of a coating line or ng lines referenced in subsection (b) of this Section shall gency that the source is exempt under the provisions of 5(b) of this Subpart. Such certification shall include:
	Sect	ion 2	ation that the source is exempt from the limitations of 218.204(l) of this Subpart because of Section 218.208(b) ubpart; and
	· ·		ions which demonstrate that the source meets the criteria aption because of Section 218.208(b) of this Subpart.
3)	a date considered of a coating shall collect	sten line and	mpt under Section 218.208(a) of this Subpart, on and after t with Section 218.106 of this Part, the owner or operator or group of coating lines referenced in this subsection record all of the following information each day for each maintain the information at the source for a period of

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1486 1487 1488 1489	A) The name and identification number of each coating as applied on each coating line; and	
1490 1491 1492 1493	B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.	
1494 1495 1496 1497 1498 1499	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) 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:	
1500 1501 1502 1503	A) The name and identification number of each coating as applied on each coating line; and	
1503 1504 1505 1506 1507 1508	B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.	
1508 1509 1510 1511 1512 1513 1514 1515 1516 1517	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) 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 the application of capture systems and control devices by sending a copy of such record to the Agency within 30 days after the exceedance occurs.	
1518 1519 1520 1521 1522 1523	6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(1) of this Subpart because of Section 218.208(b) 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 such an exceedance within 30 days after the change occurs.	
1524 1525 c) 1526 1527 1528	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) or (a)(3) of this Subpart and complying by means of Section 218.204 of this Subpart shall comply with the following:	

1529			
1530	1)	Bvad	date consistent with Section 218.106 of this Part, or upon initial start-
1531	/	-	a new coating line, or upon changing the method of compliance from
1532		-	isting subject coating line from Section 218.205, Section 218.207,
1533			on 218.215, or Section 218.216 of this Subpart to Section 218.204 of
1534			ubpart; the owner or operator of a subject coating line shall certify to
1535			gency that the coating line will be in compliance with Section
1536			04 of this Subpart on and after a date consistent with Section
1537			06 of this Part, or on and after the initial start-up date. Such
1538			ication shall include:
1539			
1540		A)	The name and identification number of each coating as applied on
1541		,	each coating line;
1542			5 /
1543		B)	The weight of VOM per volume of each coating (minus water and
1544		,	any compounds which are specifically exempted from the
1545			definition of VOM) as applied each day on each coating line; and
1546			
1547		C)	On and after March 15, 1998, for coating lines subject to the
1548		,	limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the
1549			weight of VOM per weight of solids in each coating as applied
1550			each day on each coating line; and.
1551			, , , , , , , , , , , , , , , , , , , ,
1552		<u>D)</u>	For coating lines subject to the limitations of Section 218.204(p) of
1553		<u>.</u>	this Subpart, the weight of VOM per volume of coatings or solids,
1554			as applicable, as applied each day on each coating line.
1555			
1556	2)	On an	d after a date consistent with Section 218.106 of this Part, or on and
1557		after t	he initial start-up date, the owner or operator of a subject coating
1558			hall collect and record all of the following information each day for
1559			coating line and maintain the information at the source for a period of
1560		three	years:
1561			
1562		A)	The name and identification number of each coating as applied on
1563			each coating line;
1564			
1565		B)	The weight of VOM per volume of each coating (minus water and
1566			any compounds which are specifically exempted from the
1567			definition of VOM) as applied each day on each coating line;
1568			
1569		C)	On and after March 15, 1998, for coating lines subject to the
1570			limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the
1571			weight of VOM per weight of solids in each coating as applied

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1572 1573	·		each day on each coating line and certified product data sheets for each coating; <del>and</del>
1574 1575 1576 1577 1578 1579 1580		D)	On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 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; and-
1580 1581 1582 1583 1584		<u>E)</u>	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, as applied each day on each coating line.
1584 1585 1586 1587 1588		or of	and after a date consistent with Section 218.106 of this Part, the owner perator of a subject coating line shall notify the Agency in the owing instances:
1589 1590 1591 1592 1593		A)	Any record showing violation of Section 218.204 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the <u>occurrenceoccurrance</u> of the violation.
1594 1595 1596 1597 1598 1599 1600 1601 1602 1603		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 below, respectively. Upon changing the method of compliance from Section 218.204 of this Subpart to Section 218.205 of this Subpart or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.
1604 1605 1606	d)	218.204 of t	or operator of a coating line subject to the limitations of Section his Subpart and complying by means of Section 218.205 of this I comply with the following:
1607 1608 1609 1610 1611 1612 1613 1614		up of an ex of th of th will	date consistent with Section 218.106 of this Part, or upon initial start- f a new coating line, or upon changing the method of compliance for cisting subject coating line from Section 218.204 or Section 218.207 is Subpart to Section 218.205 of this Subpart; the owner or operator e subject coating line shall certify to the Agency that the coating line be in compliance with Section 218.205 of this Subpart on and after a consistent with Section 218.106 of this Part, or on and after the initial

1615		start-u	p date. Such certification shall include:
1616			
1617		A)	The name and identification number of each coating line which
1618			will comply by means of Section 218.205 of this Subpart.
1619			- · · · <b>·</b>
1620		B)	The name and identification number of each coating as applied on
1621		,	each coating line.
1622			Ŭ
1623		C)	The weight of VOM per volume and the volume of each coating
1624		,	(minus water and any compounds which are specifically exempted
1625			from the definition of VOM) as applied each day on each coating
1626			line.
1627			
1628		D)	On and after March 15, 1998, for coating lines subject to the
1629		,	limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the
1630			weight of VOM per weight of solids in each coating as applied
1631			each day on each coating line.
1632			,
1633		<u>E)</u>	For coating lines subject to the limitations of Section 218.204(p) of
1634			this Subpart, the weight of VOM per volume of coatings or solids,
1635			as applicable, as applied each day on each coating line.
1636			
1637		<u>F</u> E)	The instrument or method by which the owner or operator will
1638			accurately measure or calculate the volume of each coating as
1639			applied each day on each coating line.
1640			
1641		<u>G</u> F)	The method by which the owner or operator will create and
1642			maintain records each day as required in subsection (d)(2) of this
1643			Section.
1644			
1645		<u>H</u> G)	An example of the format in which the records required in
1646			subsection (d)(2) of this Section will be kept.
1647			
1648	2)	On and	d after a date consistent with Section 218.106 of this Part, or on and
1649	,		he initial start-up date, the owner or operator of a subject coating
1650			all collect and record all of the following information each day for
1651			oating line and maintain the information at the source for a period of
1652		three y	-
1653		0	
1654		A)	The name and identification number of each coating as applied on
1655		/	each coating line.
1656			······································
1657		B)	The weight of VOM per volume and the volume of each coating

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1658				(minus water and any compounds which are specifically exempted
1659				from the definition of VOM) as applied each day on each coating
1660				line.
1661				
1662			C)	On and after March 15, 1998, for coating lines subject to the
1663			,	limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the
1664				weight of VOM per weight of solids in each coating as applied
1665				each day on each coating line.
1666				
1667			<u>D)</u>	For coating lines subject to the limitations of Section 218.204(p) of
1668			<b>/</b> -	this Subpart, the weight of VOM per volume of coatings or solids,
1669				as applicable, as applied each day on each coating line.
1670				
1671			<u>E</u> Ð)	The daily-weighted average VOM content of all coatings as
1672			<u>=</u> ,	applied on each coating line as defined in Section 218.104 of this
1673				Part.
1674				
1675		3)	On and	d after a date consistent with Section 218.106 of this Part, the owner
1676		2)		rator of a subject coating line shall notify the Agency in the
1677			-	ving instances:
1678				
1679			A)	Any record showing violation of Section 218.205 of this Subpart
1680				shall be reported by sending a copy of such record to the Agency
1681				within 30 days following the occurrence of the violation.
1682				······································
1683			B)	At least 30 calendar days before changing the method of
1684				compliance with this Subpart from Section 218.205 of this Subpart
1685				to Section 218.204 or Section 218.207 of this Subpart, the owner
1686				or operator shall comply with all requirements of subsection $(c)(1)$
1687				or (e)(1) of this Section, respectively. Upon changing the method
1688				of compliance with this subpart from Section 218.205 to Section
1689				218.204 or Section 218.207 of this Subpart, the owner or operator
1690				shall comply with all requirements of subsection (c) or (e) of this
1691				Section, respectively.
1692				
1693	e)	Any o	wner or	operator of a coating line subject to the limitations of Section
1694	,			s Subpart and complying by means of Section 218.207(c), (d), (e),
1695				or (1) of this Subpart shall comply with the following:
1696			- \)4	
1697		1)	By a d	ate consistent with Section 218.106 of this Part, or upon initial start-
1698			-	a new coating line, or upon changing the method of compliance for
1699			-	sting coating line from Section 218.204 or Section 218.205 of this
1700				rt to Section 218.207 of this Subpart, the owner or operator of the
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1701 1702 1703 1704 1705 1706		results subject Subpa on and	et coating line shall perform all tests and submit to the Agency the s of all tests and calculations necessary to demonstrate that the et coating line will be in compliance with Section 218.207 of this art on and after a date consistent with Section 218.106 of this Part, or d after the initial start-up date.
1707 1708 1709 1710 1711 1712	2)	after t line sl	Id after a date consistent with Section 218.106 of this Part, or on and the initial start-up date, the owner or operator of a subject coating hall collect and record all of the following information each day for coating line and maintain the information at the source for a period of years:
1712 1713 1714 1715 1716		A)	The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 218.207(b)(2) of this Subpart.
1717 1718		B)	Control device monitoring data.
1718 1719 1720 1721		C)	A log of operating time for the capture system, control device, monitoring equipment and the associated coating line.
1722 1723 1724 1725 1726		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.
1727 1728 1729 1730	3)	or ope	d after a date consistent with Section 218.106 of this Part, the owner erator of a subject coating line shall notify the Agency in the ving instances:
1731 1732 1733 1734		A)	Any record showing violation of Section 218.207 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
1735 1736 1737 1738 1739 1740 1741 1742 1743		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 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 shall comply with all requirements of subsection (c) or (d) of this Section, respectively.

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1744				
1745	f)	Any o	owner of	r operator of a primer surfacer operation or topcoat operation subject
1746	,			ons of Section 218.204(a)(2) or (a)(3) of this Subpart shall comply
1747			he follo	
1748				C .
1749		1)	Byac	late consistent with Section 218.106 of this Part, or upon initial start-
1750		,		a new coating operation, the owner or operator of a subject coating
1751			~	tion shall certify to the Agency that the operation will be in
1752				liance with Section 218.204 of this Subpart on and after a date
1753				stent with Section 218.106 of this Part, or on and after the initial
1754				up date. Such certification shall include:
1755				F
1756			A)	The name and identification number of each coating operation
1757			)	which will comply by means of Section $218.204(a)(2)$ and $(a)(3)$ of
1758				this Subpart and the name and identification number of each
1759				coating line in each coating operation.
1760				county into in out county operation.
1761			B)	The name and identification number of each coating as applied on
1762			2)	each coating line in the coating operation.
1763				ouon couning mile in the couning operation.
1764			C)	The weight of VOM per volume of each coating (minus water and
1765			0)	any compounds which are specifically exempted from the
1766				definition of VOM) as applied each day on each coating line.
1767				a children of voiri) as appred caon day on each country inte.
1768			D)	The transfer efficiency and control efficiency measured for each
1769			D)	coating line.
1770				oounig mio.
1771			E)	Test reports, including raw data and calculations documenting the
1772			<i></i> )	testing performed to measure transfer efficiency and control
1773				efficiency.
1774				
1775			F)	The instrument or method by which the owner or operator will
1776			-)	accurately measure or calculate the volume of each coating as
1777				applied each day on each coating line.
1778				appired each day on each county mic.
1779			G)	The method by which the owner or operator will create and
1780			0)	maintain records each day as required in subsection $(f)(2)$ below.
1781				
1782			H)	An example format for presenting the records required in
1783			~~)	subsection $(f)(2)$ -below.
1784				
1785		2)	On an	d after a date consistent with Section 218.106 of this Part, or on and
1786		~)		he initial start-up date, the owner or operator of a subject coating
1/00			union li	the matter state up date, the owner of operator of a subject coating

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1787 1788 1789 1790	operation 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:
1790 1791 1792 1793 1794 1795 1796	<ul> <li>All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart including:</li> </ul>
1790 1797 1798 1799	i) The name and identification number of each coating as applied on each coating operation.
1800 1801 1802 1803 1804	ii) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating operation.
1804 1805 1806 1807 1808 1809 1810 1811 1812	B) If a control <u>device or devices aredevice(s)</u> is 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.
1812         1813       3)         1814         1815         1816         1817         1818         1819         1820	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 shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart within 10 days from the end of the month and maintain this information at the source for a period of three years.
1820 1821 4) 1822 1823 1824	On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:
1824 1825 1826 1827 1828 1829	<ul> <li>Any record showing a violation of Section 218.204(a)(2) or (a)(3) of this Subpart shall be reported by sending a copy of such record to the Agency within 15 days from the end of the month in which the violation occurred.</li> </ul>

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1830 1831 1832 1833 1834 1835 1836 1837		B) The owner or operator shall notify the Agency of any change to the operation at least 30 days before the change is effected. The Agency shall determine whether or not compliance testing is required. If the Agency determines that compliance testing is required, then the owner or operator shall submit a testing proposal to the Agency within 30 days and test within 30 days of the approval of the proposal by the Agency and USEPA.
1838	(n)	On and after a date consistent with Section 218.106(e) of this Part, or on and after
	<u>g)</u>	
1839		the initial start-up date, whichever is later, the owner or operator of a flat wood
1840		paneling coating line subject to the requirements in Section 218.217 of this
1841		Subpart shall comply with the following:
1842 1843		1) Dy May 1, 2010, on your initial start we which even is later submit a
1843 1844		1) By May 1, 2010, or upon initial start-up, whichever is later, submit a
1845		certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the
1845		applicable requirements in Section 218.217(c) and 218.217(d) of this
1840		Subpart; and
1848		Subpart, and
1849		2) Notify the Agency of any violation of Section 218.217 of this Subpart by
1850		providing a description of the violation and copies of records documenting
1851		such violation to the Agency within 30 days following the occurrence of
1852		the violation.
1853		
1854	(Sourc	ce: Amended at 34 Ill. Reg, effective)
1855		
1856	Section 218.2	212 Cross-Line Averaging to Establish Compliance for Coating Lines
1857		
1858	a)	On and after March 15, 1996, any owner or operator of a coating line subject to
1859		the limitations set forth in Section 218.204 of this Subpart, except coating lines
1860		subject to the limitations in Section 218.204(p) of this Subpart, and with coating
1861		lines in operation prior to January 1, 1991 ("pre-existing coating lines"), may, for
1862		pre-existing coating lines only, elect to comply with the requirements of this
1863		Section, rather than complying with the applicable emission limitations set forth
1864		
		in Section 218.204, if an operational change of the type described below has been
1865		made after January 1, 1991, to one or more pre-existing coating lines at the
1866		made after January 1, 1991, to one or more pre-existing coating lines at the source. An operational change occurs when a pre-existing coating line is replaced
1866 1867		made after January 1, 1991, to one or more pre-existing coating 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
1866 1867 1868		made after January 1, 1991, to one or more pre-existing coating 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
1866 1867 1868 1869		made after January 1, 1991, to one or more pre-existing coating 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 shall operate pursuant to
1866 1867 1868 1869 1870		made after January 1, 1991, to one or more pre-existing coating 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
1866 1867 1868 1869	b)	made after January 1, 1991, to one or more pre-existing coating 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 shall operate pursuant to

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1873		limita	ation in Section 218.204 of this Subpart and electing to rely on this Section to						
1874		demo	demonstrate compliance with this Subpart must establish, by use of the equations						
1875		in sub	in subsection (d) of this Section, that the calculated actual daily VOM emissions						
1876		from	from all participating coating lines, as defined below, are less than the calculated						
1877			daily allowable VOM emissions from the same group of coating lines. For any						
1878		pre-ez	xisting coating line to be aggregated for the purposes of Section 218.212,						
1879		-	13, or 218.214 of this Subpart ("participating coating lines"), the source						
1880			establish that:						
1881									
1882		1)	All coatings applied on the participating coating line shall, at all times,						
1883		,	have a VOM content less than or equal to the applicable VOM content						
1884			limitation for such coating listed in Appendix H of this Part; and						
1885			<i>b b b b b b b b b b</i>						
1886		2)	On the date the source elects to rely on this Section to demonstrate						
1887			compliance with this Subpart, all coatings applied on the participating						
1888			coating line are not already in compliance with the VOM content						
1889			limitation for such coating effective on or after March 15, 1996; or the						
1890			participating coating line is a replacement line, as defined in subsection (a)						
1891			of this Section with an operational change occurring on or after January 1,						
1892			1991.						
1893									
1894	c)	Notw	ithstanding subsection (a) of this Section, any owner or operator of a coating						
1895	0)		ubject to the limitations set forth in Section 218.204 of this Subpart and						
1896			ng to rely on this Section to demonstrate compliance with this Subpart, may						
1897			nclude as a participating coating line, until December 31, 1999, only, any						
1898			cement line that satisfies all of the following conditions:						
1899		Topiac	conditions.						
1900		1)	The replacement line is operated as a powder coating line;						
1900		1)	The repracement line is operated as a powder coating line,						
1902		2)	The replacement line was added after July 1, 1988; and						
1902		2)	The replacement line was added after sally 1, 1900, and						
1904		3)	The owner or operator also includes as a participating coating line one or						
1905		5)	more coating lines that satisfy the criteria of a replacement line, as						
1906			described in subsection (a) of this Section.						
1907									
1908	d)	Tode	monstrate compliance with this Section, a source shall establish the						
1908	u)	follow	-						
1910		101107	· ····5·						
1910		1)	An alternative daily emission limitation shall be determined for all						
1912		1)	participating coating lines at the source according to subsection (d)(2) of						
1912			this Section. All participating coating lines shall be factored in each day						
1913			to demonstrate compliance. Provided compliance is established pursuant						
1914			to the requirements in this subsection, nothing in this Section requires						
1715			to the requirements in this subsection, nothing in this section requires						

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daily operation of each participating line. Actual daily emissions from all participating coating lines  $(E_{[d]})$  shall never exceed the alternative daily emission limitation  $(A_{[d]})$  and shall be calculated by use of the following equation:

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

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where:

- E<sub>d</sub> = 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<sub>i</sub> = Volume of each coating applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
- C<sub>i</sub> = The VOM content of each coating 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).
- 2) The alternative daily emission limitation  $(A_{[d]})$  shall be determined for all participating coating lines at the source on a daily basis as follows:

$$A_d = A_1 + A_p$$

where  $A_1$  and  $A_p$  are defined in subsections (2)(A) and (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<sub>1</sub>) shall be determined for all such participating non-powder coating lines on a daily basis as follows:

$$A_{1} = \sum_{i=1}^{n} V_{i} L_{i} \frac{(D_{i} - C_{i})}{(D_{i} - L_{i})}$$

1940 1941	where:
1942	A <sub>1</sub> = 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 <sub>i</sub> = The VOM content of each coating 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);
	D <sub>i</sub> = The density of VOM in each coating applied. For the purposes of calculating A <sub>l</sub> , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
	V <sub>i</sub> = Volume of each coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
	<ul> <li>L<sub>i</sub> = 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 (minus water and any compounds which are specifically exempted from the definition of VOM).</li> </ul>
1943	
1944	B) The portion of the alternative daily emission limitation for coating
1945 1946	operations at a source using powdered coating $(A_p)$ shall be determined for all such participating powder coating lines at the
1947	determined for all such participating powder coating lines at the source on a daily basis as follows:
1948	
1949	$A_{p} = \sum_{h=1}^{m} \sum_{i=1}^{n} \frac{V_{j}L_{j}D_{j}K_{h}}{(D_{i} - L_{i})}$
1950	"-• J • × J J /
1951	where:
1952	

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A<sub>p</sub> = 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<sub>j</sub> = 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; and
- L<sub>j</sub> = 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 (minus water and any compounds which 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 which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained 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 shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
  - i) K cannot exceed 0.9 for non-recycled powder coating systems; or
  - ii) K cannot exceed 2.0 for recycled powder coating systems.

