

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Organic Material Emission Standards and Limitations for the Metro East Area

2) Code Citation: 35 Ill. Adm. Code 219

3) Section Numbers: Proposed Action:

219.106	Amend
219.181	Amend
219.187	New
219.204	Amend
219.205	Amend
219.207	Amend
219.210	Amend
219.211	Amend
219.212	Amend
219.217	Amend
219.401	Amend
219.402	Amend
219.403	Amend
219.404	Amend
219.405	Amend
219.406	Repeal
219.407	Amend
219.408	Repeal
219.409	Amend
219.410	Amend
219.411	Amend
219.412	New
219.413	New
219.415	New
219.416	New
219.417	New

4) Statutory Authority: 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) A complete description of the subjects and issues involved: 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, first-notice 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) Published studies or reports, and sources of underlying data, used to compose this 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 Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 1993.

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

<u>Section Numbers:</u>	<u>Proposed Action:</u>	<u>Illinois Register Citation</u>
219.106	Amend	33 Ill. Reg. 16460; November 20, 2009
219.204	Amend	33 Ill. Reg. 16460; November 20, 2009
219.205	Amend	33 Ill. Reg. 16460; November 20, 2009
219.207	Amend	33 Ill. Reg. 16460; November 20, 2009
219.210	Amend	33 Ill. Reg. 16460; November 20, 2009
219.211	Amend	33 Ill. Reg. 16460; November 20, 2009
219.212	Amend	33 Ill. Reg. 16460; November 20, 2009
219.218	Add	33 Ill. Reg. 16460; November 20, 2009

- 11) Statement of Statewide Policy Objectives: This proposed rulemaking 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) Time, Place and Manner in which interested persons may comment on this proposed rulemaking: 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.

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.

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- 13) Initial regulatory flexibility analysis:
- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: 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) Reporting, bookkeeping or other procedures required for compliance: 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 make reports as required.
 - C) Types of professional skills necessary for compliance: 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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STATE OF ILLINOIS
Pollution Control Board

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

PART 219

ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS
FOR THE METRO EAST AREA

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219.110 Vapor Pressure of Organic Material or Solvent
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219 APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing

219 APPENDIX B VOM Measurement Techniques for Capture Efficiency (Repealed)

219 APPENDIX C Reference Methods and Procedures

219 APPENDIX D Coefficients for the Total Resource Effectiveness Index (TRE) Equation

219 APPENDIX E List of Affected Marine Terminals

219 APPENDIX G TRE Index Measurements for SOCOM Reactors and Distillation Units

219 APPENDIX H Baseline VOM Content Limitations for Subpart F, Section

219.212 Cross-Line Averaging

AUTHORITY: Implementing Section 10 and authorized by Sections ~~27, 27~~ and 28 and ~~29, 5~~ of the Environmental Protection Act [415 ILCS 5/10, 27, and 28].

SOURCE: Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883, effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May 24, 1993, for a maximum of 150 days; amended in R93-9 at 17 Ill. Reg. 16918, effective September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg. 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385, effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996; amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-~~098~~ at 34 Ill. Reg. _____, effective ~~_____~~.

SUBPART A: GENERAL PROVISIONS

Section 219.106 Compliance Dates

- a) Except as provided in subsection (b) or (c) below, compliance with the requirements of this Part is required by May 15, 1992, consistent with the provisions of Section 219.103 of this Part.
- b) As this Part is amended from time to time, compliance dates included in the specific Subparts supersede the requirements of this Section except as limited by Section 219.101(b) of this Subpart.
- c) Any owner or operator of a source subject to the requirements of Section 219.204(o) of this Part shall comply with the requirements in Section 219.204(o), as well as all applicable requirements in Sections 219.205 through 219.211, 219.214, and ~~219.217~~, 219.217 by May 1, 2010.