1955	
1954	(Source: Amended at 34 Ill. Reg, effective)
1955	
1956	Section 218.217 Wood Furniture Coating and Flat Wood Paneling Coating Work Practice
1957	Standards
1958	
1959	a) Spray booth cleaning. Each owner or operator of a source subject to the

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1960 1961 1962 1963 1964 1965 1966 1967		contai comp metal being the bc	ining mo onents o filters, u refurbis ooth is bo	Section 218.204(1) of this Subpart shall not use compounds ore than 8.0 percent, by weight, of VOM for cleaning spray booth ther than conveyors, continuous coaters and their enclosures, and unless the spray booth is being refurbished. If the spray booth is hed, that is, the spray booth coating or other material used to cover eing replaced, the affected source shall use no more than 1.0 gallon vent to prepare the booth prior to applying the booth coating.
1968	<u>b)</u>	Appli	cation e	quipment requirements. No owner or operator of a source subject to
1969	<u>/</u>			s of Section 218.204(1) of this Subpart shall use conventional air
1970				apply coating materials to wood furniture under the circumstances
1971				bsections (b)(1) through (4) of this Section:
1972		2		
1973		<u>1)</u>	<u>To app</u>	bly coating materials that have a VOM content no greater than 1.0
1974				M/kg solids (1.0 lb VOM/lb solids), as applied;
1975				
1976		<u>2)</u>	For rep	pair coating under the following circumstances:
1977				
1978			<u>A)</u>	The coating materials are applied after the completion of the
1979				coating operation; or
1980				
1981			<u>B)</u>	The coating materials are applied after the stain and before any
1982				other type of coating material is applied, and the coating materials
1983				are applied from a container that has a volume of no more than 2.0
1984				<u>gallons;</u>
1985		•		
1986		<u>3)</u>		spray gun is aimed and triggered automatically, rather than
1987			manua	<u>lly; or</u>
1988			TC .	
1989		<u>4)</u>		ssions from the finishing application station are directed to a control
1990			device	pursuant to Section 218.216 of this Subpart
1991	a <b>1</b> a)	Class	in a and	
1992 1993	<u>c</u> b)		-	storage requirements. Each owner or operator of a source subject to
1993		the m	mations	s of Section 218.204(1) or 218.204(p) of this Subpart shall:
1994 1995		1)	Voon	store and dispass of all apating algoning and washoff motorials in
1995		1)	·	store, and dispose of all coating, cleaning, and washoff materials in containers;
1990			010300	containers,
1997		2)	Pump	or drain all organic solvent used for line cleaning into closed
1999		<i>2</i> )	contair	
2000				10,0,
2000		3)	Collect	t all organic solvent used to clean spray guns in closed containers;
2002		-,	and	sort ent used to stour opray Suns in closed containers,

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2002			
2003			
2004		4)	Control emissions from washoff operations by using closed tanks.
2005			
2006	<u>d)</u>		ional cleaning and storage requirements for flat wood paneling coating lines.
2007		Every	owner or operator of a source subject to the limitations of Section
2008		<u>218.2</u>	04(p) of this Subpart shall:
2009			
2010		<u>1)</u>	Minimize spills of VOM-containing coatings, thinners, and cleaning
2011			materials and clean up spills immediately;
2012			
2012		<u>2)</u>	Minimize emissions of VOM during the cleaning of storage, mixing, and
2013		<u>=</u> ]	conveying equipment; and
2014			conveying equipment, and
2015		2)	V con mixing waggels that contain VOM containing contings and other
		<u>3)</u>	Keep mixing vessels that contain VOM-containing coatings and other
2017			VOM-containing materials closed except when specifically in use.
2018	`	A 1*	
2019	<del>c)</del>		cation equipment requirements. No owner or operator of a source subject to
2020			nitations of Section 218.204(1) of this Subpart shall use conventional air
2021			guns to apply coating materials to wood furniture except under the
2022		circur	nstances specified in subsections (c)(1) through (4) of this Section:
2023			
2024		<del>1)</del>	To apply coating materials that have a VOM content no greater than 1.0
2025			kg VOM/kg solids (1.0 lb VOM/lb solids), as applied;
2026			
2027		<del>2)</del>	For repair coating under the following circumstances:
2028			
2029			A) The coating materials are applied after the completion of the
2030			coating operation; or
2031			
2032			B) The coating materials are applied after the stain and before any
2033			other type of coating material is applied, and the coating materials
2034			are applied from a container that has a volume of no more than 2.0
2035			gallons;
2036			
2037		<del>3)</del>	If the spray gun is aimed and triggered automatically, rather than
2038			manually; or
2039			
2040		4)	If emissions from the finishing application station are directed to a control
2041		,	device pursuant to Section 218.216 of this Subpart.
2042			
2043	(Sour	ce: Am	ended at 34 Ill. Reg., effective )
2044	<u>(</u> =		
2045			SUBPART H: PRINTING AND PUBLISHING

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2047	Section 218	401 FI	exograr	ohic an	d Rotogravure Printing
2048	500000 210.	101 11	erograf	Jine an	a Rotogi avai e i finting
2049	a)	No o	wner or	operate	or of a subject flexographic <del>, packaging rotogravure</del> or
2050					rure printing line shall apply at any time any coating or ink
2051				-	itent does not exceed the limitation specified in either
2052					(a)(2), as applicable below. Compliance with this Section
2053					ed through the applicable coating or ink analysis test methods
2054		and p	rocedur	es spec	tified in Section 218.105(a) of this Part and the recordkeeping
2055					ements specified in Section 218.404(c) of this Part. As an
2056		alterr	native to	compl	iance with this subsection, a subject printing line may meet
2057		the re	equiremo	ents of	subsection (b) or (c)-below.
2058					
2059		<u>1)</u>	<u>Prior</u>	to May	<u>v 1, 2010, either:</u>
2060					
2061			<u>A</u> 1)		percent VOM by volume of the coating and ink (minus water
2062					iny compounds which are specifically exempted from the
2063				defin	ition of VOM);; or
2064				<b>T</b>	
2065			<u>B</u> 2)		nty-five percent VOM by volume of the volatile content in the
2066 2067				coati	ng and ink <u>; and</u> -
2067		<u>2)</u>	On or	d after	May 1, 2010:
2068		<u> 2</u> ]	<u>On ar</u>	iu anei	<u>Iviay 1, 2010.</u>
2009			<u>A)</u>	For o	week operators of flexographic or rotogravure printing lines
2070			<u>11</u>		lo not print flexible packaging, either:
2072				<u>unar</u> c	to not print nombre puckaging, other.
2073				<u>i)</u>	Forty percent VOM by volume of the coating and ink
2074				<u> </u>	(minus water and any compounds that are specifically
2075					exempted from the definition of VOM); or
2076					
2077				<u>ii)</u>	<u>Twenty-five percent VOM by volume of the volatile</u>
2078					content in the coating and ink;
2079					
2080			<u>B)</u>		wners or operators of flexographic or rotogravure printing
2081					that print flexible packaging, or that print flexible packaging
2082				and n	on-flexible packaging on the same line, either:
2083				•.	
2084				<u>i)</u>	<u>0.8 kg VOM/kg (0.8 lbs VOM/lb) solids applied; or</u>
2085				••	
2086				<u>ii)</u>	0.16 kg VOM/kg (0.16 lbs VOM/lb) inks and coatings
2087					applied.
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#### b) <u>Weighted averaging alternative.</u>

1) Prior to May 1, 2010, no No owner or operator of a subject flexographic, packaging rotogravure or publication rotogravure printing line shall apply coatings or inks on the subject printing line unless the weighted average, by volume, VOM content of all coatings and inks as applied each day on the subject printing line does not exceed the limitation specified in either subsection (a)(1)(A) (as determined by subsection (b)(1)(A)) or subsection (a)(12)(B)) (as determined by subsection (b)(12)(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.

<u>A</u>+) The following equation 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) 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 Where:

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- VOM<sub>(i)(A)</sub> = The weighted average VOM content in units of percent VOM by volume of all coatings and inks (minus water and any compounds which are specifically exempted from the definition of VOM) used each day;
  - = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings and/or inks as applied each day on a printing line;
- C<sub>i</sub> = The VOM content in units of percent VOM by volume of each coating or ink as applied (minus water and any compounds which are specifically exempted from the definition of VOM);
- L<sub>i</sub> = The liquid volume of each coating or ink as applied in units of l (gal);

V<sub>si</sub> = The volume fraction of solids in each coating or ink as applied; and

 $V_{\text{VOMi}}$ 

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- ii = The volume fraction of VOM in each coating or ink as applied.
- <u>B2</u>) The following equation 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  $(a)(\underline{12})(\underline{B})$  of this Section.

$$Vom_{(i)(B)} = \frac{\sum_{i=1}^{n} C_{i}L_{i}V_{vmi}}{\sum_{i=1}^{n} L_{i}V_{vmi}}$$

i

 $C_i$ 

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where:

- VOM<sub>(i)(B)</sub> = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;
  - = Subscript denoting a specific coating or ink as applied;
- n = The number of different coatings and/or inks as applied each day on each printing line;
  - The VOM content in units of percent VOM by volume of the volatile matter in each coating or ink as applied;
  - 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.
- 2123 On and after May 1, 2010, no owner or operator of a subject flexographic 2) or rotogravure printing line that does not print flexible packaging shall 2124 apply coatings or inks on the subject printing line unless the weighted 2125 average, by weight, VOM content of all coatings and inks as applied each 2126 day on the subject printing line does not exceed the limitation specified in 2127 either subsection (a)(2)(A)(i) (calculated in accordance with the equation 2128 in subsection (b)(1)(A) or subsection (a)(2)(A)(ii) (calculated in 2129 accordance with the equation in subsection (b)(1)(B) of this Section. 2130 Compliance with this subsection (b)(2) shall be demonstrated through the 2131

2132 2133 2134 2135		Section 2	18.1	ating or ink analysis test methods and procedures specified in 05(a) of this Part and the recordkeeping and reporting specified in Section 218.404(d) of this Subpart.
2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2144 2145 2146 2147 2148 2149	<u>3)</u>	or rotogra flexible p apply coa average, l day on th either sub in subsect accordance Compliar applicable Section 2	avur acka ting by w e su sect tion ce w ice v e co 18.1	May 1, 2010, no owner or operator of a subject flexographic e printing line that prints flexible packaging, or that prints aging and non-flexible packaging on the same line, shall is or inks on the subject printing line unless the weighted veight, VOM content of all coatings and inks as applied each bject printing line does not exceed the limitation specified in tion (a)(2)(B)(i) (calculated in accordance with the equation (b)(3)(A)) or subsection (a)(2)(B)(ii) (calculated in tith the equation in subsection (b)(3)(B)) of this Section. with this subsection (b)(3) shall be demonstrated through the ating or ink analysis test methods and procedures specified in 05(a) of this Part and the recordkeeping and reporting specified in Section 218.404(d) of this Subpart.
2149 2150 2151 2152 2153 2154		av or su	verages the bsec	billowing equation shall be used to determine if the weighted ge VOM content of all coatings and inks as applied each day e subject printing line exceeds the limitation specified in ction (a)(2)(B)(i) of this Section.
2155		$Vom_{(A)} = -$	$\sum_{i=1}^{n}$	$\frac{W_i}{W_i}$
2156 2157 2158		where:	1-1	The weighted average VOM content in units of kg VOM per kg (lbs VOM per lb) solids of all coatings and inks used
		<u>i</u>	=	each day; Subscript denoting a specific coating or ink as applied;
		<u>n</u>	=	The number of different coatings and/or inks as applied each day on a printing line;
		<u>C</u> <sub>i</sub>	=	The VOM content in units of kg VOM per kg (lbs VOM per lb) solids of each coating or ink as applied;
		$\underline{W}_{\underline{i}}$	=	Weight of solids in each coating or ink, as applied, in units of kg/l (lb/gal).

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2184 2185  $Vom_{(B)} = \frac{\sum_{i=1}^{n} C_i L_i}{\sum_{i=1}^{n} L_i}$ 

B)

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n

- 2167 <u>where:</u> 2168
  - $\frac{\text{VOM}_{(B)}}{\text{VOM per weight in kg (lbs) of all coatings or inks as}}$

The following equation 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.

- <u>Subscript denoting a specific coating or ink as applied;</u>
- The number of different coatings and/or inks as applied each day on each printing line;
- $\underline{C}_i \equiv \underline{\text{The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;}$
- $\underline{L}_{i} \equiv \underline{\text{The weight of each coating or ink, as applied, in units of}}_{\underline{kg/l (lb/gal).}}$
- c) <u>Capture system and control device requirements.</u>
  - <u>Prior to May 1, 2010, no No</u> owner or operator of a subject flexographic, packaging rotogravure or publication 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), (c)(1)(B)(2), or (c)(13)(C), as well asand subsections (c)(14)(D), (c)(5), and (c)(6) below.
    - $\underline{A}$  <u>One of:</u>
      - <u>i)</u>1) A carbon adsorption system is used <u>thatwhich</u> reduces the captured VOM emissions by at least 90 percent by weight;
         or
      - <u>ii)</u>2) An incineration system is used <u>that which</u> reduces the

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2186 2187 2188				captured VOM emissions by at least 90 percent by weight $\frac{1}{27}$ or
2188			<u>iii)</u> 3)	An alternative VOM emission reduction system is used
2190 2191				that which is demonstrated to have at least a 90 percent
2191 2192				control device efficiency, approved by the Agency and approved by USEPA as a SIP revision; and
2193				
2194 2195		<u>B</u> 4)	-	rinting line is equipped with a capture system and control e that provides an overall reduction in VOM emissions of at
2195			least:	
2197			• • •	
2198 2199			<u>i</u> A)	75 percent where a publication rotogravure printing line is employed; $_{35}$ or
2200				cinployed, of
2201			<u>ii</u> B)	65 percent where a packaging rotogravure printing line is
2202 2203				employed; <sub>1</sub> , or
2204			<u>iii</u> C)	60 percent where a flexographic printing line is employed;
2205				and
2206 2207	<u>2)</u>	On and	d after l	May 1, 2010, no owner or operator of a flexographic or
2208	<u> </u>			rinting line that does not print flexible packaging and that is
2209				h a capture system and control device shall operate the
2210 2211			-	ng line unless the owner or operator meets the requirements $(c)(1)(A), (c)(1)(B), or (c)(1)(C), as well as subsections$
2212				(5), and $(c)(6)$ of this Section;
2213	•	-	1 0 1	
2214 2215	<u>3)</u>			May 1, 2010, no owner or operator of a flexographic or rinting line that prints flexible packaging and that is
2215		_		a capture system and control device shall operate the
2217				ng line unless the owner or operator meets the requirements
2218 2219				s (c)(5) and (c)(6) of this Section and the capture system and e provides an overall reduction in VOM emissions of at least:
2219		<u>conno</u>		e provides an overall reduction in volvi emissions of at least.
2221		<u>A)</u>	-	cent in cases in which a subject printing line was first
2222				<u>ructed at the subject source prior to March 14, 1995 and</u>
2223 2224				e prior to January 1, 2010; or
2225				
2226		<u>B)</u>		cent when a subject printing line was first constructed at the
2227			subjec	et source prior to March 14, 1995 and utilizes a control device

2228		that was first constructed at the subject source on or after January
2229		<u>1, 2010; or</u>
2230		
2231		<u>C)</u> <u>75 percent when a subject printing line was first constructed at the</u>
2232		subject source on or after March 14, 1995 and utilizes a control
2233		device that was first constructed at the subject source prior to
2234		January 1, 2010; or
2235		
2236		<u>D)</u> 80 percent when a subject printing line was first constructed at the
2237		subject source on or after March 14, 1995 and utilizes a control
2238		device that was first constructed at the subject source on or after
2239		<u>January 1, 2010;</u>
2240		
2241	<u>4)</u>	On and after May 1, 2010, the owner or operator of a flexographic or
2242		rotogravure printing line that prints flexible packaging and non-flexible
2243		packaging on the same line and that is equipped with a control device shall
2244		be subject to the requirements of either subsection (c)(1)(D) or subsection
2245		(c)(3) of this Section, whichever is more stringent, as well as subsections
2246		(c)(5) and $(c)(6)$ of this Section;
2247		
2248	5)	The control device is equipped with the applicable monitoring equipment
2249		specified in Section 218.105(d)(2) of this Part and except as provided in
2250		Section 218.105(d)(3) of this Part, the monitoring equipment is installed,
2251		calibrated, operated and maintained according to vendor specifications at
2252		all times the control device is in use;, and
2253		±/
2254	6)	The capture system and control device are operated at all times when the
2255	,	subject printing line is in operation. The owner or operator shall
2256		demonstrate compliance with this subsection by using the applicable
2257		capture system and control device test methods and procedures specified
2258		in Section 218.105(c) through Section 218.105(f) of this Part and by
2259		complying with the recordkeeping and reporting requirements specified in
2260		Section 218.404(e) of this Part. The owner or operator of a printing line
2261		subject to the requirements in Section $218.401(c)(2)$ or $218.401(c)(1)(D)$
2262		of this Section that performed all testing necessary to demonstrate
2263		compliance with Section 218.401(c)(1)(D) prior to May 1, 2010 is not
2264		required to retest pursuant to this subsection (c)(6). The owner or operator
2265		of a printing line subject to the requirements in Section 218.401(c)(3) shall
2266		perform testing in compliance with this subsection (c)(6), even if the
2267		owner or operator already performed such testing prior to May 1, 2010,
2268		unless the following conditions are met. Nothing in this subsection $(c)(6)$ ,
2269		however, shall limit the Agency's ability to require that the owner or
2270		operator perform testing pursuant to 35 Ill. Adm. Code 201.282:
, u		operator perform tobang purbaunt to 55 m. ram. Code 201.202.

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2271			
2272		<u>A)</u>	On or after May 1, 2000, the owner or operator of the subject
2273			printing line performed all testing necessary to demonstrate
2274			compliance with Section $218.401(c)(1)(D)$ ;
2275			•
2276		<u>B)</u>	Such testing also demonstrated an overall control efficiency equal
2277			to or greater than the applicable control efficiency requirements in
2278			Section 218.401(c)(3);
2279			
2280		<u>C)</u>	The owner or operator submitted the results of such tests to the
2281		<u> </u>	Agency, and the tests were not rejected by the Agency;
2282			
2282		<u>D)</u>	The same capture system and control device subject to the tests
2283			referenced in subsection (c)(6)(A) of this Section is still being used
2285			by the subject printing line; and
2285			by the subject printing fille, and
2280		<u>E)</u>	The owner or operator complies with all recordkeeping and
2287			reporting requirements in Section 218.404(e)(1)(B).
2288			reporting requirements in Section 218.404(c)(1)(D).
2209	<u>d)</u>	No owner or	operator of subject flexographic or rotogravure printing lines that
2290	<u>u</u> )		packaging or print flexible packaging and non-flexible packaging on
2291		<u>.</u>	shall cause or allow VOM containing cleaning materials, including
2292			towels, associated with the subject flexographic or rotogravure
2293			to be kept, stored, or disposed of in any manner other than in closed
2295		-	conveyed from one location to another in any manner other than in
2295			ners or pipes, except when specifically in use.
2290		<u>Closed colitan</u>	ners of pipes, except when specificarry in use.
2297	(Sour	ce. Amended a	t 34 Ill. Reg. , effective )
2298	(Sour	ce. Amenueu a	u 54 m. Keg, enecuve)
2299	Section 218	402 Applicabi	litz
2300 2301	Section 210.	+02 Applicabl	nty
2301	0)	Except as oth	erwise provided in Section 218.401, the The limitations of Section
2302	<u>a)</u>		is <u>SubpartPart</u> apply to all flexographic and rotogravure printing
2303			ect source. Sources with flexographic and/or rotogravure printing
		5	
2305		miles are subj	ect sources if:
2306		1) 70 (.1)	
2307		,	maximum theoretical emissions of VOM from all flexographic and
2308		-	avure printing <u>linesline(s)</u> (including solvents used for cleanup
2309		•	tions associated with flexographic and rotogravure printing
2310			$\frac{ne(s)}{s}$ at the source ever exceed 90.7 Mg (100 tons) per calendar
2311		•	nd the flexographic and rotogravure printing <u>lines</u> line(s) (including
2312			its used for cleanup operations associated with flexographic and
2313		rotogr	avure printing <u>linesline(s)</u> ) at the source are not limited to less than

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2314 2315 2316 2317			90.7 Mg (100 tons) of VOM emissions per calendar year in the absence of air pollution control equipment through production or capacity limitations contained in a federally enforceable permit or a SIP revision; or
2317 2318 2319 2320 2321 2322		2)	The flexographic and rotogravure printing <u>linesline(s)</u> (including solvents used for cleanup operations associated with flexographic and rotogravure printing <u>linesline(s)</u> ) at the source have a potential to emit 22.7 Mg (25 tons) or more of VOM per year.
2322 2323 2324 2325 2326 2327 2328 2329 2330	<u>b)</u>	flexog print f where printin cleanu	mitations of Section 218.401(d) shall apply to all owners or operators of raphic or rotogravure printing lines that print flexible packaging, or that lexible packaging and non-flexible packaging on the same line, at a source the combined emissions of VOM from all flexographic and rotogravure ag lines total 6.8 kg/day (15 lbs/day) or more (including solvents used for p operations associated with flexographic and rotogravure printing lines), in sence of air pollution control equipment.
2330 2331 2332 2333 2334 2335 2336 2337	<u>c</u> b)	printin this Pa are sub or flex	achieving compliance with this Subpart, the flexographic and rotogravure ag lines are not required to meet Subpart G (Sections 218.301 or 218.302 of art). Flexographic and rotogravure printing lines exempt from this Subpart oject to Subpart G (Sections 218.301 or 218.302 of this Part). Rotogravure cographic equipment used for both roll printing and paper coating is subject Subpart.
2338 2339 2340	<u>d</u> e)		subject to the limitations of Section 218.401, a flexographic or rotogravure g line is always subject to the limitations of Section 218.401 of this Part.
2341 2342 2343 2344 2345	<u>e</u> <del>d</del> )	exemp criteria	wner or operator of any flexographic or rotogravure printing line that is of from <u>any of</u> the limitations of Section 218.401 of this Part because of the a in this Section is subject to the recordkeeping and reporting requirements and in Section 218.404(b) <u>and (f)</u> of this Part, as applicable.
2346 2347	(Sour	ce: Ame	ended at 34 Ill. Reg, effective)
2348 2349	Section 218.4	403 Co1	mpliance Schedule
2350 2351 2352 2353 2354	applicable red	quiremen	tor of a flexographic and/or rotogravure printing line shall comply with the nts of Section 218.401 and Section 218.404 of this Part in accordance with ance <u>schedulesschedule</u> specified in subsection (a), (b), (c) <del>or</del> -(d), (e), (f),
2355 2356	a)		mer or operator of a flexographic or rotogravure printing line <u>thatwhich</u> is the transmission of Section 218.401 of this Part because of the criteria

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2357 2358 2359 2360		in Section 218.402(a) 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 218.404(b) of this Part.
2361 2362 2363 2364 2365 2366	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.
2367 2368 2369 2370 2371 2372	c)	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.
2373 2374 2375 2376 2377 2378	d)	No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(c)(1)(D) 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 Section 218.404(e) of this Part.
2379 2380 2381 2382 2383 2384 2385	<u>e)</u>	No owner or operator of a flexographic or rotogravure printing line complying by means of Section 218.401(a)(2), (b)(2), or (b)(3) or complying by means of Section 218.401(c)(2), (c)(3), or (c)(4), shall operate the printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 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.
2383 2386 2387 2388 2389 2390 2391	<u>f)</u>	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, shall operate the printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 218.401(d) and Section 218.404(g) of this Part.
2392 2393 2394 2395 2396 2397 2398 2399	g) (Sour	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) of this Part shall operate the printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 218.402(b) and Section 218.404(f) of this Part. ce: Amended at 34 Ill. Reg. , effective )
	(Dour	, 011001100 at 5 + 111. 1005, 011001100

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2400				
2401	Section 218.	404 Re	cordke	eping and Reporting
2402				
2403	a)	The V	'OM co	ontent of each coating and ink and the efficiency of each capture
2404		syster	n and c	ontrol device shall be determined by the applicable test methods and
2405		proce	dures sp	pecified in Section 218.105 of this Part to establish the records
2406		requir	ed und	er this Section.
2407				
2408	b)	Any c	wner o	r operator of a printing line which is exempted from <u>any of</u> the
2409		limita	tions of	f Section 218.401 of this Part because of the criteria in Section
2410		218.4	02 <u>(a)</u> of	f this Part shall comply with the following:
2411				
2412		1)	Byac	date consistent with Section 218.106 of this Part or, for flexographic
2413			<u>or rot</u>	ogravure printing lines that print flexible packaging or that print
2414			flexib	ble packaging and non-flexible packaging on the same line, by May 1,
2415			<u>2010,</u>	the owner or operator of a flexographic <u>orand</u> rotogravure printing
2416			line to	which this subsection (b) is applicable shall certify to the Agency
2417			that th	ne flexographic and rotogravure printing line is exempt under the
2418			provis	sions of Section 218.402(a) of this Part. Such certification shall
2419			incluc	le:
2420				
2421			A)	A declaration that the flexographic and rotogravure printing line is
2422				exempt from the limitations of the criteria in Section 218.401 of
2423				this Part because of Section 218.402(a) of this Part;, and
2424				
2425			B)	Calculations which demonstrate that total maximum theoretical
2426				emissions of VOM from all flexographic and rotogravure printing
2427				lines at the source never exceed 90.7 Mg (100 tons) per calendar
2428				year before the application of capture systems and control devices.
2429				Total maximum theoretical emissions of VOM for a flexographic
2430				or rotogravure printing source is the sum of maximum theoretical
2431				emissions of VOM from each flexographic and rotogravure
2432				printing line at the source. The following equation shall be used to
2433				calculate total maximum theoretical emissions of VOM per
2434				calendar year before the application of capture systems and control
2435				devices for each flexographic and rotogravure printing line at the
2436				source:
2437				
2438				$E_p = A \times B + 1095 (C \times D \times F)$
2439				
2440				where:
2441				

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- E<sub>p</sub> = 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 instrument and/or method by which the owner or operator accurately measured or calculated the volume of each coating and 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 material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of <u>kgKg</u>/l (lbs VOM/gal);
- D = The greatest volume of cleanup material or solvent used in any 8-hour period; and
- F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.
- 2) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a flexographic and rotogravure printing line referenced in this subsection shall 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.
- 24553)On and after a date consistent with Section 218.106 of this Part, the owner2456or operator of a flexographic and rotogravure printing line exempted from2457the limitations of Section 218.401 of this Part because of the criteria in

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2458 2459 2460 2461 2462 2463			showi printii applic	on 218.402(a) of this Part shall notify the Agency of any record ng that total maximum theoretical emissions of VOM from all ng lines exceed 90.7 Mg (100 tons) in any calendar year before the sation of capture systems and control devices by sending a copy of record to the Agency within 30 days after the exceedance occurs.
2464 2465 2466 2467	c)	218.4	01 of th	r operator of a printing line subject to the limitations of Section is Part and complying by means of Section 218.401(a) of this Part with the following:
2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480		1)	218.44 upon of line fr 218.44 shall of Section 218.10 the init the read with t	late consistent with Section 218.106 of this Part, or Section 03(e), as applicable, or upon initial start-up of a new printing line, or changing the method of compliance from an existing subject printing om Section 218.401(b) or Section 218.401(c) of this Part to Section 01(a) of this Part, the owner or operator of a subject printing line certify to the Agency that the printing line will be in compliance with on 218.401(a) of this Part on and after a date consistent with Section 06 of this Part, <u>or Section 218.403(e)</u> , as applicable, or on and after itial start-up date. The owner or operator of a printing line subject to quirements in Section 218.401(a)(2)(B) shall certify in accordance his subsection (c)(1) even if the owner or operator of such line tted a certification prior to January 1, 2010. Such certification shall le:
2481 2482 2483 2484 2485			A) B)	The name and identification number of each coating and ink as applied on each printing line. The VOM content of each coating and ink as applied each day on
2486 2487 2488		2)	0	each printing line.
2488 2489 2490 2491 2492 2493 2494 2495		2)	218.40 owner 218.40 Part sl	d after a date consistent with Section 218.106 of this Part, or Section 03(e), as applicable, or on and after the initial start-up date, the or operator of a printing line subject to the limitations of Section 01 of this Part and complying by means of Section 218.401(a) of this nall collect and record all of the following information each day for oating line and maintain the information at the source for a period of years:
2496 2497 2498			A)	The name and identification number of each coating and ink as applied on each printing line.
2499 2500			B)	The VOM content of each coating and ink as applied each day on each printing line.

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2501									
2502		3)	On or	nd after a date consistent with Section 218.106 of this Part, or Section					
2502		3)							
2503				<u>.03(e)</u> , as applicable, the owner or operator of a subject printing line					
			Shan	notify the Agency in the following instances:					
2505			4.)	A manual share is a sinilation of $\Omega$ satisfy $\Omega(0, 1(x)) = \Omega(1, 1(x))$					
2506			A)	Any record showing violation of Section 218.401(a) of this Part					
2507				shall be reported by sending a copy of such record to the Agency					
2508				within 30 days following the occurrence of the violation.					
2509			<b>D</b> )						
2510			B)	At least 30 calendar days before changing the method of					
2511				compliance with Section 218.401 of this Part from Section					
2512				218.401(a) of this Part to Section 218.401(b) or (c) of this Part, the					
2513				owner or operator shall comply with all requirements of subsection					
2514				(d)(1) or $(e)(1)$ of this Section, respectively. Upon changing the					
2515				method of compliance with Section 218.401 of this Part from					
2516				Section 218.401(a) of this Part to Section 218.401(b) or (c) of this					
2517				Part, the owner or operator shall comply with all requirements of					
2518				subsection (d) or (e) of this Section, respectively.					
2519									
2520	d)	Any c	owner o	r operator of a printing line subject to the limitations of Section					
2521		218.4	218.401 of this Part and complying by means of Section 218.401(b) shall comply						
2522		with t	he follc	owing:					
2523									
2524		1)	Bya	date consistent with Section 218.106 of this Part, or Section					
2525			<u>218.4</u>	03(e), as applicable, or upon initial start-up of a new printing line, or					
2526			upon	changing the method of compliance for an existing subject printing					
2527			line fi	rom Section 218.401(a) or (c) of this Part to Section 218.401(b) of					
2528			this P	art, the owner or operator of the subject printing line shall certify to					
2529			the A	gency that the printing line will be in compliance with Section					
2530			218.4	01(b) of this Part on and after a date consistent with Section 218.106					
2531				s Part, or Section 218.403(e), as applicable, or on and after the initial					
2532			start-ı	up date. The owner or operator of a printing line subject to the					
2533				rements in Section 218.401(b)(3) shall certify in accordance with this					
2534				ction (d)(1) even if the owner or operator of such line submitted a					
2535				ication prior to January 1, 2010. Such certification shall include:					
2536									
2537			A)	The name and identification number of each printing line which					
2538				will comply by means of Section 218.401(b) of this Part.					
2539									
2540			B)	The name and identification number of each coating and ink					
2541			-,	available for use on each printing line.					
2542				······································					
2543			C)	The VOM content of each coating and ink as applied each day on					

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- D) The instrument or method by which the owner or operator will accurately measure or calculate the volume, or weight of solids, as <u>applicable</u>, of each coating and ink as applied each day on each printing line.
- 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 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 by means of Section 218.401(b) 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 <u>applicable</u>, of each coating and ink as applied each day on each printing line.
  - 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, <u>or Section</u> 218.403(e), as applicable, the owner or operator of a subject printing line shall notify the Agency in the following instances:
    - A) Any record showing violation of Section 218.401(b) of this Part shall be reported by sending a copy of such record to the Agency within 30 days 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(b) of this Part to Section 218.401(a) or 218.401(c) of this

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2587 2588 2589 2590 2591 2592 2593				subsection chang Part fi (c) of	the owner or operator shall comply with all requirements of $(c)(1)$ or $(e)(1)$ of this Section, respectively. Upon ging the method of compliance with Section 218.401 of this rom Section 218.401(b) of this Part to Section 218.401(a) or this Part, the owner or operator shall comply with all rements of subsection (c) or (e) of this Section, respectively.
2594	e)	Anvo	owner or	· operat	or of a printing line subject to the limitations of Section
2595 2596	-)	218.4	01 of th	is Part a	and complying by means of Section 218.401(c) of this Part
2590 2597		Silali	comply	with the	e following:
2598		1)	By a d	late cor	sistent with Section 218.106 of this Part, or Section
2599		-)	-		<u>s applicable</u> , or upon initial start-up of a new printing line, or
2600					g the method of compliance for an existing printing line from
2601		•	Sectio	n 218.4	101(a) or (b) of this Part to Section 218.401(c) of this Part, the
2602			owner	or ope	rator of the subject printing line shall <u>either:</u>
2603					
2604			<u>A)</u>		mperform all tests and submit to the Agency the results of all
2605					and calculations necessary to demonstrate that the subject
2606 2607					ng line will be in compliance with Section 218.401(c) of this
2607					n and after a date consistent with Section 218.106 of this or Section 218.403(e), as applicable, or on and after the initial
2609					ip date; or-
2610				Start-t	
2611			B)	If not	required to perform such testing pursuant to Section
2612			<u>~</u> ,		01(c)(6), submit a certification to the Agency that includes:
2613					
2614				<u>i)</u>	A declaration that the owner or operator is not required to
2615					perform testing pursuant to Section 218.401(c)(6);
2616					
2617				<u>ii)</u>	The dates that testing demonstrating compliance with
2618					Section 218.401(c)(3) was performed; and
2619					
2620				<u>iii)</u>	The dates that the results of such testing were submitted to
2621 2622					the Agency.
2622		2)	On an	dafter	a date consistent with Section 218.106 of this Part, or Section
2623		2)			s applicable, or on and after the initial start-up date, the
2625					rator of a printing line subject to the limitations of Section
2626					is Part and complying by means of Section 218.401(c) of this
2627					lect and record all of the following information each day for
2628					line and maintain the information at the facility for a period
2629				e years	• •
				-	

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2630				
2631			A)	Control device monitoring data.
2632			/	
2633			B)	A log of operating time for the capture system, control device,
2634			,	monitoring equipment and the associated printing line.
2635				
2636			C)	A maintenance log for the capture system, control device and
2637			- /	monitoring equipment detailing all routine and non-routine
2638				maintenance performed including dates and duration of any
2639				outages.
2640				
2641		3)	On and	d after a date consistent with Section 218.106 of this Part, or Section
2642		-)		<u>33(e), as applicable, the owner or operator of a subject printing line</u>
2643				otify the Agency in the following instances:
2644				
2645			A)	Any record showing violation of Section 218.401(c) of this Part,
2646				shall be reported by sending a copy of such record to the Agency
2647				within 30 days following the occurrence of the violation.
2648				
2649			B)	At least 30 calendar days before changing the method of
2650			,	compliance with Section 218.401 of this Part from Section
2651				218.401(c) of this Part to Section 218.401(a) or (b) of this Part, the
2652				owner or operator shall comply with all requirements of subsection
2653				(c)(1) or $(d)(1)$ of this Section, respectively. Upon changing the
2654				method of compliance with Section 218.401 of this Part from
2655				Section 218.401(c) of this Part to Section 218.401(a) or (b) of this
2656				Part, the owner or operator shall comply with all requirements of
2657				subsection (c) or (d) of this Section, respectively.
2658				() · · (-) · · · · · · · · · · · · · · · · · · ·
2659		<u>4)</u>	By Ma	y 1, 2010, or upon initial start-up of a new printing line, whichever
2660		<u></u>		, the owner or operator of a printing line subject to the requirements
2661				tion 218.401(c)(3) or (c)(4) shall submit to the Agency records
2662				enting the date the printing line was constructed at the subject
2663				and the date the control device for such printing line was
2664				icted at the subject source.
2665				
2666	<u>f)</u>	Any o	wner or	operator of a flexographic or rotogravure printing line that prints
2667				ging, or that prints flexible packaging and non-flexible packaging
2668				ne, and that is exempt from the limitations of Section 218.401(d)
2669				criteria in Section 218.402(b) shall:
2670				

x x

2671 2672 2673 2674		<u>1)</u>	By May 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:
2675 2676 2677			<u>A)</u> <u>A declaration that the source is exempt from the requirements in</u> Section 218.401(d) because of the criteria in Section 218.402(b);
2678			B) Calculations that demonstrate that combined emissions of VOM
2679			from all flexographic and rotogravure printing lines (including inks
2680			and solvents used for cleanup operations associated with such
2681			printing lines) at the source never equal or exceed 6.8 kg/day (15
2682			lbs/day), in the absence of air pollution control equipment; and
2683			
2684		<u>2)</u>	Notify the Agency in writing if the combined emissions of VOM from all
2685			flexographic and rotogravure printing lines (including inks and solvents
2686			used for cleanup operations associated with the flexographic and
2687			rotogravure lines) at the source ever equal or exceed 6.8 kg/day (15
2688			<u>lbs/day</u> ), in the absence of air pollution control equipment, within 30 days
2689			after the event occurs
2690 2691	a)	A 1937 C	where ar an arotation of a printing line which to the limitations of Section
2691	<u>g)</u>		owner or operator of a printing line subject to the limitations of Section 01(d) shall:
2692		<u>210.4</u>	
2693 2694		<u>1)</u>	By May 1, 2010, or upon initial start-up of a new printing line, whichever
2695		1/	is later, submit a certification to the Agency describing the practices and
2696			procedures that the owner or operator will follow to ensure compliance
2697			with the limitations of Section 218.401(d); and
2698			
2699		<u>2)</u>	Notify the Agency of any violation of Section 218.401(d) by sending a
2700			description of the violation and copies of records documenting such
2701			violations to the Agency within 30 days following the occurrence of the
2702			violation.
2703			
2704	<u>h)</u>	<u>All re</u>	cords required by subsections (f) and (g) of this Section shall be retained for
2705		at leas	st three years and shall be made available to the Agency upon request.
2706			
2707	(Se	ource: Am	ended at 34 Ill. Reg, effective)
2708	·		
2709	Section 21	18.405 Li	thographic Printing: Applicability
2710		<b>T</b> T (*1)	
2711	<del>a)</del>		March 15, 1996, the limitations of Section 218.406 of this Subpart apply to
2712			atset web offset lithographic printing lines (including solvents used for
2713		cieani	p operations associated with the heatset web offset lithographic printing

, ,

2714 2715 2716 2717		line(s)) at a source subject to the requirements of this Subpart. All sources v heatset web offset lithographic printing lines are sources subject to the requirements of this Subpart unless:					
2718 2719 2720 2721 2722 2723		<del>1)</del>	lithog associ source	maximum theoretical emissions of VOM from all heatset web offset raphic printing lines (including solvents used for cleanup operations ated with the heatset web offset lithographic printing line(s)) at the e never exceed 90.7 Mg (100 tons) per calendar year in the absence pollution control equipment; or			
2724 2725 2726 2727 2728 2729 2730		<del>2)</del>	lithog limit p emissi Mg (1	erally enforceable permit or SIP revision for all heatset web offset raphic printing line(s) at a source requires the owner or operator to production or capacity of these printing line(s) to reduce total VOM ions from all heatset web offset lithographic printing line(s) to 90.7 00 tons) per calendar year or less in the absence of air pollution of equipment.			
2731 2732 2733 2734 2735	<del>b)</del>	exemp criteria	t from t a in sub	operator of any heatset web offset lithographic printing line that is the limitations in Section 218.406 of this Subpart because of the section (a) of this Section shall be subject to the recordkeeping and arements in Section 218.406(b)(1) of this Subpart.			
2736 2737 2738 2739	<u>a</u> e)	EveryOn and after March 15, 1996, every owner or operator of lithographic printing <u>linesline(s)</u> is subject to the recordkeeping and reporting requirements in Section 218.411 of this Subpart.					
2740 2741 2742	<u>b</u> <del>d</del> )	Prior to May 1, 2010, On and after March 15, 1996, Sections 218.407 through 218.410 of this Subpart shall apply to:					
2743 2744 2745		1)		vners or operators of heatset web offset lithographic printing ne(s) unless:			
2746 2747 2748 2749 2750 2751 2752 2753 2754 2755			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, the owner or operator shall use the calculations set forth in Section 218.411(a)(1)(C)218.406(b)(1)(A)(ii) of this Subpart; or			
2756			B)	Federally enforceable permit conditions or SIP revision for all			

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0757			heatest make affect lithe analysis minting linealing(a) at the same
2757 2758			heatset web offset lithographic printing <u>linesline(s)</u> at the source requires the owner or operator to limit production or capacity of
2759			these printing <u>lines</u> line(s) to total VOM emissions of 90.7 Mg/yr
2760			(100 TPY) or less, before the application of capture systems and
2761			control devices;
2762			
2763		2)	All owners or operators of heatset web offset, non-heatset web offset, or
2764		1	sheet fed offset lithographic printing linesline(s), unless the combined
2765			emissions of VOM from all lithographic printing <u>linesline(s)</u> at the source
2766			(including solvents used for cleanup operations associated with the
2767			lithographic printing linesline(s)) never exceed 45.5 kg/day (100 lbs/day),
2768			as determined in accordance with Section 218.411(a)(1)(B), before the
2769			application of capture systems and control devices.
2770			
2771	<u>c)</u>	<u>On ar</u>	<u>nd after May 1, 2010:</u>
2772		4 \	
2773		<u>1)</u>	The requirements in Section 218.407(a)(1)(B) through (a)(1)(E) and $212.407(a)$
2774			218.407(b) and all applicable provisions in Sections 218.409 through
2775			218.411 of this Subpart shall apply to all owners or operators of heatset
2776 2777			web offset lithographic printing lines, if the combined emissions of VOM
2777			from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) ever
2779			exceed 45.5 kg/day (100 lbs/day), calculated in accordance with Section
2780			218.411(b)(2)(B), before the application of capture systems and control
2781			devices;
2782			<u> </u>
2783		<u>2)</u>	The requirements in Section $218.407(a)(1)(A)$ and $218.407(a)(2)$
2784		yda	through(a)(5) and all applicable provisions in Sections 218.409 through
2785			218.411 of this Subpart shall apply to all owners or operators of
2786			lithographic printing lines if the combined emissions of VOM from all
2787			lithographic printing lines at the source (including solvents used for
2788			cleanup operations associated with the lithographic printing lines) ever
2789			equal or exceed 6.8 kg/day (15 lbs/day), calculated in accordance with
2790			Section 218.411(b)(1)(B), before the application of capture systems and
2791			<u>control devices;</u>
2792		•	
2793		<u>3)</u>	Notwithstanding subsection (c)(2) of this Section, at sources where the
2794			combined emissions of VOM from all lithographic printing lines at the
2795			source (including solvents used for cleanup operations associated with the
2796 2797			lithographic printing lines) equal or exceed 6.8 kg/day (15 lbs/day) but do
2797 2798			not exceed 45.5 kg/day (100 lbs/day), calculated in accordance with Section 218.411(b)(1)(B), before the application of capture systems and
2798			control devices, the following exclusions shall apply unless the owner or
			control devices, the following exclusions shall apply unless the owner of

2800		opera	ator of the source certifies pursuant to Section 218.411(g)(1)(B) that
2801		the so	burce will not make use of any such exclusions:
2802			
2803		<u>A)</u>	The requirements of Section $218.407(a)(1)(A)$ , $218.407(a)(2)$ , and
2804			218.407(a)(3) of this Subpart shall not apply to lithographic
2805			printing lines with a total fountain solution reservoir of less than
2806			3.8 liters (1 gallon);
2807			
2808		<u>B)</u>	The requirements of Section 218.407(a)(3) of this Subpart shall not
2809			apply to sheet-fed offset lithographic printing lines with maximum
2810			sheet size of 11x17 inches or smaller;
2811			
2812		<u>C)</u>	The requirements of Section 218.407(a)(4) of this Subpart shall not
2813			apply to up to a total of 416.3 liters (110 gallons) per year of
2814			cleaning materials used on all lithographic printing lines at the
2815			source;
2816			
2817		<u>D)</u>	The requirements of Section 218.407(a)(4)(A)(i) shall not apply to
2818			lithographic printing lines at the source. Instead, the requirements
2819			of Section 218.407(a)(4)(A)(ii) shall apply to such lines.
2820			
2821	<u>d</u> e)	If a lithograp	hic printing line at a source is or becomes subject to one or more of
2822			ns in <u>Section Sections 218.406 or 218.407</u> of this Subpart, the
2823		lithographic	printing <u>linesline(s)</u> at the source are always subject to the applicable
2824		provisions of	f this Subpart.
2825			
2826	(Sour	ce: Amended	at 34 Ill. Reg, effective)
2827			
2828	Section 218.4	406 Provision	s Applying to Heatset Web Offset Lithographic Printing Prior to
2829	March 15, 19	996 <u>(Repealed</u>	)
2830			
2831	<del>a)</del>	Emission Sta	ndards and Limitations. No owner or operator of a heatset web
2832			g line at a source that meets or exceeds the applicability levels in
2833		Section 218.	405(a) of this Subpart may cause or allow the operation of such
2834		heatset web o	offset printing line(s) unless the owner or operator meets the
2835		requirements	in subsections (a)(1) or (a)(2) of this Section and the requirements in
2836		subsections (	a)(3) and (a)(4) of this Section. The owner or operator shall
2837			compliance with this Section by using the applicable test methods
2838		and procedur	es specified in Section 218.105(a), (d), and (f) of this Part and by
2839		complying w	ith the recordkeeping and reporting requirements specified in
2840			) of this Section.
2841		,	
2842		1) An af	terburner system is installed and operated that reduces 90 percent of

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2843 2844 2845			<del>the VOM em</del> <del>exhaust; or</del>	issions (excluding methane and ethane) from the dryer
2846 2847 2848 2849 2850		<del>2)</del>	VOM and a c removes at le	solution contains no more than 8 percent, by weight, of condensation recovery system is installed and operated that ast 75 percent of the non-isopropyl alcohol organic materials or exhaust; and
2850 2851 2852 2853 2854 2855 2856		<del>3)</del>	specified in S equipment is	evice is equipped with the applicable monitoring equipment ection 218.105(d)(2) of this Part and the monitoring installed, calibrated, operated and maintained according to 's specifications at all times when the control device is in use;
2850 2857 2858 2859		4)	The control d operation.	evice is operated at all times when the printing line is in
2860 2861 2862 2863	<del>b)</del>	<del>ink an</del> test m	d the efficiency ethods and pro	Reporting. The VOM content of each fountain solution and y of each control device shall be determined by the applicable cedures specified in Section 218.105 of this Part to establish under this subsection.
2864 2865 2866 2867 2868		<del>1)</del>	from the limit	r operator of a lithographic printing line which is exempted tations of subsection (a) of this Section because of the criteria of this Subpart shall comply with the following:
2869 2870 2871 2872 2873 2874			operat subsec Agenc exemp	late consistent with Section 218.106 of this Part, the owner or cor of a heatset web offset lithographic printing line to which etion (b)(1) of this Section is applicable shall certify to the ey that the heatset web offset lithographic printing line is of under the provisions of Section 218.405(a) of this Subpart. certification shall include:
2875 2876 2877 2878 2879 2880			i)	A declaration that the heatset web offset lithographic printing line is exempt from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart; and
2880 2881 2882 2883 2884 2885			<del>ii)</del>	Calculations which demonstrate that total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines at the source never exceed 90.7 Mg (100 tons) per calendar year before the application of air pollution control equipment. Total maximum theoretical

х х 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<sub>p</sub> = 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 canpotentially be applied each year on the printing $line in units of <math>\ell/yr$  (gal/yr). The instrument or method by which the owner or operator accurately measured or 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);

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- 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 instrument and/or method by which the owner or operator accurately measured or 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;
- $F = Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/<math>\ell$  (lb/gal) of such material;
- G = The greatest volume of cleanup material or solvent used in any 8-hour period; and
- H = The highest fraction of cleanup material or solvent which 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 foil, plastic, or other impervious substrates, R = 1.0.
- B) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a heatset web offset lithographic printing line to which subsection (b)(1) of this Section is applicable shall 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:
  - i) The name and identification of each fountain solution and ink as applied on each printing line; and
  - ii) The VOM content and the volume of each fountain solution and ink as applied each year on each printing line.
- C) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a source exempted from the limitations of subsection (a) of this Section because of the criteria in Section 218.405(a) of this Subpart shall notify the Agency of any record

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2916 2917 2918 2919 2920 2921		<del>all he</del> (100 <del>contr</del>	ring that total maximum theoretical emissions of VOM from eatset web offset lithographic printing lines exceed 90.7 Mg tons) in any calendar year in the absence of air pollution ol equipment by sending a copy of such record to the Agency in 30 days after the exceedence occurs.
2921 2922 2923 2924 2925	SI	ubsection (a	or operator of a printing line subject to the limitations of a) of this Section and complying by means of subsection (a)(1) on shall comply with the following:
2926 2927 2928 2929 2930 2931 2932 2933	А	initia of co to (a) the re that t (a)(1)	date consistent with Section 218.106 of this Part, or upon al start-up of a new printing line, or upon changing the method mpliance for an existing printing line from subsection (a)(2) (1) of this Section, perform all tests and submit to the Agency esults of all tests and calculations necessary to demonstrate the subject printing line will be in compliance with subsection ) of this Section on and after a date consistent with Section H06 of this Part, or on and after the initial start-up date;
2934 2935 2936 2937 2938 2939	B	on-ar follo	nd after a date consistent with Section 218.106 of this Part, or ad after the initial start up date, collect and record the wing information each day for each printing line and maintain aformation at the source for a period of three years:
2940 2941 2942		<del>i)</del> ii)	Control device monitoring data; A log of operating time for the control device, monitoring
2943 2944 2945 2946 2947		iii)	equipment and the associated printing line; and A maintenance log for the control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages;
2948 2949 2950 2951	e	·	nd after a date consistent with Section 218.106 of this Part, y the Agency in the following instances:
2952 2953 2954 2955		<del>i)</del>	Any violation of subsection (a)(1) of this Section shall be reported to the Agency, in writing, within 30 days following the occurrence of the violation;
2956 2957 2958		<del>ii)</del>	Any record showing a violation of subsection (a)(1) of this Section shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of

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2959			the violation; and
2960			
2961		iii)	At least 30 calendar days before changing the method of
2962		)	compliance with subsection (a) of this Section from
2963			subsection (a)(1) to (a)(2) of this Section, the owner or
2964			operator shall comply with all requirements of subsection
2965			(b)(3)(A) of this Section. Upon changing the method of
2966			compliance with subsection (a) of this Section from
2967			subsection (a)(1) to (a)(2) of this Section, the owner or
2968			operator shall comply with all requirements of subsection
2969			(b)(3) of this Section.
2970			
2971	<del>3)</del>	Anv owner	or operator of a printing line subject to the limitations of
2972	2)		(a) of this Section and complying by means of subsection (a)
2973		of this Sect	
2974			
2975		A) By a	a date consistent with Section 218.106 of this Part, or upon
2976		· ·	al start up of a new printing line, or upon changing the meth
2977			ompliance for an existing printing line from subsection (a)(1
2978			a)(2) of this Section, perform all tests and submit to the Ager
2979		•	the USEPA the results of all tests and calculations necessary
2980			constrate that the subject printing line will be in compliance
2981			subsection (a)(2) of this Section on and after a date consistent
2982			Section 218.106 of this Part, or on and after the initial start
2983		date	·
2984			,
2985		B) On a	and after a date consistent with Section 218.106 of this Part,
2986		,	and after the initial start up date, collect and record the
2987			owing information each day for each printing line and maint
2988			information at the source for a period of three years:
2989			· · · · · · · · · · · · · · · · · · ·
2990		i)	The VOM content of the fountain solution used each day
2991		,	on each printing line;
2992			
2993		ii)	A log of operating time for the control device and the
2994		/	associated printing line; and
2995			
2996		iii)	A maintenance log for the control device detailing all
2997		,	routine and non-routine maintenance performed includin
2998			dates and duration of any outages;
2999			
3000		C) On a	and after a date consistent with Section 218.106 of this Part,

3002				
3003			i)	Any violation of subsection (a)(2) shall be reported to the
3004			,	Agency, in writing, within 30 days following the
3005				occurrence of the violation;
3006				,
3007			ii)	Any record showing a violation of subsection (a)(2) of this
3008				Section shall be reported by sending a copy of such record
3009				to the Agency within 30 days following the occurrence of
3010				the violation; and
3011				
3012			iii)	At least 30 calendar days before changing the method of
3012			111)	compliance with subsection (a) of this Section from
3014				subsection (a)(2) to (a)(1) of this Section, the owner or
3015				operator shall comply with all requirements of subsection
3016				(b)(2)(A) of this Section. Upon changing the method of
3017				compliance with subsection (a) of this Section from
3018				subsection (a)(2) to (a)(1) of this Section, the owner or
3019				operator shall comply with all requirements of subsection
3020				(b)(2) of this Section.
3020				(0)(2) or any section.
3021		Comp	lionoa Schadula	Every experies or exercises of a besteet web offect
3022	<del>c)</del>	-		e. Every owner or operator of a heatset web offset
3023		-		line shall comply with the applicable requirements of
3024				b) of this Section in accordance with the applicable $(a)(2)$ of this
		Sectio		specified in subsections (c)(1), (c)(2), or (c)(3) of this
3026		Sectio.	<del>n.</del>	
3027		1)	λτ	
3028		<del>1)</del>		operator of a heatset web offset lithographic printing line
3029				npt from the limitations of subsection (a) of this Section
3030				eriteria in Section 218.405(a) of this Subpart shall operate
3031				ine on or after a date consistent with Section 218.106 of this
3032				e owner or operator has complied with, and continues to
3033			comply with,	Sections 218.405(a) and (b)(1) of this Subpart.
3034			NT	
3035		<del>2)</del>		operator of a heatset web offset lithographic printing line
3036			complying by	means of subsection (a)(1) of this Section shall operate said
3037				on or after a date consistent with Section 218.106 of this Part,
3038				ner or operator has complied with, and continues to comply
3039			with, subsection	ons (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.
3040				
3041		<del>3)</del>		operator of a heatset web offset lithographic printing line
3042				means of subsection (a)(2) of this Section shall operate said
3043				m or after a date consistent with Section 218.106 of this Part,
3044			unless the own	ner or operator has complied with, and continues to comply

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#### 3045 with, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section. 3046 (Source: Repealed at 34 Ill. Reg. \_\_\_\_, effective \_\_\_\_\_) 3047 3048 3049 Section 218.407 Emission Limitations and Control Requirements for Lithographic 3050 Printing Lines On and After March 15, 1996 3051 3052 a) NoOn and after March 15, 1996, no owner or operator of lithographic printing 3053 linesline(s) subject to the requirements of this Subpart shall: 3054 3055 1) Cause or allow the operation of any heatset web offset lithographic 3056 printing line unless: 3057 3058 A) The total VOM content in the as-applied fountain solution meets 3059 one of the following conditions: 3060 3061 i) 1.6 percent or less, by weightvolume; 3062 3063 ii) 3 percent or less, by weight<del>volume</del>, and the temperature of 3064 the fountain solution is maintained below $15.6^{\circ}$ C (60° F), measured at the reservoir or the fountain tray; or 3065 3066 3067 iii) 5 percent or less, by weightvolume, and the as-applied fountain solution contains no alcohol; 3068 3069 3070 B) The air pressure in the dryer is maintained lower than the air pressure of the press room, such that air flow through all openings 3071 3072 in the dryer, other than the exhaust, is into the dryer at all times 3073 when the printing line is operating; 3074 3075 C) An afterburner is installed and operated so that VOM emissions 3076 (excluding methane and ethane) from the press dryer exhaust(s) are 3077 reduced as follows 3078 3079 Prior to May 1, 2010, by 90 percent, by weight, or to a <u>i)</u> 3080 maximum afterburner exhaust outlet concentration of 20 3081 ppmv (as carbon); and 3082 3083 ii) On and after May 1, 2010, by at least 90 percent, by 3084 weight, for afterburners first constructed at the source prior to January 1, 2010; by at least 95 percent, by weight, for 3085 3086 afterburners first constructed at the source on or after

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3087 3088 3089		January 1, 2010; or to a maximum afterburner exhaust outlet concentration of 20 ppmv (as carbon);
3090 3091 3092 3093 3094 3095 3096 3097	D)	The afterburner <u>complies with all monitoring provisions specified</u> <u>in Section 218.410(c) of this Subpartis equipped with the</u> <u>applicable monitoring equipment specified in Section</u> 218.105(d)(2) of this Part and the monitoring equipment is <u>installed</u> , calibrated, operated, and maintained according to manufacturer's specifications at all times when the afterburner is in use; and
3098 3099 3100 3101 3102	E)	The afterburner is operated at all times when the printing line is in operation, except the afterburner may be shut down between November 1 and April 1 as provided in Section 218.107 of this Part;
3103       2)         3104       3105         3106       3107	printi 5 pero	e or allow the operation of any non-heatset web offset lithographic ng line unless the VOM content of the as-applied fountain solution is cent or less, by <u>weightvolume</u> , and the as-applied fountain solution ins no alcohol;
3108 3) 3109 3110		e or allow the operation of any sheet-fed offset lithographic printing nless:
3111 3112 3113	A)	The VOM content of the as-applied fountain solution is 5 percent or less, by <u>weightvolume</u> ; or
3114 3115 3116 3117 3118	B)	The VOM content of the as-applied fountain solution is 8.5 percent or less, by <u>weightvolume</u> , and the temperature of the fountain solution is maintained below 15.6° C ( $60^{\circ}$ F), measured at the reservoir or the fountain tray;
3119 4) 3120 3121	Cause line u	e or allow the use of a cleaning solution on any lithographic printing nless:
3122 3123	A)	The VOM content of the as-used cleaning solution is less than or equal to:
3124 3125 3126		$\underline{i}$ 30 percent, by weight; or
3127 3128 3129		ii) On and after May 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 218.405(c)(3) and do not certify pursuant to Section

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3130 3131 3132 3133			218.411(g)(1)(B) that the source will not make use of any of the exclusions in Section 218.405(c)(3), 70 percent, by weight; or
3133 3134 3135 3136		-	OM composite partial vapor pressure of the as-used cleaning on is less than 10 mmHg at 20° C (68° F);
3137 3138 3139 3140	5)	cleaning tow	w VOM containing cleaning materials, including used els, associated with any lithographic printing line to be kept, posed of in any manner other than in closed containers, except cally in use.
3141 3142 3143 3144 3145	the red		r of a heatset web offset lithographic printing line subject to subsection $(a)(1)(C)$ of this Section may use a control device rner, if:
3146 3147 3148	1)		levice reduces VOM emissions from the press dryer ust(s) as follows
3149 3150 3151 3152		maxir	to May 1, 2010, by at least 90 percent, by weight, or to a num control device exhaust outlet concentration of 20 ppmv rbon); and
3153 3154 3155			<u>d after May 1, 2010:</u>
3156 3157		<u>i)</u>	By at least 90 percent, by weight, for control devices first constructed at the source prior to January 1, 2010;
3158 3159 3160		<u>ii)</u>	By at least 95 percent, by weight, for control devices first constructed at the source on or after January 1, 2010; or
3161 3162 3163		<u>iii)</u>	To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
3164 3165 3166 2167	2)	monitoring de	operator submits a plan to the Agency detailing appropriate evices, test methods, recordkeeping requirements, and ameters for the control device; and
3167 3168 3169 3170 3171	3)	in accordance	e control device with testing, monitoring, and recordkeeping with this plan is approved by the Agency and USEPA as preceable permit conditions.
3172	(Source: Ame	ended at 34 Ill.	Reg, effective)

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3173			
3174	Section 218.4	08 Co	mpliance Schedule for Lithographic Printing On and After March 15,
3175	1996 (Repeal		
3176			
3177	<del>a)</del>	Everv	owner or operator of a lithographic printing line subject to one or more of
3178	/		ntrol requirements of Section 218.407 of this Subpart shall comply with the
3179			able requirements of Sections 218.407 through 218.411 of this Subpart on
3180		<b>1 1</b>	ter March 15, 1996, or upon initial start-up, whichever is later.
3181		und un	tor march 15, 1990, or upon mitial start up, whichever is fact.
3182	<del>b)</del>	No ou	wher or operator of a lithographic printing line which is exempt from the
3183	0)		tions of Section 218.407 of this Subpart because of the criteria in Section
3184			$\frac{1}{2}$ (d) of this Subpart, shall operate said printing line on or after March 15,
3185			unless the owner or operator has complied with, and continues to comply
3186			Sections 218.405(d) and 218.411(a) of this Subpart.
3180		vv 1 tili, i	
3188	(Sourc	e Ren	ealed at 34 Ill. Reg, effective)
3189	(boure	o. Rop	ealed at 54 III. Reg, encenve)
3190	Section 218 4	.00 Tes	sting for Lithographic Printing <del>On and After March 15, 1996</del>
3191	Section 210.4		sing for Endographic Frinting On and Arter March 15, 1990
3192	a)	Testin	g to demonstrate compliance with the requirements of Section 218.407 of
3192	a)		abpart shall be conducted by the owner or operator within 90 days after a
3193			st by the Agency, or as otherwise specified in this Subpart. Such testing
3195		-	be conducted at the expense of the owner or operator and the owner or
3195			or shall notify the Agency in writing 30 days in advance of conducting such
3190			g to allow the Agency to be present during such testing.
		testing	g to allow the Agency to be present during such testing.
3198	1-)	Them	othede and procedures of Section 218 105(d) and (D shall be used for
3199	b)		te demonstrate compliance with the requirements of Section
3200		-	g to demonstrate compliance with the requirements of Section $D^{2}(x)(1)(C)$ or $(h)(1)$ of this Submart, as follows:
3201		210.40	07(a)(1)(C) or (b)(1) of this Subpart, as follows:
3202		1)	To colort the compling sites Mathed 1 on 1A or engeneration 40 CEP 60
3203		1)	To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60,
3204			Appendix A, incorporated by reference at Section 218.112 of this Part.
3205			The sampling sites for determining efficiency in reducing VOM from the
3206			dryer exhaust shall be located between the dryer exhaust and the control
3207			device inlet, and between the outlet of the control device and the exhaust
3208			to the atmosphere;
3209		•	
3210		2)	To determine the volumetric flow rate of the exhaust stream, Method 2,
3211			2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by
3212			reference at Section 218.112 of this Part;
3213		•	
3214		3)	To determine the VOM concentration of the exhaust stream entering and
3215			exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60,

× × 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:

- 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 shall be conducted using either 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, 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) Notwithstanding the criteria or requirements in Method 25 <u>thatwhich</u> 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);
- 5) During testing, the printing <u>lines</u>line(s) 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, shall be used to demonstrate 100 percent emissions capture efficiency for the dryer in accordance with Section 218.407(a)(1)(B) of this Subpart.
- 3256c)Testing to demonstrate compliance with the VOM content limitations in Section3257218.407(a)(1)(A), (a)(2), (a)(3) and (a)(4)(A) of this Subpart, and to determine the3258VOM content of fountain solutions, fountain solution additives, cleaning solvents,

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3259 3260 3261 3262 3263		218.4	ing solutions, and inks (pursuant to the requirements of Section $11(a)(1)(B)$ , (b)(1)(B), or (b)(2)(B) of this Subpart, as applicable, shall be acted upon request of the Agency or as otherwise specified in this Subpart, as vs:
3265 3264 3265 3266 3267 3268		1)	The applicable test methods and procedures specified in Section 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, shall be used to demonstrate compliance; or
3269 3270 3271 3272 3273		2)	The manufacturer's specifications for VOM content for fountain solution additives, cleaning solvents, and inks may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.
3274 3275 3276 3277 3278	d)	of this approv	ng to demonstrate compliance with the requirements of Section 218.407(b) s Subpart shall be conducted as set forth in the owner or operator's plan ved by the Agency and USEPA as federally enforceable permit conditions ant to Section 218.407(b) of this Subpart.
3279 3280 3281 3282 3283	e)	solver condu	ng to determine the VOM composite partial vapor pressure of cleaning hts, cleaning solvent concentrates, and as-used cleaning solutions shall be letted in accordance with the applicable methods and procedures specified in on 218.110 of this Part.
3284 3285 3286 3287			ended at 34 Ill. Reg, effective)
3288 3289	a)		ain Solution Temperature.
3290	a)		
3291 3292		1)	The owner or operator of any lithographic printing <u>linesline(s)</u> relying on the temperature of the fountain solution to demonstrate compliance shall
3292 3293			install, maintain, and continuously operate a temperature monitor of the
3294			fountain solution in the reservoir or fountain tray, as applicable.
3295			
3296		2)	The temperature monitor must be capable of reading with an accuracy of
3297			1° C or 2° C, and must be attached to an automatic, continuous recording
3298 3299			device such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated and maintained in accordance with
3300			the manufacturer's specifications. If the automatic, continuous recording
3301			device malfunctions, the owner or operator shall record the temperature of

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3302 3303 3304 3305		aut		n at least once every two operating hours. The ous recording device shall be repaired or replaced as
3306 3307 3308 3309	b)		<u>sline(s)</u> subject	ontent. The owner or operator of any lithographic to Section 218.407(a)(1)(A), (a)(2) or (a)(3) of this
3310 3311		1) For	a fountain solut	ion to which VOM is not added automatically:
3312 3313 3314		A)		cords of the VOM content of the fountain solution in with Section 218.411( <u>e</u> e)(2)(C); or
3315 3316 3317 3318 3319 3320		B)	tray or reser solution is p batch of fou shall determ	ble of the as-applied fountain solution from the fountain voir, as applicable, each time a fresh batch of fountain repared or each time VOM is added to an existing ntain solution in the fountain tray or reservoir, and line compliance with the VOM content limitation of the bountain solution by using one of the following options:
3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331			i) With or di refra stand solut again The temp of fo	a refractometer or hydrometer with a visual, analog, gital readout and with an accuracy of 0.5 percent. The ectometer or hydrometer must be calibrated with a lard solution for the type of VOM used in the fountain tion, in accordance with manufacturer's specifications, nst measurements performed to determine compliance. refractometer or hydrometer must be corrected for perature at least once per 8-hour shift or once per batch buntain solution prepared or modified, whichever is er; or
3332 3333 3334 3335 3336 3337 3338 3339 3340 3341 3342 3343 3343			refra comp and a may hydr diffe 95 po VON foun the in	a conductivity meter if it is demonstrated that a ctometer and hydrometer cannot distinguish between pliant and noncompliant fountain solution for the type amount of VOM in the fountain solution. A source use a conductivity meter if it demonstrates that both ometers and refractometers fail to provide significantly rent measurements for standard solutions containing ercent, 100 percent and 105 percent of the applicable A content limit. The conductivity meter reading for the tain solution must be referenced to the conductivity of ncoming water. A standard solution shall be used to the tain the conductivity meter for the type of VOM used

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3345			in the fountain solution, in accordance with manufacturer's
3346			specifications;
3347			
3348		2)	For fountain solutions to which VOM is added at the source with
3349			automatic feed equipment, determine the VOM content of the as-applied
3350			fountain solution based on the setting of the automatic feed equipment
3351			which makes additions of VOM up to a pre-set level. Records must be
3352			retained of the VOM content of the fountain solution in accordance with
3353			Section 218.411(ee)(2)(D) of this Subpart. The equipment used to make
3354			automatic additions must be installed, calibrated, operated and maintained
3355			in accordance with manufacturer's specifications.
3356	``		
3357	c)		burners For Heatset Web Offset Lithographic Printing <u>LinesLine(s)</u> .
3358			afterburner is used to demonstrate compliance, the owner or operator of a
3359			et web offset lithographic printing line subject to Section 218.407(a)(1)(C)
3360		of this	s Subpart shall:
3361 3362		1)	Install calibrate maintain and energies temperature manitoring
3363		1)	Install, calibrate, maintain, and operate temperature monitoring $devices devices (a)$ with an accuracy of $2^\circ C$ or $5^\circ E$ on the after human in
3363 3364			<u>devices</u> $\frac{device(s)}{device(s)}$ with an accuracy of 3° C or 5° F on the afterburner in accordance with Section 218.105(d)(2) of this Part and in accordance with
3365			the manufacturer's specifications. Monitoring shall be performed at all
3366			times when the afterburner is operating; and
3367			times when the arterburner is operating, and
3368		2)	Install, calibrate, operate and maintain, in accordance with manufacturer's
3369		_)	specifications, a continuous recorder on the temperature monitoring
3370			<u>devices</u> device(s), such as a strip chart, recorder or computer, with at least
3371			the same accuracy as the temperature monitor.
3372			<b>y</b> 1
3373	d)	Other	Control Devices for Heatset Web Offset Lithographic Printing
3374	,		Line(s).
3375		If a co	ontrol device other than an afterburner is used to demonstrate compliance,
3376		the ov	wner or operator of a heatset web offset lithographic printing line subject to
3377		this S	ubpart shall install, maintain, calibrate and operate such monitoring
3378			ment as set forth in the owner or operator's plan approved by the Agency
3379		and U	JSEPA pursuant to Section 218.407(b) of this Subpart.
3380			
3381	e)	Clean	ing Solution
3382			
3383		1)	The owner or operator of any lithographic printing line relying on the
3384			VOM content of the cleaning solution to comply with Section
3385			218.407(a)(4)(A) of this Subpart must:
3386			A) Foundation of the term of the term of the term
3387			A) For cleaning solutions that are prepared at the source with

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3388	equipment that automatically mixes cleaning solvent and water (or
3389	other non-VOM):
3390	
3391	i) Install, operate, maintain, and calibrate the automatic feed
3392	equipment in accordance with manufacturer's specifications
3393	to regulate the volume of each of the cleaning solvent and
3394	water (or other non-VOM), as mixed; and
3395	
3396	ii) Pre-set the automatic feed equipment so that the
3397	consumption rates of the cleaning solvent and water (or
3398	other non-VOM), as applied, comply with Section
3399	218.407(a)(4)(A) of this Subpart;
3400	
3401	B) For cleaning solutions that are not prepared at the source with
3402	automatic feed equipment, keep records of the usage of cleaning
3403	solvent and water (or other non-VOM) as set forth in Section
3404	218.411( <u>f</u> d)(2) of this Subpart.
3405	
3406	2) The owner or operator of any lithographic printing line relying on the
3407	vapor pressure of the cleaning solution to comply with Section
3408	218.407(a)(4)(B) of this Subpart must keep records for such cleaning
3409	solutions used on any such <u>linesline(s)</u> as set forth in Section
3410	218.411( <u>f</u> d)(2)(C) of this Subpart.
3411	(Course, Amondod et 24 III Dec. offective
3412 3413	(Source: Amended at 34 Ill. Reg, effective)
3413 3414	Section 218.411 Recordkeeping and Reporting for Lithographic Printing
3414	Section 218.411 Record Reeping and Reporting for Lithographic Finning
3416	a) Exempt units prior to May 1, 2010. An owner or operator of lithographic printing
3417	<u>linesline(s)</u> exempt from the limitations of Section 218.407 of this Subpart prior
3418	to May 1, 2010, because of the criteria in Section 218.405(bd) of this Subpart,
3419	shall comply with the following:
3420	
3421	1) <u>UponBy March 15, 1996, upon initial start-up of a new lithographic</u>
3422	printing line, and upon modification of a lithographic printing line, submit
3423	a certification to the Agency that includes:
3424	
3425	A) A declaration that the source is exempt from the control
3426	requirements in Section 218.407 of this Part because of the criteria
3427	in Section 218.405(bd) of this Subpart;
3428	
3429	B) Calculations <u>that which</u> demonstrate that combined emissions of
3430	VOM from all lithographic printing lines (including inks, fountain

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3431 3432 3433 3434 3435		the lith kg/day	ns, and solvents used for cleanup operations associated with ographic printing lines) at the source never exceed 45.5 (100 lbs/day) before the use of capture systems and control s, as follows:
3436 3437 3438 3439 3440 3441 3442 3443		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;
3444 3445 3446 3447 3448		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;
3448 3449 3450 3451 3452 3453 3454 3455 3456 3455 3456 3457 3458 3459 3460 3461 3462			To determine VOM emissions from inks used on lithographic printing <u>linesline(s)</u> 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 <u>linesline(s)</u> ; and
3463 3464 3465 3466			To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing <u>linesline(s)</u> at the source, no retention factor is used;
3467 3468 3469 3470 3471 3472 3473	C)	permit of VOM (includ: heatset Mg (10	a declaration that the source, through federally enforceable conditions, has limited its maximum theoretical emissions <i>M</i> from all heatset web offset lithographic printing lines ing solvents used for cleanup operations associated with web offset printing lines) at the source to no more than 90.7 00 tons) per calendar year before the application of capture s and control devices or calculations which demonstrate that

3474 3475 3476 3477 3478 3479 3480 3481 3482 3483 3484 3483 3484 3485 3486 3487	the source's total maximum theoretical emissions of VOM do not exceed 90.7 Mg/yr (100 TPY). 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: To determine the source's total maximum theoretical emissions for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 218.406(b)(1)(A)(ii) of this Subpart; and $\underline{F_p = (R \times A \times B) + (C \times D) + 1095 (F \times G \times H)}$
3489 3490	where:
	$\underline{E}_{p} \equiv \underline{\text{Total maximum theoretical emissions of VOM from one heatset}}$ web offset printing line in units of kg/yr (lb/yr);
	<u>A</u> = <u>Weight of VOM per volume of solids of ink with the highest VOM</u> <u>content as applied each year on the printing line in units of kg/l</u> <u>(lb/gal) of solids;</u>
	$\underline{B} = \underline{\text{Total volume of solids for all inks that can potentially be applied}} \\ \underline{\text{each year on the printing line in units of 1/yr (gal/yr)}. The method} \\ \underline{\text{by which the owner or operator accurately calculated the volume of}} \\ \underline{\text{each ink as applied and the amount that can potentially be applied}} \\ \underline{\text{each year on the printing line shall be described in the certification}} \\ \underline{\text{to the Agency;}} \\$
	$\underline{C} = \frac{\text{Weight of VOM per volume of fountain solution with the highest}}{\text{VOM content as applied each year on the printing line in units of kg/l (lb/gal);}}$
	$D \equiv$ The total volume of fountain solution that can potentially be used each year on the printing line in units of 1/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;

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 $\underline{F} \equiv \underline{Weight of VOM per volume of material for the cleanup material or}$ 

				solvent with the highest VOM content as used each year on the printing line in units of kg/l (lb/gal) of such material;
			<u>G</u> =	The greatest volume of cleanup material or solvent used in any 8- hour period;
			<u>H</u> =	The highest fraction of cleanup material or solvent that is not recycled or recovered for offsite disposal during any 8-hour period;
3491			<u>R</u> =	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, $R = 1.0$ ;
3492 3493 3494 3495 3496 3497			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(c)(1) of this Subpart;
3498 3499 3500 3501 3502 3503		<u>2)</u>	lithogram used for at the s capture	the Agency in writing if the combined emissions of VOM from all aphic printing lines (including inks, fountain solutions, and solvents or cleanup operations associated with the lithographic printing lines) source ever exceed 45.5 kg/day (100 lbs/day), before the use of e systems and control devices, within 30 days after the event occurs. otification shall include a copy of all records of such event.
3504 3505	<u>b)</u>	Exem	pt units o	on and after May 1, 2010.
3506 3507 3508 3509 3510 3511 3512 3513 3514 3515 3516 3517 3518 3519 3520	May 1, 20 whicheve an owner limitation Section 2 Agency th (b)(1)(A), and (b)(1) complyin requirement complyin		May 1, whicher an owr limitati Section Agency (b)(1)( and (b) comply require comply	raphic printing lines exempt pursuant to Section $218.405(c)(2)$ . By 2010, or upon initial start-up of a new lithographic printing line, ever is later, and upon modification of a lithographic printing line, there or operator of lithographic printing lines exempt from the ions in Section 218.407 of this Subpart because of the criteria in 1218.405(c)(2) of this Subpart shall submit a certification to the y that includes the information specified in either subsections A), (b)(1)(B), and (b)(1)(D) of this Section or subsections (b)(1)(A) (1)(C) of this Section, as applicable. An owner or operator ving with subsection (b)(1)(E) of this Section. An owner or operator ving with subsection (b)(1)(C) shall also comply with the ments in subsection (b)(1)(F) of this Section:

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3521 3522 3523 3524	<u>A)</u>	Sectio	claration that the source is exempt from the requirements in on 218.407 of this Part because of the criteria in Section 05(c)(2) of this Subpart;
3525 3526 3527 3528 3529 3530 3531	<u>B)</u>	from soluti the lit 6.8 kg	lations that demonstrate that combined emissions of VOM all lithographic printing lines (including inks, fountain ons, and solvents used for cleanup operations associated with thographic printing lines) at the source do not equal or exceed g/day (15 lbs/day), before the use of capture systems and ol devices, as follows:
3532 3533 3534 3535 3536 3537 3538 3539		<u>i)</u>	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;
3540 3541 3542 3543 3544	•	<u>ii)</u>	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) of this Subpart shall be used;
3545 3546 3547 3548 3549 3550		<u>iii)</u>	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
3551 3552 3553 3554 3555 3556 3557			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
3558 3559 3560 3561 3562 3563		<u>iv)</u>	To determine VOM emissions from cleaning solutions used on lithographic printing lines at the source, an emission adjustment factor of 0.50 shall be used 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 $20^{\circ}$ C ( $68^{\circ}$ F) and the shop

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3564 3565 3566 3567 3568 3569		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;
3570 3571 3572 3573	<u>C)</u>	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 subsection $(b)(1)(C)(i)$ or (ii), as applicable, during each calendar month. A source may determine that it emits below
3574 3575 3576 3577 3578		<u>6.8 kg/day (15 lbs/day) of VOM based upon compliance with such</u> 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 omissions calculations of subsection (b)(1)(B) to determine daily.
3578 3579 3580 3581 3582		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 (b)(1)(C) as an alternative to the calculations in subsection (b)(1)(B). If a source has both
3583 3584 3585 3586		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 (b)(1)(B).
3587 3588 3589 3590 3591		i) The sum of all sheetfed and nonheatset web offset <u>lithographic printing operations at the source: 242.3 liters</u> (64 gallons) of cleaning solvent and fountain solution additives, combined; or
3592 3593 3594 3595 3596		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;
3597 3598 3599 3600 3601	<u>D)</u>	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(c)(1) of this Subpart;
3602 3603 3604 3605 3606	<u>E)</u>	For sources complying with subsection (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 solutions, and solvents used for cleanup operations associated with

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3607 3608 3609 3610 3611 3612 3613 3614		the lithographic printing lines) at the source ever equal or exceed 6.8 kg/day (15 lbs/day), before the use of capture systems and control devices, within 30 days after the event occurs. If such emissions of VOM at the source equal or exceed 6.8 kg/day (15 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), the source shall comply with the requirements in subsection (b)(2) of this Section;
3615		<u>F)</u> For sources complying with subsection $(b)(1)(C)$ of this Section,
3616		comply with the following:
3617		comply while her following.
3618		i) Maintain material use records showing that the source uses
3619		less than the amount of material specified in subsections
3620		(b)(1)(C)(i) and $(b)(1)(C)(ii)$ during each calendar month,
3620		or, if the source exceeds the material use limitations,
3622		records showing that the source exceeded the limitations,
3623		but did not emit 6.8 kg/day (15 lbs/day) or more of VOM;
3624		
3625		ii) Notify the Agency in writing if the source exceeds the
3626		material use limitations for six consecutive calendar
3627		months, or if the source changes its method of compliance
3628		from subsection $(b)(1)(C)$ to subsection $(b)(1)(B)$ of this
3629		Section, within 30 days after the event occurs;
3630		
3631	<u>2)</u>	Heatset web offset lithographic printing lines exempt pursuant to Section
3632		218.405(c)(1) but not exempt pursuant to Section 218.405(c)(2). By May
3633		1, 2010, or upon initial start-up of a new heatset web offset lithographic
3634		printing line, whichever is later, and upon modification of a heatset web
3635		offset lithographic printing line, an owner or operator of heatset web offset
3636		lithographic printing lines that are exempt from the limitations in Section
3637		218.407 of this Subpart pursuant to the criteria in Section 218.405(c)(1) of
3638		this Subpart, but that are not exempt pursuant to the criteria in Section
3639		218.405(c)(2) of this Subpart, shall submit a certification to the Agency
3640		that includes the information specified in subsections (b)(2)(A) through
3641		(b)(2)(C) of this Section. Such owner or operator shall also comply with
3642		the requirements in subsection (b)(2)(D) of this Section:
3643		
3644		A) A declaration that the source is exempt from the control
3645		requirements in Section 218.407 of this Part because of the criteria
3646		in Section 218.405(c)(1) of this Subpart, but is not exempt
3647		pursuant to the criteria in Section 218.405(c)(2) of this Subpart;
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3649	<u>B)</u>	Calcula	ations that demonstrate that combined emissions of
3650		<u>VOM</u>	from all lithographic printing lines (including inks,
3651		fountai	in solutions, and solvents used for cleanup operations
3652		associa	ated with the lithographic printing lines) at the source
3653		<u>never</u> e	exceed 45.5 kg/day (100 lbs/day) before the use of
3654		capture	e systems and control devices, as follows (the
3655		follow	ing methodology shall also be used to calculate
3656		whethe	er a source exceeds 45.5 kg/day (100 lbs/day) for
3657		purpos	es of determining eligibility for the exclusions set
3658		forth ir	n Section 218.415(c)(3), in accordance with Sections
3659		218.41	1(g)(2)(A)(i):
3660			
3661		<u>i)</u>	To calculate daily emissions of VOM, the owner or
3662			operator shall determine the monthly emissions of
3663			VOM from all lithographic printing lines at the
3664			source (including solvents used for cleanup
3665			operations associated with the lithographic printing
3666			lines) and divide this amount by the number of days
3667			during that calendar month that lithographic
3668			printing lines at the source were in operation;
3669			**************************************
3670		ii)	To determine the VOM content of the inks, fountain
3671			solution additives and cleaning solvents, the test
3672			methods and procedures set forth in Section
3673			218.409(c) of this Subpart shall be used;
3674			
3675		<u>iii)</u>	To determine VOM emissions from inks used on
3676			lithographic printing lines at the source, an ink
3677			emission adjustment factor of 0.05 shall be used in
3678			calculating emissions from all non-heatset inks
3679			except when using an impervious substrate, and a
3680			factor of 0.80 shall be used in calculating emissions
3681			from all heatset inks to account for VOM retention
3682			in the substrate except when using an impervious
3683			substrate. For impervious substrates such as metal
3684			or plastic, no emission adjustment factor is used.
3685			The VOM content of the ink, as used, shall be
3686			multiplied by this factor to determine the amount of
3687			VOM emissions from the use of ink on the printing
3688			lines;
3689			American
3690		<u>iv)</u>	To determine VOM emissions from cleaning
3691		<u> </u>	solvents used on lithographic printing lines at the

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3692 3693 3694 3695 3696 3697 3698 3699 3700 3701 3702 3703					source, an emission adjustment factor of 0.50 shall be used in calculating emissions from cleaning solution in shop towels if the VOM composite vapor pressure of such cleaning solution is less than 10 mmHg measured at 20° C ( $68^{\circ}$ 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 ( $68^{\circ}$ F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used;
3703 3704 3705 3706 3707 3708 3709				<u>C)</u>	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(c)(1) of this Subpart;
3710 3711 3712 3713 3714 3715 3716				<u>D)</u>	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.
3717 3718 3719 3720 3721 3722 3723 3723 3724	<u>c</u> 2)	owner subsec record	tion (a) either <del>B)</del> of th	rator of ) or (b) or the info nis Sect	th subsections (b)(1)(C) and (b)(1)(F) of this Section, an lithographic printing lines subject to the requirements of of this Section shallOn and after March 15, 1996, collect and rmation specified in subsection $(c)(1)$ or $(c)(2)(a)(2)(A)$ or ion for all lithographic printing lines at the source: ordkeeping, including the following:
3725 3726 3727 3728			<u>A</u> i)	lithog	ame and identification of each fountain solution additive, raphic ink, and cleaning solvent used on any lithographic ng line, recorded each month;
3729 3730 3731 3732			<u>B</u> ii)		y record which shows whether a lithographic printing line at urce was in operation on that day;
3733 3734			<u>C</u> iiii)		OM content and the volume of each fountain solution ve, lithographic ink, and cleaning solvent used on any

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3735 3736			lithographic printing line, recorded each month;
3737 3738 3739 3740 3741		<u>D</u> iv)	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;-and
3742 3743 3744 3745 3746		<u>E</u> +)	The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B), <u>218.411(b)(1)(B)</u> , or <u>218.411(b)(2)(B)</u> of this Subpart, as applicable;
3747	<u>2</u> B)	Purch	ase and inventory recordkeeping, including the following:
3748 3749 3750 3751		<u>A</u> i)	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;
3752 3753 3754 3755 3756		<u>B</u> ii)	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;
3757 3758 3759 3760		<u>C</u> iii)	Monthly purchase records for each fountain solution additive, lithographic ink, and cleaning solvent used on any lithographic printing line at the source;
3761 3762 3763		<u>D</u> iv)	A daily record which shows whether a lithographic printing line at the source was in operation on that day;
3764 3765 3766 3767 3768 3769 3770 3771 3772		<u>E</u> +)	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 pursuant to subsections (c)(2)(A), (c)(2)(B), and (c)(2)(C)(a)(2)(B)(i), (a)(2)(B)(ii) and (a)(2)(B)(iii) of this Section; and
3773 3774 3775 3776 3777		<u>F</u> vi)	The VOM emissions in lbs/day for the month, calculated in accordance with Section 218.411(a)(1)(B), <u>218.411(b)(1)(B)</u> , or <u>218.411(b)(2)(B)</u> of this Subpart, <u>as applicable.</u> ;

3778 3779 3780 3781 3782 3783 3783 3784 3785		<del>3)</del>	comb (inclu opera ever c and c	nd after March 15, 1996, notify the Agency in writing if the ined emissions of VOM from all lithographic printing lines ading inks, fountain solutions, and solvents used for cleanup tions associated with the lithographic printing lines) at the source exceed 45.5 kg/day (100 lbs/day), before the use of capture systems ontrol devices, within 30 days after the event occurs. Such cation shall include a copy of all records of such event.
3786 3787	<u>d</u> b)			operator of a heatset web offset lithographic printing $\frac{\text{lines}\text{line}(s)}{\text{control requirements of Section 218.407(a)(1)(C) or (b)(1) of this}$
3788		-		comply with the following:
3789 3790		1)	Rv M	ay 1, 2010March 15, 1996, upon initial start-up of a new printing
3791		1)		and upon initial start-up of a new control device for a heatset web
3792				printing line, submit a certification to the Agency that includes the
3793			follov	
3794				
3795			A)	An identification of each heatset web offset lithographic printing
3796				line at the source;
3797			2	
3798			B)	A declaration that each heatset web offset lithographic printing line
3799				is in compliance with the requirements of Section 218 407(p)(1)(P) (p)(1)(C) (p)(1)(P) = 1 (p)(1)(P) = 0
3800 3801				218.407(a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) or (b) of this
3801				Subpart, as appropriate;
3803			C)	The type of afterburner or other approved control device used to
3804			0)	comply with the requirements of Section 218.407(a)(1)(C) or
3805				(b)(1) of this Subpart and the date that such device was first
3806				constructed at the source;
3807				
3808			D)	The control requirements in Section 218.407(a)(1)(C) or (b)(1) of
3809				this Subpart with which the lithographic printing line is complying;
3810				
3811			E)	The results of all tests and calculations necessary to demonstrate
3812				compliance with the control requirements of Section
3813				218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
3814 3815			F)	A declaration that the monitoring equipment required under
3815			1)	Section 218.407(a)(1)(D) or (b) of this Subpart, as applicable, has
3817				been properly installed and calibrated according to manufacturer's
3818				specifications;
3819				T
3820		2)	If test	ing of the afterburner or other approved control device is conducted

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3821 3822 3823 3824 3825		shall, test re	ant to Section 218.409(b) of this Subpart, the owner or operator within 90 days after conducting such testing, submit a copy of all sults to the Agency and shall submit a certification to the Agency acludes the following:
3826 3827 3828 3829 3830		A)	A declaration that all tests and calculations necessary to demonstrate whether the lithographic printing <u>linesline(s)</u> is in compliance with Section 218.407(a)(1)(C) or (b)(1) of this Subpart, as applicable, have been properly performed;
3831 3832 3833 3834		B)	A statement whether the lithographic printing <u>lines</u> line(s) is or is not in compliance with Section $218.407(a)(1)(C)$ or $(b)(1)$ of this Subpart, as applicable; and
3835 3836 3837 3838		C)	The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
3839 3840 3841 3842 3843	3)	March each h	t as provided in subsection $(d)(3)(D)(ii)$ of this Section. On and after 15, 1996, collect and record daily the following information for leatset web offset lithographic printing line subject to the ements of Section 218.407(a)(1)(C) or (b)(1) of this Subpart:
3844 3845 3846 3847		A)	Afterburner or other approved control device monitoring data in accordance with Section 218.410(c) or (d) of this Subpart, as applicable;
3848 3849 3850 3851		B)	A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated printing line;
3852 3853 3854 3855 3856		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
3857 3858 3859 3860 3861		D)	A log detailing checks on the air flow direction or air pressure of the dryer and press room to <u>ensureinsure</u> compliance with the requirements of Section $218.407(a)(1)(B)$ of this Subpart <u>as follows:</u>
3862 3863			i) <u>Prior to May 1, 2010, at least once per 24-hour period</u> while the line is operating; <u>and</u>

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3864				
3865				ii) On and after May 1, 2010, at least once per calendar month
3866				while the line is operating
3867				
3868		4)	Notify	y <del>On and after March 15, 1996, notify</del> the Agency in writing of any
3869		,	-	ion of Section 218.407(a)(1)(C) or (b)(1) of this Subpart within 30
3870				after the occurrence of such violation. Such notification shall include
3871			-	y of all records of such violation;
3872			1.	· · · · · · · · · · · · · · · · · · ·
3873		5)	If cha	nging its method of compliance between subsections $(a)(1)(C)$ and
3874		-)		Section 218.407 of this Subpart, certify compliance for the new
3875				od of compliance in accordance with subsection (b)(1) of this Section
3876				st 30 days before making such change, and perform all tests and
3877				ations necessary to demonstrate that such printing <u>linesline(s)</u> will
3878				compliance with the requirements of Section 218.407(a)(1)(B),
3879				(C), $(a)(1)(D)$ and $(a)(1)(E)$ of this Subpart, or Section 218.407(b) of
3880				ubpart, as applicable.
3881				
3882	<u>e</u> e)	An ox	wher or	operator of a lithographic printing line subject to Section
3883	<u>v</u> c)			)(A), (a)(2), or (a)(3) of this Subpart, shall:
3884		210.4	07(a)(1)	(11), (a)(2), of (a)(3) of and Subpart, shall.
3885		1)	By M	ay 1, 2010March 15, 1996, and upon initial start-up of a new
3886		1)	-	raphic printing line, certify to the Agency that fountain solutions
3887			-	on each lithographic printing line will be in compliance with the
3888				able VOM content limitation. Such certification shall include:
3889			appine	able volvi content minitation. Such certification shall include.
3890			A)	Identification of each lithographic printing line at the source, by
3891			ЛЈ	type, e.g., heatset web offset, non-heatset web offset, or sheet-fed
3892				offset;
3893				onset,
3893			B)	Identification of each centralized fountain solution reservoir and
3895			Б)	each lithographic printing line that it serves;
3896				caen nulographic printing fine that it serves,
3890			C)	A statement that the fountain solution will comply with the VOM
3898			0)	<u>content limitations in Section 218.407(a)(1)(A), (a)(2), or (a)(3), as</u>
3899				applicable; The VOM content limitation with which each fountain
3900				solution will comply;
3900 3901				solution will comply;
3901 3902			D)	Initial documentation that each type of fountain solution will
3902 3903			D)	Initial documentation that each type of fountain solution will
3903 3904				comply with the applicable VOM content <u>limitations</u> including copies of manufacturer's appointed to the transitions that results if
3904 3905				including copies of manufacturer's specifications, test results, if
3905				any, formulation data and calculations;
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3907 3908 3909 3910 3911 3912		E)	demo e.g., a recore	ification of the <u>methods</u> method that will be used to nstrate continuing compliance with the applicable limitation, a refractometer, hydrometer, conductivity meter, or dkeeping procedures with detailed description of the liance methodology; and
3912 3913 3914 3915		F)		nple of the records that will be kept pursuant to Section $11(\underline{ee})(2)$ of this Subpart.
3915 3916 3917 3918	2)			d after March 15, 1996, collect and record the following for each fountain solution:
3919 3920 3921 3922 3923 3924		A)	prepa lithog batch	name and identification of each batch of fountain solution red for use on one or more lithographic printing lines, the graphic printing <u>lines</u> line(s) or centralized reservoir using such of fountain solution, and the applicable VOM content ation for the batch;
3925 3926 3927 3928 3929		B)	condı demo	owner or operator uses a hydrometer, refractometer, or activity meter, pursuant to Section 218.410(b)(1)(B), to nstrate compliance with the applicable VOM content limit in on 218.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart:
3930 3931 3932			i)	The date and time of preparation, and each subsequent modification, of the batch;
3932 3933 3934 3935			ii)	The results of each measurement taken in accordance with Section 218.410(b) of this Subpart;
3936 3937 3938 3939 3940 3941			iii)	Documentation of the periodic calibration of the meter in accordance with the manufacturer's specifications, including date and time of calibration, personnel conducting, identity of standard solution, and resultant reading; and
3941 3942 3943 3944 3945			iv)	Documentation of the periodic temperature adjustment of the meter, including date and time of adjustment, personnel conducting and results;
3943 3946 3947 3948 3949		C)	to Sec	VOM content of the fountain solution is determined pursuant etion 218.410(b)(1)(A) of this Subpart, for each batch of as- ed fountain solution:

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3950 3951		i)	Date and time of preparation and each subsequent modification of the batch;
3952			
3953		ii)	Volume or weight, as applicable, and VOM content of each
3954			component used in, or subsequently added to, the fountain
3955			solution batch;
3956			
3957		iii)	Calculated VOM content of the as-applied fountain
3958			solution; and
3959			
3960		iv)	Any other information necessary to demonstrate
3961			compliance with the applicable VOM content limits in
3962			Section 218.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart,
3963			as specified in the source's operating permit;
3964			
3965	D)	If the V	/OM content of the fountain solution is determined pursuant
3966		to Sect	ion 218.410(b)(2) of this Subpart, for each setting:
3967			
3968		i)	VOM content limit corresponding to each setting;
3969			
3970		ii)	Date and time of initial setting and each subsequent setting;
3971			
3972		iii)	Documentation of the periodic calibration of the automatic
3973		-	feed equipment in accordance with the manufacturer's
3974			specifications; and
3975			
3976		iv)	Any other information necessary to demonstrate
3977		ŕ	compliance with the applicable VOM content limits in
3978			Sections 218.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart,
3979			as specified in the source's operating permit;
3980			
3981	E)	If the c	wher or operator relies on the temperature of the fountain
3982		solutio	n to comply with the requirements in Section
3983		218.40	7(a)(1)(A)(ii) or $(a)(3)(B)$ of this Subpart:
3984			
3985		i)	The temperature of the fountain solution at each printing
3986			line, as monitored in accordance with Section 218.410(a);
3987			and
3988			
3989		ii)	A maintenance log for the temperature monitoring devices
3990		-	and automatic, continuous temperature recorders detailing
3991			all routine and non-routine maintenance performed,
3992			including dates and duration of any outages;
			-

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3993 3994		2)	Natif	with A concretion writing of any violation of Spatian 218,407 of this				
3994 3995		3)	-	y the Agency in writing of any violation of Section 218.407 of this				
			-	art within 30 days after the occurrence of such violation. Such				
3996			noune	cation shall include a copy of all records of such violation.; and				
3997		4)	TC .1					
3998		4)		nging its method of demonstrating compliance with the applicable				
3999				content limitations in Section 218.407 of this Subpart, or changing				
4000				ethod of demonstrating compliance with the VOM content				
4001				tions for fountain solutions pursuant to Section 218.409 of this				
4002			-	art, certify compliance for such new method(s) in accordance with				
4003				ction (c)(1) of this Section within 30 days after making such change,				
4004			-	erform all tests and calculations necessary to demonstrate that such				
4005			~	ng line(s) will be in compliance with the applicable requirements of				
4006			Sectio	on 218.407 of this Subpart.				
4007								
4008	<u>f</u> d)			hic printing line cleaning operations, an owner or operator of a				
4009		lithog	graphic p	printing line subject to the requirements of Section 218.407 of this				
4010		Subp	part shall:					
4011								
4012		1)	Ву <u>М</u>	ay 1, 2010March 15, 1996, and upon initial start-up of a new				
4013			lithog	raphic printing line, certify to the Agency that all cleaning solutions,				
4014				than those excluded pursuant to Section 218.405(c)(3)(C), and the				
4015				ing of <u>all</u> cleaning materials, will be in compliance with the				
4016				rements of Section 218.407(a)(4)(A) or $(a)(4)(B)$ and $(a)(5)$ of this				
4017			-	art, and such certification shall also include:				
4018								
4019			A)	Identification of each VOM containing cleaning solution used on				
4020			,	each lithographic printing line;				
4021								
4022			<u>A</u> B)	A statement that the cleaning solution will comply with the				
4023			<u> </u>	limitations in Section 218.407(a)(4); The limitation with which				
4024				each VOM-containing cleaning solution will comply, i.e., the				
4025				VOM content or vapor pressure;				
4026				· Cirk Contoint of Aufor probland,				
4027			<del>C)</del>	Initial documentation that each VOM-containing cleaning solution				
4028			0)	will comply with the applicable limitation, including copies of				
4029				manufacturer's specifications, test results, if any, formulation data				
4030				and calculations;				
4030								
4031 4032			<u>B</u> Ð)	Identification of the methodsmethod that will be used to				
4032 4033				demonstrate continuing compliance with the applicable limitations;				
4033				demonstrate continuing compliance with the applicable initiations,				
4034 4035			<u>C</u> E)	A sample of the records that will be kept pursuant to Section				
-1055			$\underline{\nabla}^{\mathbf{E}}$	r sample of the records that will be kept pursuant to Section				

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4036			218.4	$11(\underline{fd})(2)$ of this Subpart; and
4037				
4038		<u>D</u> F)	A des	cription of the practices that <u>ensureassure</u> that VOM-
4039			conta	ining cleaning materials are kept in closed containers;
4040				
4041	2)	Colle	<u>ct</u> On an	d after March 15, 1996, collect and record the following
4042		inform	nation f	or each cleaning solution used on each lithographic printing
4043		line:		
4044				
4045		A)	For ea	ach cleaning solution for which the owner or operator relies
4046				e VOM content to demonstrate compliance with Section
4047			218.4	07(a)(4)(A) of this Subpart and <u>thatwhich</u> is prepared at the
4048			source	e with automatic equipment:
4049				
4050			i)	The name and identification of each cleaning solution;
4051				
4052			ii)	The VOM content of each cleaning solvent in the cleaning
4053				solution, as determined in accordance with Section
4054				218.409(c) of this Subpart;
4055				
4056			iii)	Each change to the setting of the automatic equipment, with
4057				date, time, description of changes in the cleaning solution
4058				constituents (e.g., cleaning solvents), and a description of
4059				changes to the proportion of cleaning solvent and water (or
4060				other non-VOM);
4061				
4062			iv)	The proportion of each cleaning solvent and water (or other
4063			ŗ	non-VOM) used to prepare the as-used cleaning solution;
4064				
4065			V)	The VOM content of the as-used cleaning solution, with
4066				supporting calculations; and
4067				
4068			vi)	A calibration log for the automatic equipment, detailing
4069			,	periodic checks;
4070				<b>•</b> • •
4071		B)	For ea	ich batch of cleaning solution for which the owner or
4072		,		tor relies on the VOM content to demonstrate compliance
4073			-	Section 218.407(a)(4)(A) of this Subpart, and which is not
4074				red at the source with automatic equipment:
4075			* 1	
4076			i)	The name and identification of each cleaning solution;
4077			,	,
4078			ii)	Date and time of preparation, and each subsequent
			,	

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4079			modification, of the batch;
4080			
4081		iii)	The VOM content of each cleaning solvent in the cleaning
4082			solution, as determined in accordance with Section
4083			218.409(c) of this Subpart;
4084			
4085		iv)	The total amount of each cleaning solvent and water (or
4086			other non-VOM) used to prepare the as-used cleaning
4087			solution; and
4088			
4089		v)	The VOM content of the as-used cleaning solution, with
4090			supporting calculations. For cleaning solutions that are
4091			used as purchased, the manufacturer's specifications for
4092			VOM content may be used if such manufacturer's
4093			specifications are based on results of tests of the VOM
4094			content conducted in accordance with methods specified in
4095			Section 218.105(a) of this Part;
4096		T	
4097	C)		ach batch of cleaning solution for which the owner or
4098		-	tor relies on the vapor pressure of the cleaning solution to
4099			nstrate compliance with Section 218.407(a)(4)(B) of this
4100		Subp	art:
4101		.) .)	The name of identification of a shall show in a shi
4102		i)	The name and identification of each cleaning solution;
4103 4104		;;)	Data and time of propagation and each subsequent
4104		ii)	Date and time of preparation, and each subsequent
4105			modification, of the batch;
4107		iii)	The molecular weight, density, and VOM composite partial
4107		111)	vapor pressure of each cleaning solvent, as determined in
4109			accordance with Section 218.409(e) of this Subpart. For
4110			<u>cleaning solutions that are used as purchased, the</u>
4111			manufacturer's specifications for VOM composite partial
4112			vapor pressure may be used if such manufacturer's
4113			specifications are based on results of tests conducted in
4114			accordance with methods specified in Sections 218.105(a)
4115			and 218.110 of this Part;
4116			
4117		iv)	The total amount of each cleaning solvent used to prepare
4118		··· • •	the as-used cleaning solution; and
4119			<i></i> ,
4120		v)	The VOM composite partial vapor pressure of each as-used
4121		,	cleaning solution, as determined in accordance with Section

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4122 4123 4124 4125 4126 4127 4128			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 such manufacturer's specifications are based on results of tests conducted in accordance with methods specified in Sections 218.105(a) and 218.110 of this Part;
4129 4130 4131 4132 4133 4134			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;
4135 4136 4137 4138 4139		3)	<u>NotifyOn and after March 15, 1996, notify</u> the Agency in writing of any violation of Section 218.407 of this Subpart within 30 days after the occurrence of such violation. Such notification shall include a copy of all records of such violation.
4140 4141 4142 4143 4144 4145 4146 4147 4148		4)	If changing its method of demonstrating compliance with the requirements of Section 218.407(a)(4) of this Subpart, or changing between automatic and manual methods of preparing cleaning solutions, certify compliance for such new method in accordance with subsection $(d)(1)$ of this Section, within 30 days after making such change, and perform all tests and calculations necessary to demonstrate that such printing line(s) will be in compliance with the applicable requirements of Section 218.407(a)(4) of this Subpart.
4149 4150 4151	g)		wner or operator of lithographic printing lines subject to one or more of the sions set forth in Section 218.405(c)(3) shall:
4152 4153 4154 4155		<u>1)</u>	By May 1, 2010, or upon initial start-up of a new lithographic printing line that is subject to one or more of the exclusions set forth in Section 218.405(c)(3), whichever is later, submit a certification to the Agency that includes either:
4156 4157 4158 4159 4160			A) A declaration that the source is subject to one or more of the exclusions set forth in Section 218.405(c)(3) and a statement indicating which such exclusions apply to the source; or
4161 4162 4163			<u>B)</u> <u>A declaration that the source will not make use of any of the exclusions set forth in Section 218.405(c)(3);</u>

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4164 4165 4166		<u>2)</u>	this Sec	the source has certified in accordance with subsection $(g)(1)(B)$ of ction that it will not make use of any of the exclusions set forth in 218.405(c)(3):
4167 4168 4169 4170				Collect and record the following information for all lithographic printing lines at the source:
4171 4172 4173 4174 4175 4176 4177 4178			j	<ul> <li><u>Calculations that demonstrate that combined emissions of</u> <u>VOM from all lithographic printing lines (including inks,</u> <u>fountain solutions, and solvents used for cleanup operations</u> <u>associated with the lithographic printing lines) at the source</u> <u>never exceed 45.5 kg/day (100 lbs/day) before the use of</u> <u>capture systems and control devices, determined in</u> <u>accordance with the calculations in Section</u> <u>218.411(b)(2)(B) of this Subpart;</u></li> </ul>
4178 4179 4180 4181 4182 4183 4184			Ĭ	<ul> <li><u>ii)</u> The amount of cleaning materials used on lithographic printing lines at the source that does not comply with the cleaning material limitations in Section 218.407(a)(4) of this Subpart;</li> </ul>
4184 4185 4186 4187 4188 4189 4190 4191			<u>1</u> <u>5</u> <u>1</u>	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;
4192 4193 4194 4195 4196 4197 4198 4199		<u>3)</u>	218.405 (g)(1)(B exclusio subsecti change, that such	ging from utilization of the exclusions set forth in Section 5(c)(3) to opting out of such exclusions pursuant to subsection 3) of this Section, or if there is a change at the source such that the ons no longer apply, certify compliance in accordance with ion (g)(1)(B) of this Section within 30 days after making such and perform all tests and calculations necessary to demonstrate h printing lines will be in compliance with the applicable ments of Section 218.407 of this Subpart;
4200 4201 4202 4203 4204 4205		<u>4)</u>	218.405 of such	ging from opting out of the exclusions set forth in Section $\overline{S(c)(3)}$ pursuant to subsection (g)(1)(B) of this Section to utilization exclusions, certify compliance in accordance with subsection A) of this Section within 30 days after making such change.
4203	<u>h</u> e)	The ov	wner or oj	perator shall maintain all records required by this Section at the

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4207			e for a minimum period of three years and shall make all records available to
4208		the A	gency upon request.
4209	•、	~ ·	
4210	<u>i)</u>		sions for calculation of emissions from heatset web offset lithographic
4211		*	ng operations. To calculate VOM emissions from heatset web offset
4212			graphic printing operations for purposes other than the applicability
4213			nolds specified in Section 218.405 of this Subpart, sources may use the
4214			ving emission adjustment factors (for Annual Emissions Reports or permit
4215		<u>limits</u>	s, for example):
4216			
4217		<u>1)</u>	A factor of 0.80 may be used in calculating emissions from all heatset inks
4218			to account for VOM retention in the substrate except when using an
4219			impervious substrate. For impervious substrates such as metal or plastic,
4220			no emission adjustment factor is used. The VOM content of the ink, as
4221			used, shall be multiplied by this factor to determine the amount of VOM
4222			emissions from the use of ink on the printing lines;
4223			
4224		<u>2)</u>	To determine VOM emissions from fountain solutions that contain no
4225			alcohol, an emission adjustment factor may be used to account for
4226			carryover into the dryer, except when using an impervious substrate. The
4227			VOM emitted from the fountain solution shall be calculated using the
4228			following equation:
4229			
4230			$Vom_{fs} = 0.30 \times Vom_{tot} + (0.70 \times Vom_{tot}) = \times (1 - DE)$
			$\frac{1}{f_s} = \frac{1}{f_s} + \frac{1}$
4231			
4232			where:
4233			
			$\underline{\text{VOM}}_{\text{tot}} = \underline{\text{Total VOM in the fountain solution;}}$
			$\underline{VOM}_{fs} = \underline{VOM}$ emitted from the fountain solution;
			DE _ Destruction officiency of the control device on the accorded
			$\underline{DE} = \underline{Destruction efficiency of the control device on the associated}$
			dryer, in decimal form (i.e., 95% control is represented as 0.95).
4024			If no control device is present, $DE = 0$ ;
4234			For fountain colutions that contain alashal importations substrates such as
4235			For fountain solutions that contain alcohol, impervious substrates such as
4236			metal or plastic, or non-heatset lithographic presses, no emission
4237			adjustment factor is used;
4238		2)	To determine MOM emissions from all in the state
4239		<u>3)</u>	To determine VOM emissions from cleaning solutions used on heatset
4240			web offset lithographic printing lines at the source, an emission
4241			adjustment factor of 0.50 may be used in calculating emissions from used
4242			shop towels if the VOM composite vapor pressure of each associated

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4243		cleaning solution is less than 10 mmHg measured at 20° C (68° F) and the
4244		shop towels are kept in closed containers. To determine VOM emissions
4245		from automatic blanket wash solution with a VOM composite vapor
4246		pressure of less than 10 mmHg measured at 20° C (68° F), an emission
4247		adjustment factor may be used to account for carryover into the dryer,
4248		except when using an impervious substrate. The VOM emitted from the
4249		automatic blanket wash solution shall be calculated using the following
4250		equation.
4251		
4252		$Vom_{bw} = 0.60 \times Vom_{tot} + (0.40 \times Vom_{tot}) \times (1 - DE)$
4253		
4254		where:
4255		
		$\underline{DE} = \underline{Destruction efficiency of the control device on the associated}$
		dryer, in decimal form (i.e., 95% control is represented as 0.95).
1050		If no control device is present, $DE = 0$ ;
4256		
4257		For cleaning solutions with VOM composite vapor pressures of equal to or
4258		greater than 10 mmHg measured at 20°C (68°F), for shop towels that are
4259		not kept in closed containers, and for impervious substrates such as metal
4260		or plastic, no emission adjustment factor is used.
4261 4262	(Sour	ce: Amended at 34 Ill. Reg, effective)
4263	× •	
4264	Section 218.4	12 Letterpress Printing Lines: Applicability
4265 4266	0)	Except as provided in subsection (b) of this Section, on and after May 1, 2010, the
4266 4267	<u>a)</u>	limitations in Sections 218.413 through 218.416 of this Subpart shall apply to:
4267		miniations in Socions 210.415 through 218.410 of this Subpart shall apply to:
4268		1) All heatset web letterpress printing lines at a source if all heatset web
4209		letterpress printing lines (including solvents used for cleanup operations
4270		associated with heatset web letterpress printing lines) at the source have a
4272		total potential to emit 22.7 Mg (25 tons) or more of VOM per year; and
4272		total potential to entit 22.7 Mg (25 tons) of more of volvi per year, and
4273		2) All letterpress printing lines at a source where the combined emissions of
4274		VOM from all letterpress printing lines at a source where the combined emissions of VOM from all letterpress printing lines at the source (including solvents
4275		used for cleanup operations associated with the letterpress printing lines)
4270		ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air
4277		pollution control equipment, calculated in accordance with Section
4278		218.417(b)(1)(B).
4279		
4280		

4281 4282 4283 4284	<u>b)</u>	218.413(a)(2	2) of this	erials used on letterpress printing lines at a subject source.					
4285 4286 4287 4288	<u>c)</u>		417 of t	2010, the recordkeeping and reporting requirements in his Subpart shall apply to all owners or operators of ines.					
4289 4290 4291	<u>d)</u>	limitations in	If a letterpress printing line at a source is or becomes subject to 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.						
4292 4293 4294	(Sou	rce: Added at 2	34 Ill. Re	eg, effective)					
4295	Section 218	.413 Emission	Limita	tions and Control Requirements for Letterpress Printing					
4296	Lines			tions and Control Requirements for Eletter press i finding					
4297									
4298	<u>a)</u>	No owner or	operato	r of letterpress printing lines subject to the requirements of					
4299	<u> </u>	this Subpart	*****	<u>. extensives priming miles subject to the requirements or</u>					
4300									
4301		<u>1) Caus</u>	e or allo	w the operation of any heatset web letterpress printing line					
4302				e applicability requirements of Section 218.412(a)(1) unless:					
4303				<u></u>					
4304		<u>A)</u>	The a	ir pressure in the dryer is maintained lower than the air					
4305				re of the press room, such that air flow through all openings					
4306				dryer, other than the exhaust, is into the dryer at all times					
4307				the printing line is operating;					
4308									
4309		<u>B)</u>	An af	terburner is installed and operated so that VOM emissions					
4310				iding methane and ethane) from the press dryer exhausts are					
4311			-	ed as follows:					
4312									
4313			<u>i)</u>	By 90 percent, by weight, for afterburners first constructed					
4314				at the source prior to January 1, 2010;					
4315									
4316			<u>ii)</u>	By 95 percent, by weight, for afterburners first constructed					
4317				at the source on or after January 1, 2010; or					
4318									
4319			<u>iii)</u>	To a maximum afterburner exhaust outlet concentration of					
4320				20 ppmv (as carbon);					
4321									
4322		<u>C)</u>	The a	fterburner complies with all monitoring provisions specified					
4323			in Sec	tion 218.416(a) of this Subpart; and					

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4324 4325 4326 4327 4328			<u>D)</u>	The afterburner is operated at all times when the printing line is in operation, except the afterburner may be shut down between November 1 and April 1 as provided in Section 218.107 of this Part;
4329 4330 4331		<u>2)</u>	<u>Cause</u> line u	e or allow the use of a cleaning solution on any letterpress printing nless:
4332 4333 4334 4325			<u>A)</u>	The VOM content of the as-used cleaning solution is less than or equal to 70 percent, by weight; or
4335 4336 4337 4338			<u>B)</u>	<u>The VOM composite partial vapor pressure of the as-used cleaning</u> solution is less than 10 mmHg at 20° C (68° F);
4339 4340 4341 4342		<u>3)</u>	<u>cleani</u> stored	e or allow VOM-containing cleaning materials, including used ng towels, associated with any letterpress printing line to be kept, , or disposed of in any manner other than in closed containers, t when specifically in use.
4343 4344 4345 4346	<u>b)</u>	requir	rements	operator of a heatset web letterpress printing line subject to the of subsection (a)(1)(B) of this Section may use a control device afterburner, if:
4347 4348 4349		<u>1)</u>	<u>The co</u> as foll	ontrol device reduces VOM emissions from the press dryer exhausts ows:
4350 4351 4352 4252			<u>A)</u>	By 90 percent, by weight, for control devices first constructed at the source prior to January 1, 2010;
4353 4354 4355 4356			<u>B)</u>	By 95 percent, by weight, for control devices first constructed at the source on or after January 1, 2010; or
4350 4357 4358 4359			<u>C)</u>	To a maximum control device exhaust outlet concentration of 20 ppmv (as carbon);
4360 4361 4362		<u>2)</u>	monit	wner or operator submits a plan to the Agency detailing appropriate oring devices, test methods, recordkeeping requirements, and ing parameters for the control device; and
4363 4364 4365 4366		<u>3)</u>		se of the control device in accordance with this plan is approved by gency and USEPA as federally enforceable permit conditions.

	(Sou	rce: Add	ed at 34	4 Ill. Reg, effective)
Sec	tion 218	.415 Tes	ting for	r Letterpress Printing Lines
	<u>a)</u>			nonstrate compliance with the requirements of Section 218.413 of
				hall be conducted by the owner or operator within 90 days after a
				Agency, or as otherwise specified in this Subpart. Such testing
				acted at the expense of the owner or operator, and the owner or
				notify the Agency in writing 30 days in advance of conducting such
		testing	to allo	w the Agency to be present during such testing.
	<u>b)</u>	The m	ethods a	and procedures of Section 218.105(d) and (f) shall be used for
		testing	to dem	ionstrate compliance with the requirements of Section
		<u>218.41</u>	3(a)(1)	(B) or (b)(1) of this Subpart, as follows:
		<u>1)</u>	To sel	ect the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60,
		<u>+</u> /		dix A, incorporated by reference in Section 218.112 of this Part.
				impling sites for determining efficiency in reducing VOM from the
				exhaust shall be located between the dryer exhaust and the control
				inlet, and between the outlet of the control device and the exhaust
				atmosphere;
		<u>2)</u>	To det	ermine the volumetric flow rate of the exhaust stream, Method 2,
		<del>_</del>		C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by
			-	nce in Section 218.112 of this Part;
		<u>3)</u>	<u>To det</u>	ermine the VOM concentration of the exhaust stream entering and
			exiting	g the control device, Method 25 or 25A, as appropriate, 40 CFR 60,
			Appen	dix A, incorporated by reference in Section 218.112 of this Part.
			For the	ermal and catalytic afterburners, Method 25 must be used except
			under	the following circumstances, in which case Method 25A must be
			used:	
			<u>A)</u>	The allowable outlet concentration of VOM from the control
				device is less than 50 ppmv, as carbon;
			<u>B)</u>	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
			<u>C)</u>	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

4410 4411 4412 4413 4414 4415 4415 4416 4417 4418 4419 4420 4421			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 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;
4422		<u>4)</u>	Notwithstanding the criteria or requirements in Method 25 which specifies
4423		<u> </u>	a minimum probe temperature of 129° C (265° F), the probe must be
4424			heated to at least the gas stream temperature of the dryer exhaust, typically
4425			close to $176.7^{\circ}$ C ( $350^{\circ}$ F);
4426			
4427		<u>5)</u>	During testing, the printing lines shall be operated at representative
4428			operating conditions and flow rates; and
4429			
4430		<u>6)</u>	During testing, an air flow direction indicating device, such as a smoke
4431			stick, shall be used to demonstrate 100 percent emissions capture
4432			efficiency for the dryer in accordance with Section 218.413(a)(1)(A) of
4433			this Subpart.
4434			
4435	<u>c)</u>	<u>Testir</u>	ng to demonstrate compliance with the VOM content limitations in Section
4436		<u>218.4</u>	13(a)(2)(A) of this Subpart, and to determine the VOM content of cleaning
4437			nts, cleaning solutions, and inks (pursuant to the requirements of Section
4438		<u>218.4</u>	17(b)(1)(B) of this Subpart), shall be conducted upon request of the Agency,
4439		or as o	otherwise specified in this Subpart, as follows:
4440			
4441		<u>1)</u>	The applicable test methods and procedures specified in Section
4442			218.105(a) of this Part shall be used; provided, however, Method 24,
4443			incorporated by reference in Section 218.112 of this Part, shall be used to
4444			demonstrate compliance; or
4445			
4446		<u>2)</u>	The manufacturer's specifications for VOM content for cleaning solvents
4447			and inks may be used if such manufacturer's specifications are based on
4448			results of tests of the VOM content conducted in accordance with methods
4449			specified in Section 218.105(a) of this Part; provided, however, Method24
4450			shall be used to determine compliance.
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4452	<u>d)</u>	Testing to demonstrate compliance with the requirements of Section 218.413(b)
4453		of this Subpart shall be conducted as set forth in the owner or operator's plan
4454		approved by the Agency and USEPA as federally enforceable permit conditions
4455		pursuant to Section 218.413(b) of this Subpart.
4456		
4457	<u>e)</u>	Testing to determine the VOM composite partial vapor pressure of cleaning
4458		solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be
4459		conducted in accordance with the applicable methods and procedures specified in
4460		Section 218.110 of this Part.
4461		
4462	(Sourc	e: Added at 34 Ill. Reg, effective)
4463 4464	Section 218 A	16 Monitoring Requirements for Letterpress Printing Lines
4465	Section 210.4	10 Wontoring Requirements for Letter press r finting Lines
4466	<u>a)</u>	Afterburners for heatset web letterpress printing lines. If an afterburner is used to
4467	<u>u/</u>	demonstrate compliance, the owner or operator of a heatset web letterpress
4468		printing line subject to Section 218.413(a)(1)(B) of this Subpart shall:
4469		printing the busyeet to beetion brothis (u((1), b), or the busyatteman.
4470		1) Install, calibrate, maintain, and operate temperature monitoring devices
4471		with an accuracy of $3^{\circ}$ C or $5^{\circ}$ F on the afterburner in accordance with
4472		Section 218.105(d)(2) of this Part and in accordance with the
4473		manufacturer's specifications. Monitoring shall be performed at all times
4474		when the afterburner is operating; and
4475		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, _,
4476		2) Install, calibrate, operate, and maintain, in accordance with manufacturer's
4477		specifications, a continuous recorder on the temperature monitoring
4478		devices, such as a strip chart, recorder or computer, with at least the same
4479		accuracy as the temperature monitor.
4480		
4481	<u>b)</u>	Other control devices for heatset web letterpress printing lines. If a control device
4482		other than an afterburner is used to demonstrate compliance, the owner or
4483		operator of a heatset web letterpress printing line subject to this Subpart shall
4484		install, maintain, calibrate, and operate such monitoring equipment as set forth in
4485		the owner or operator's plan approved by the Agency and USEPA pursuant to
4486		Section 218.413(b) of this Subpart.
4487		
4488	<u>c)</u>	Cleaning solution.
4489		
4490		1) The owner or operator of any letterpress printing line relying on the VOM
4491		content of the cleaning solution to comply with Section 218.413(a)(2)(A)
4492		of this Subpart must:
4493		

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4494 4495 4496 4497		<u>A)</u>	For cleaning solutions that are prepared at the source with equipment that automatically mixes cleaning solvent and water (or other non-VOM):
4498 4499 4500 4501			i) Install, operate, maintain, and calibrate the automatic feed equipment in accordance with manufacturer's specifications to regulate the volume of each of the cleaning solvent and water (or other non-VOM), as mixed; and
4502 4503 4504 4505 4506			ii) <u>Pre-set the automatic feed equipment so that the</u> <u>consumption rates of the cleaning solvent and water (or</u> <u>other non-VOM), as applied, comply with Section</u> <u>218.413(a)(2)(A) of this Subpart;</u>
4507 4508 4509 4510 4511		<u>B)</u>	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) as set forth in Section 218.417(c)(2) of this Subpart.
4512 4513 4514 4515 4516	<u>2)</u>	pressu of this	wner or operator of any letterpress printing line relying on the vapor are of the cleaning solution to comply with Section 218.413(a)(2)(B) a Subpart must keep records for such cleaning solutions used on any ines as set forth in Section 218.417(e)(2)(C) of this Subpart.
4517 4518 4519 4520			4 Ill. Reg, effective) eping and Reporting for Letterpress Printing Lines
4521 4522 4523 4524 4525 4526 4527 4528	line, v printi exem	whicheven ng line, pt from iteria in	10, or upon initial start-up of a new heatset web letterpress printing er is later, and upon modification of a heatset web letterpress an owner or operator of a heatset web letterpress printing line any of the limitations of Section 218.413 of this Subpart because of Section 218.412(a)(1) shall submit a certification to the Agency that
4528 4529 4530 4531 4532	<u>1)</u>	218.41	laration that the source is exempt from the requirements in Section 13 of this Subpart because of the criteria in Section 218.412(a)(1) of ubpart:
4532 4533 4534 4535	<u>2)</u>		ations which demonstrate that the source's total potential to emit does not equal or exceed 22.7 Mg (25 tons) per year.

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4537       limitations of Section 218.413 of this Subpart because of the criteria in Section 218.412(a)(2) shall:         4539       1)       By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon 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:         4543       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       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;         4549       9         4550       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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows:         4555       i)       To calculate daily emissions of VOM, the owner or operator 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 at the source (including solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;         4561       10	*					
4537       limitations of Section 218.413 of this Subpart because of the criteria in Section 218.412(a)(2) shall:         4539       1)       By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon modification of a letterpress printing line, submit a certification to the Agency that includes the information specified in cither 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:         4543       in cither 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:         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       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;         4549       9         4550       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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows:         4555       i)       To calculate daily emissions of VOM, the owner or operator 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 at the source (including solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be	x					JCAR350218-1001791r01
4538       218.412(a)(2) shall:         4539       1)       By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon 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:         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       A         4546       A)         4547       requirements in Section 218.413 of this Part because of the criteria in Section 218.412(a)(2) of this Subpart;         4548       in Section 218.412(a)(2) of this Subpart;         4549       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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows;         4555       i)       To calculate daily emissions of VOM, the owner or operator shall determine the monthy emissions of VOM from all letterpress printing lines, and eleaning 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 in operation;         4561       10       To determine the VOM content of the inks and cleaning solvents, the tests methods, and procedures set forth in Section 218.	4536	<u>b)</u>	<u>An ov</u>	vner or	operato	r of a letterpress printing line exempt from any of the
4539         4540       1)       By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon 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 4544         4542       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 4544         4545       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;         4549       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) in the absence of air pollution control equipment, as follows:         4550       B)       Calculate daily emissions of VOM, from all letterpress printing lines at the source of a kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows:         4555       i)       To calculate daily emissions of VOM, from all letterpress printing lines at the source (including solvents used for cleanup operations associated with the letterpress printing lines at the source or operation; associated with the letterpress printing lines at the source or including solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;         4556       ii)       To determine the VOM content of the inks used on letterpress printing	4537		limita	tions of	Section	n 218.413 of this Subpart because of the criteria in Section
45401)By May 1, 2010, or upon initial start-up of a new letterpress printing line, whichever is later, and upon 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;4543auter subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable;4544subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable;4545A)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;4549B)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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows:4550i)To calculate daily emissions of VOM, the owner or operator 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 at the source were in operation;4561ii)To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;4567iii)To determine VOM emissions from inks used on letterpress 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 imp	4538		<u>218.4</u>	12(a)(2)	shall:	
4541       whichever is later, and upon modification of a letterpress printing line,         4542       submit a certification to the Agency that includes the information specified         4543       in either subsections (b)(1)(A) through (b)(1)(C) of this Section, or         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       A         4546       A)         4547       requirements in Section 218.413 of this Part because of the criteria         4548       in Section 218.412(a)(2) of this Subpart;         4549       E)         4550       B)         Calculations that demonstrate that combined emissions of VOM         from all letterpress printing lines (including inks and solvents used         4551       for cleanup operations associated with the letterpress printing         4552       for calculate daily emissions of VOM, the owner or         4555       operator shall determine the monthly emissions of VOM         4558       from all letterpress printing lines at the source (including         4560       J)       To calculate daily emissions of VOM, the owner or         4557       operator shall determine the monthly emissions of VOM         4558       from all letterpress printing lines at the source (including         4560       literpress printing lines at the source owner (includi	4539					
4541       whichever is later, and upon modification of a letterpress printing line,         4542       submit a certification to the Agency that includes the information specified         4543       in either subsections (b)(1)(A) through (b)(1)(C) of this Section, ar         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       4546         4546       A)         4547       requirements in Section 218.413 of this Part because of the criteria         4548       in Section 218.412 (a)(2) of this Subpart;         4549       B)       Calculations that demonstrate that combined emissions of VOM         4550       B)       Calculations that demonstrate that combined emissions of VOM         4551       from all letterpress printing lines (including inks and solvents used         4552       for cleanup operations associated with the letterpress printing         4553       lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day),         4554       in the absence of air pollution control equipment, as follows:         4555       i)       To calculate daily emissions of VOM, the owner or         4556       i)       To calculate daily emissions associated with the         4557       operator shall determine the monthly emissions of VOM         4560       li)       To calculate daily emissions of VOM,	4540		1)	By M	ay 1, 20	010, or upon initial start-up of a new letterpress printing line,
4543       in either subsections (b)(1)(A) through (b)(1)(C) of this Section, or         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       4545         4546       A)       A declaration that the source is exempt from the control         4547       requirements in Section 218.413 of this Part because of the criteria         4548       in Section 218.412(a)(2) of this Subpart;         4549       B)       Calculations that demonstrate that combined emissions of VOM         4551       from all letterpress printing lines (including inks and solvents used         4552       for cleanup operations associated with the letterpress printing         4553       lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day),         4554       in the absence of air pollution control equipment, as follows:         4555       is         4556       i)       To calculate daily emissions of VOM, the owner or         4560       golvents used for cleanup operations associated with the         4561       number of days during that calendar month that letterpress         4562       printing lines at the source were in operation;         4563       ii)       To determine the VOM content of the inks and cleaning         4564       ii)       To determine VOM emissions from inks used on letterpress      <	4541					
4543       in either subsections (b)(1)(A) through (b)(1)(C) of this Section, or         4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       4545         4546       A)       A declaration that the source is exempt from the control         4547       requirements in Section 218.413 of this Part because of the criteria         4548       in Section 218.412(a)(2) of this Subpart;         4549       B)       Calculations that demonstrate that combined emissions of VOM         4551       from all letterpress printing lines (including inks and solvents used         4552       for cleanup operations associated with the letterpress printing         4553       lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day),         4554       in the absence of air pollution control equipment, as follows:         4555       is         4556       i)       To calculate daily emissions of VOM, the owner or         4560       golvents used for cleanup operations associated with the         4561       number of days during that calendar month that letterpress         4562       printing lines at the source were in operation;         4563       ii)       To determine the VOM content of the inks and cleaning         4564       ii)       To determine VOM emissions from inks used on letterpress      <	4542			<u>submi</u>	t a certi	fication to the Agency that includes the information specified
4544       subsections (b)(1)(A) and (b)(1)(D) of this Section, as applicable:         4545       A)       A declaration that the source is exempt from the control         4546       requirements in Section 218.413 of this Part because of the criteria         4547       in Section 218.412(a)(2) of this Subpart;         4549       Electron 218.412(a)(2) of this Subpart;         4549       Electron 218.412(a)(2) of this Subpart;         4550       B)       Calculations that demonstrate that combined emissions of VOM         4551       from all letterpress printing lines (including inks and solvents used         4552       for cleanup operations associated with the letterpress printing         4553       lines) at the source never equal or exceed 6.8 kg/day (15 lbs/day),         4554       in the absence of air pollution control equipment, as follows:         4555       i)       To calculate daily emissions of VOM, the owner or         4556       i)       To calculate daily emissions of VOM, the owner or         4559       solvents used for cleanup operations associated with the         4560       letterpress printing lines at the source (including         4561       number of days during that calendar month that letterpress         4563       printing lines at the source were in operation;         4563       Solvents, the tests methods and procedures set	4543					
4545       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;         4548       in Section 218.412(a)(2) of this Subpart;         4549       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 never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, as follows;         4555       i)       To calculate daily emissions of VOM, the owner or operator 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 in operation;         4561       To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;         4565       iii)       To determine VOM emissions from inks used on letterpress 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	4544					
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4564ii)To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;4566Section 218.415(c) of this Subpart shall be used;4567iii)To determine VOM emissions from inks used on letterpress 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						printing miles at the boarde were in operation,
4565solvents, the tests methods and procedures set forth in Section 218.415(c) of this Subpart shall be used;4566Section 218.415(c) of this Subpart shall be used;4567To determine VOM emissions from inks used on letterpress 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					ii)	To determine the VOM content of the inks and cleaning
4566Section 218.415(c) of this Subpart shall be used;456745674568iii)To determine VOM emissions from inks used on letterpress4569printing lines at the source, an ink emission adjustment4570factor of 0.05 shall be used in calculating emissions from4571all non-heatset inks except when using an impervious4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM					<u></u>	
456745684569457045714571457245734573						
4568iii)To determine VOM emissions from inks used on letterpress4569printing lines at the source, an ink emission adjustment4570factor of 0.05 shall be used in calculating emissions from4571all non-heatset inks except when using an impervious4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM						<u>sourch are. (15(0) of and Subpart shall of abou,</u>
4569printing lines at the source, an ink emission adjustment4570factor of 0.05 shall be used in calculating emissions from4571all non-heatset inks except when using an impervious4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM					iii)	To determine VOM emissions from inks used on letterpress
4570factor of 0.05 shall be used in calculating emissions from4571all non-heatset inks except when using an impervious4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM					<u>111</u>	
4571all non-heatset inks except when using an impervious4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM						
4572substrate, and a factor of 0.80 shall be used in calculating4573emissions from all heatset inks to account for VOM						
4573 emissions from all heatset inks to account for VOM						
Element to the substrate event when them an impervision	4574					retention in the substrate except when using an impervious
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4578 4579 4580				to determine the amount of VOM emissions from the use of ink on the printing lines; and
4580 4581			iv)	To determine VOM emissions from cleaning solutions used
4582			<u>1v)</u>	on letterpress printing lines at the source, an emission
4583				<u>adjustment factor of 0.50 shall be used in calculating</u>
4584				emissions from used shop towels if the VOM composite
4585				vapor pressure of each associated cleaning solution is less
4586				than 10 mmHg measured at 20° C (68° F) and the shop
4587				towels are kept in closed containers. Otherwise, no
4588				retention factor is used;
4589				
4590		<u>C)</u>		cription and the results of all tests used to determine the
4591				content of inks and cleaning solvents, and a declaration that
4592				ch tests have been properly conducted in accordance with
4593 4594			Sectio	on 218.415(c)(1) of this Subpart;
4595		<u>D)</u>	Δe an	alternative to the calculations in subsection $(b)(1)(B)$ , a
4596		<u>D</u> ]		then that the source uses less than the amount of material
4597				$\hat{f}$ in subsections (b)(1)(D)(i) or (b)(1)(D)(ii), as applicable,
4598			-	g each calendar month. A source may determine that it emits
4599				6.8 kg/day (15 lbs/day) of VOM based upon compliance
4600				such material use limitations. If the source exceeds this
4601			amoui	nt of material use in a given calendar month, the owner or
4602			operat	tor must, within 15 days of the end of that month, complete
4603			the en	nissions calculations of subsection (b)(1)(B) to determine
4604				emissions for applicability purposes. If the source ever
4605				ds this amount of material use for six consecutive calendar
4606				ns, it is no longer eligible to use this subsection as an
4607			alterna	ative to the calculations in subsection $(b)(1)(B)$ .
4608			:)	
4609 4610			<u>i)</u>	The sum of all sheetfed and nonheatset web letterpress
4611				printing operations at the source: 242.3 liters (64 gallons) of cleaning solvent; or
4612				of cleaning solvent, of
4613			ii)	The sum of all heatset web letterpress printing operations at
4614			<u></u>	the source: 204.1 kg (450 lbs) of ink and cleaning solvent;
4615				
4616	<u>2)</u>	<u>For sc</u>	ources co	omplying with subsection (b)(1)(B) of this Section, notify the
4617				iting if the combined emissions of VOM from all letterpress
4618		printi	ng lines	(including inks and solvents used for cleanup operations
4619		associ	iated wit	th the letterpress printing lines) at the source ever equal or

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4620			excee	<u>d 6.8 kg/day (15 lbs/day), in the absence of air pollution control</u>
4621			equip	ment, within 30 days after the event occurs;
4622				
4623		<u>3)</u>	For so	purces complying with subsection (b)(1)(D) of this Section, comply
4624			<u>with t</u>	he following:
4625				
4626			<u>A)</u>	Maintain material use records showing that the source uses less
4627				than the amount of material specified in subsections (b)(1)(D)(i)
4628				and (b)(1)(D)(ii) during each calendar month, or, if the source
4629				exceeds the material use limitations, records showing that the
4630				source exceeded the limitations but did not emit 6.8 kg/day (15
4631				<u>lbs/day) or more of VOM;</u>
4632			-	
4633			<u>B)</u>	Notify the Agency in writing if the source exceeds the material use
4634				limitations for six consecutive calendar months, or if the source
4635				changes its method of compliance from subsection $(b)(1)(D)$ to
4636				subsection (b)(1)(B) of this Section, within 30 days after the event
4637				occurs.
4638 4639		I Inlog		wing with subsection (h)(1)(D) and (h)(2) of this Section on and
4639	<u>c)</u>		-	lying with subsection (b)(1)(D) and (b)(3) of this Section, on and
4641				2010, an owner or operator of a letterpress printing line subject to the in subsections (a) or (b) of this Section shall collect and record
4642		-		primation specified in subsection $(c)(1)$ or $(c)(2)$ of this Section for all
4643				inting lines at the source:
4644		<u>icticip</u>	1035 pm	inding lines at the source.
4645		<u>1)</u>	Standa	ard recordkeeping, including the following:
4646		<u>-</u> 7	Dunu	and recordscopping, monduling and romowing.
4647			A)	The name and identification of each letterpress ink and cleaning
4648			<b>Z</b>	solvent used on any letterpress printing line, recorded each month;
4649				
4650			<u>B)</u>	A daily record that shows whether a letterpress printing line at the
4651				source was in operation on that day;
4652				
4653			<u>C)</u>	The VOM content and the volume of each letterpress ink and
4654				cleaning solvent used on any letterpress printing line, recorded
4655				each month;
4656				
4657			<u>D)</u>	The total VOM emissions at the source each month, determined as
4658				the sum of the product of usage and VOM content for each
4659				cleaning solvent and letterpress ink (with the applicable ink VOM
4660				emission adjustment) used at the source, calculated each month;
4661				and
4662				

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4663		<u>E)</u>	The VOM emissions in lbs/day for the month, calculated in
4664			accordance with Section 218.417(b)(1)(B) of this Subpart;
4665			
4666		2) Purc	hase and inventory recordkeeping, including the following:
4667		<u> </u>	
4668		<u>A)</u>	The name, identification, and VOM content of each letterpress ink
4669			and cleaning solvent used on any letterpress printing line, recorded
4670			each month;
4671			
4672		<u>B)</u>	Inventory records from the beginning and end of each month
4673			indicating the total volume of each letterpress ink, and cleaning
4674			solvent to be used on any letterpress printing line at the source;
4675			
4676		<u>C)</u>	Monthly purchase records for each letterpress ink and cleaning
4677			solvent used on any letterpress printing line at the source;
4678			
4679		<u>D)</u>	A daily record that shows whether a letterpress printing line at the
4680			source was in operation on that day;
4681			
4682		<u>E)</u>	The total VOM emissions at the source each month, determined as
4683			the sum of the product of usage and VOM content for each
4684			cleaning solvent and letterpress ink (with the applicable ink VOM
4685			emission adjustment factor) used at the source, calculated each
4686			month based on the monthly inventory and purchase records
4687			required to be maintained pursuant to subsections $(c)(2)(A)$ ,
4688			(c)(2)(B), and $(c)(2)(C)$ of this Section; and
4689			
4690		<u>F)</u>	The VOM emissions in lbs/day for the month, calculated in
4691			accordance with Section 218.417(b)(1)(B) of this Subpart;
4692	1)		
4693	<u>d)</u>	Autor -	operator of a heatset web letterpress printing lines subject to the
4694			irements of Section 218.413(a)(1)(B) or (b)(1) of this Subpart shall
4695		comply with	the following:
4696 4607		1)	lay 1 2010 or upon initial start up of a new minting line which we
4697 4698			<u>1 Ay 1, 2010, or upon initial start-up of a new printing line, whichever</u> er, and upon initial start-up of a new control device for a heatset web
4698 4699			ing line, submit a certification to the Agency that includes the
4699 4700		*	wing:
4700 4701		10110	<u>will</u> <u>B</u> .
4701 4702		<u>A)</u>	An identification of each heatset web letterpress printing line at the
4702 4703			source;
4703 4704			<u>source</u> ,
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#### 3 JCAR350218-1001791r01 4705 B) A declaration that each heatset web letterpress printing line is in 4706 compliance with the requirements of Section 218.413 (a)(1) or (b) 4707 of this Subpart, as appropriate; 4708 4709 The type of afterburner or other approved control device used to C) 4710 comply with the requirements of Section 218.413(a)(1)(B) or (b)(1) of this Subpart, and the date that such device was first 4711 constructed at the subject source; 4712 4713 4714 <u>D)</u> The control requirements in Section 218.413(a)(1)(B) or (b)(1) of this Subpart with which the letterpress printing line is complying; 4715 4716 4717 E) The results of all tests and calculations necessary to demonstrate 4718 compliance with the control requirements of Section 4719 218.413(a)(1)(B) or (b)(1) of this Subpart, as applicable; and 4720 A declaration that the monitoring equipment required under 4721 F) Section 218.413(a)(1)(C) or (b) of this Subpart, as applicable, has 4722 4723 been properly installed and calibrated according to manufacturer's 4724 specifications; 4725 4726 2) If testing of the afterburner or other approved control device is conducted 4727 pursuant to Section 218.415(b) of this Subpart, the owner or operator shall, within 90 days after conducting such testing, submit a copy of all 4728 4729 test results to the Agency and shall submit a certification to the Agency 4730 that includes the following: 4731 4732 A) A declaration that all tests and calculations necessary to demonstrate whether the letterpress printing lines is in compliance 4733 with Section 218.413(a)(1)(B) or (b)(1) of this Subpart, as 4734 4735 applicable, have been properly performed; 4736 A statement whether the heatset web letterpress printing lines is or 4737 B) is not in compliance with Section 218.413(a)(1)(B) or (b)(1) of this 4738 4739 Subpart, as applicable; and 4740 The operating parameters of the afterburner or other approved 4741 <u>C</u>) control device during testing, as monitored in accordance with 4742 Section 218.416(a) or (b) of this Subpart, as applicable; 4743 4744 3) Except as provided in subsection (d)(3)(D) of this Section, collect and 4745 record daily the following information for each heatset web letterpress 4746

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4747			printin	ig line subject to the requirements of Section 218.413(a)(1)(B) or
4748			(b)(1)	of this Subpart:
4749				
4750			<u>A)</u>	Afterburner or other approved control device monitoring data in
4751				accordance with Section 218.416(a) or (b) of this Subpart, as
4752				applicable;
4753				
4754			<u>B)</u>	A log of operating time for the afterburner or other approved
4755				control device, monitoring equipment, and the associated printing
4756				<u>line;</u>
4757				
4758			<u>C)</u>	A maintenance log for the afterburner or other approved control
4759				device and monitoring equipment detailing all routine and non-
4760				routine maintenance performed, including dates and duration of
4761				any outages; and
4762				
4763			<u>D)</u>	A log detailing checks on the air flow direction or air pressure of
4764				the dryer and press room to ensure compliance with the
4765				requirements of Section 218.413(a)(1)(A) of this Subpart at least
4766				once per calendar month while the line is operating;
4767				
4768		<u>4)</u>		the Agency in writing of any violation of Section 218.413(a)(1)(B)
4769				1) of this Subpart within 30 days after the occurrence of such
4770				on. Such notification shall include a copy of all records of such
4771			<u>violati</u>	<u>on;</u>
4772		-	<b>TC</b> 1	
4773		<u>5)</u>		nging the method of compliance between Sections 218.413(a)(1)(B)
4774				8.413(b) of this Subpart, certify compliance for the new method of
4775			A	iance in accordance with Section 218.413(b) at least 30 days before
4776				g such change, and perform all tests and calculations necessary to
4777				istrate that such printing lines will be in compliance with the
4778 4779				ements of Section 218.413(a)(1) of this Subpart, or Section (3(b) of this Subpart, as applicable.
4779 4780			210.41	(50) of this Subpart, as appreable.
4780	e)	Forle	tternrea	s printing line cleaning operations, an owner or operator of a
4781	<u>e)</u>		*	nting line subject to the requirements of Section 218.413 of this
4782		<u> </u>	rt shall:	
4784		<u>540pa</u>	<u></u> 511 <del>411.</del>	
4785		<u>1)</u>	By Me	ay 1, 2010, or upon initial start-up of a new letterpress printing line,
4786		<u>+</u> /	-	ever is later, certify to the Agency that all cleaning solutions, other
4787				nose excluded pursuant to Section 218.412(b), and the handling of
4788				aning materials will be in compliance with the requirements of

4789 4790 4791			Section 218.413(a)(2)(A) or (a)(2)(B) and (a)(3) of this Subpart. Such certification shall include:			
4791 4792 4793 4794		<u>A)</u>		tement that the cleaning solution will comply with the tions in Section 218.413(a)(2);		
4795 4796 4797		<u>B)</u>		fication of the methods that will be used to demonstrate using compliance with the applicable limitations;		
4798 4799		<u>C)</u>		nple of the records that will be kept pursuant to Section 17(e)(2) of this Subpart; and		
4800 4801 4802		<u>D)</u>		cription of the practices that ensure that VOM-containing ng materials are kept in closed containers;		
4803 4804 4805	<u>2)</u>		Collect and record the following information for each cleaning solution used on each letterpress printing line:			
4806 4807 4808		<u>A)</u>	A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section			
4809 4810 4811			218.413(a)(2)(A) of this Subpart and that is prepared at the source with automatic equipment:			
4812 4813 4814			<u>i)</u> ii)	The name and identification of each cleaning solution; The VOM content of each cleaning solvent in the cleaning		
4815 4816			<u>11</u> ]	solution, as determined in accordance with Section 218.415(c) of this Subpart;		
4817 4818 4819 4820			<u>iii)</u>	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		
4821 4822 4823				changes to the proportion of cleaning solvent and water (or other non-VOM);		
4824 4825 4826			<u>iv)</u>	The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;		
4827 4828			<u>v)</u>	The VOM content of the as-used cleaning solution, with supporting calculations; and		
4829 4830 4831			<u>vi)</u>	<u>A calibration log for the automatic equipment, detailing periodic checks;</u>		

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4832				
4833	<u>B)</u>	For ea	ch batch of cleaning solution for which the owner or	
4834		operator relies on the VOM content to demonstrate compliance		
4835		with Section 218.413(a)(2)(A) of this Subpart, and that is not		
4836		prepar	ed at the source with automatic equipment:	
4837				
4838		<u>i)</u>	The name and identification of each cleaning solution;	
4839				
4840		ii)	Date and time of preparation, and each subsequent	
4841			modification, of the batch;	
4842				
4843		iii)	The VOM content of each cleaning solvent in the cleaning	
4844		<del></del>	solution, as determined in accordance with Section	
4845			218.415(c) of this Subpart;	
4846				
4847		iv)	The total amount of each cleaning solvent and water (or	
4848			other non-VOM) used to prepare the as-used cleaning	
4849			solution; and	
4850				
4851		<u>v)</u>	The VOM content of the as-used cleaning solution, with	
4852			supporting calculations. For cleaning solutions that are	
4853			used as purchased, the manufacturer's specifications for	
4854			VOM content may be used if such manufacturer's	
4855			specifications are based on results of tests of the VOM	
4856			content conducted in accordance with methods specified in	
4857			Section 218.105(a) of this Part;	
4858				
4859	<u>C)</u>	For ea	ch batch of cleaning solution for which the owner or	
4860		operator relies on the vapor pressure of the cleaning solution to		
4861			nstrate compliance with Section 218.413(a)(2)(B) of this	
4862		Subpa		
4863		<u>\$</u>		
4864		<u>i)</u>	The name and identification of each cleaning solution;	
4865		<i>_</i>		
4866		ii)	Date and time of preparation, and each subsequent	
4867			modification, of the batch;	
4868				
4869		iii)	The molecular weight, density, and VOM composite partial	
4870			vapor pressure of each cleaning solvent, as determined in	
4871			accordance with Section 218.415(e) of this Subpart. For	
4872			cleaning solutions that are used as purchased, the	
4873			manufacturer's specifications for VOM composite partial	
4874			vapor pressure may be used if such manufacturer's	

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4875					specifications are based on results of tests conducted in
4876					accordance with methods specified in Sections 218.105(a)
4877					and 218.110 of this Part;
4878				• 、	
4879				<u>iv)</u>	The total amount of each cleaning solvent used to prepare
4880					the as-used cleaning solution; and
4881				``	
4882				<u>v)</u>	The VOM composite partial vapor pressure of each as-used
4883					cleaning solution, as determined in accordance with Section
4884					218.415(e) of this Subpart. For cleaning solutions that are
4885					used as purchased, the manufacturer's specifications for
4886					<u>VOM composite partial vapor pressure may be used if such</u>
4887 4888					manufacturer's specifications are based on results of tests
4888 4889					conducted in accordance with methods specified in
4889					Sections 218.105(a) and 218.110 of this Part;
4890			<u>D)</u>	The d	ate, time, and duration of scheduled inspections performed to
4892			$\underline{D}$		m the proper use of closed containers to control VOM
4892					ions, and any instances of improper use of closed containers,
4893					lescriptions of actual practice and corrective action taken, if
4895					descriptions of actual practice and corrective action taken, II
4896				<u>any;</u>	
4897			<u>E)</u>	The a	mount of cleaning materials used on letterpress printing lines
4898			<u>1_</u> ]		source that do not comply with the cleaning material
4899					tions set forth in Section 218.413(a)(2) of this Subpart;
4900				<u>1111114</u>	$\frac{10013}{300} \frac{300}{10101} \frac{1000}{1000} \frac{1000}{21000} \frac{1000}{2100} \frac{1000}{2100} \frac{1000}{21000} \frac{1000}{21000} \frac{1000}{21000} \frac{1000}{21000} \frac{1000}{21000} \frac{1000}{2100} \frac{1000}{2100} \frac{1000}{210$
4901		<u>3)</u>	Notif	v the Ad	gency in writing of any violation of Section 218.413 of this
4902		<u></u>			in 30 days after the occurrence of such violation. Such
4903			-		hall include a copy of all records of such violation.
4904			<u>1101111</u>	oution 5	han mondo a copy of an records of such violation.
4905	<u>f)</u>	The c	wner o	r operato	or shall maintain all records required by this Section at the
4906	<u>~1</u>			*	n period of three years and shall make all records available to
4907				pon req	
4908			<u> </u>		
4909	(Sou	rce: Ad	ded at 3	4 Ill. Re	eg, effective)