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

SUBPART E: SOLVENT CLEANING

Section 219.181 Solvent Cleaning Degreasing ~~Operations in General~~ Operations

The requirements of Sections 219.182, 219.183, 219.184, and 219.186 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 _____)

~~_____ (Source: Amended at 34 Ill. Reg. _____, effective _____)~~

Section 219.187 Other Industrial Solvent Cleaning Operations

a) Applicability. On and after April 1, 2011:

1) 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 219.182, 219.183, or 219.184;

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;
- ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;
- iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal 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 solvent-borne fluoropolymer coatings;
- xii) Cleaning of ultraviolet or electron beam adhesive application;
- xiii) Cleaning of sterilization indicating ink application equipment if the facility uses no more than 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):

1) The VOM content of the as-used cleaning solutions (minus water and any compounds ~~which~~that are specifically exempted from the definition of VOM) does not exceed the following emissions limitations:

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

	kg/l	lb/ gal <u>gali</u>)	Electrical
apparatus components and electronic components	0.10		0.83
ii) Medical device and pharmaceutical manufacturing	0.80	6.7	
B) Repair and maintenance cleaning:			

kg/l	lb/ gal <u>gali</u>)	Electrical apparatus components	and electronic
components	0.10	0.83	pharmaceutical
manufacturing:		iii) Medical device and pharmaceutical tools, equipment, and machinery	0.80 6.7
iii) Medical device and pharmaceutical manufacturing:		general work surfaces	0.60 5.0
C) Cleaning of ink application equipment:			

kg/l	lb/ gal <u>gali</u>)	Rotogravure printing	that does not print flexible
packaging	0.10	0.83	iii) Screen printing
0.50	4.2	iii) Ultraviolet ink and electron beam ink application equipment, except screen printing	0.65 5.4
Flexographic printing that does not print flexible packaging	0.10	0.83	iv)

D kg/l	lb/ gal <u>D</u>)	All other cleaning operations not	kg/l
lb/gal		subject to a specific limitation in	
subsections (b)(1)(A) through		(b)(1)(C) of this Section	
0.050	0.42		

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

3) 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.

1) The owner or operator of a source exempt from the limitations of this Section because of the criteria in Section 219.187(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 219.187(a)(1);

ii) 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 ~~method(s)~~methods that will be used to demonstrate continuing compliance with the applicable limitations;

vi) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.187(d); and

vii) A description of each cleaning operation exempt pursuant to Section 219.187(a)(2), if any, and a listing of the emission ~~unit(s)~~units on which the exempt cleaning operation is performed;

B) At least 30 calendar days before changing the method of compliance between subsections (b)(1) or (b)(2) and subsection (b)(3) of this Section, notify the Agency in writing of such change. ~~Such~~The notification shall include a demonstration of compliance with the newly applicable subsection;

3) 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;

iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;

v) The VOM content of the as-used cleaning solution, with supporting calculations; and

vi) A calibration log for the automatic equipment, detailing periodic checks;

B) For each batch of cleaning solution ~~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 219.105(a) of this Part;
- 4) 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 219.110 of this Part;
 - D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;
- 5) 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 219.187(f) of this Subpart has been properly installed and calibrated according to manufacturer's specifications;
 - B) If testing of an emissions control system is conducted pursuant to Section 219.187(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:
 - i) A declaration that all tests and calculations necessary to demonstrate compliance with Section 219.187(b)(3) of this Subpart have been properly performed;
 - ii) A statement whether the subject cleaning operation is or is not in compliance with Section 219.187(b)(3) of this Subpart; and
 - iii) The operating parameters of the emissions control system during testing, as monitored in accordance with Section 219.187(f) of this Subpart;

C) Collect and record daily the following information for each cleaning operation subject to the requirements of Section 219.187(b)(3) of this Subpart:

i) Emissions control system monitoring data in accordance with Section 219.187(f) of this Subpart, as applicable;

ii) A log of operating time for the emissions control system, monitoring equipment, and ~~the~~ associated cleaning equipment;

iii) A maintenance log for the emissions control system and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages;

D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records 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;

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;

6) All sources subject to the requirements of subsections (b) and (d) of this Section shall notify the Agency of any violation of ~~subsections~~ subsection (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;

7) 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.

1) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.187(b)(3) of this Subpart shall:

A) Install, calibrate, operate, and maintain temperature monitoring ~~device(s)~~ devices with an accuracy of 30 C or 50 F on the emissions control system in accordance with Section 219.105(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 ~~device(s)~~ devices, 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 219.187(b)(3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's s or

operator's plan approved by the Agency and USEPA pursuant to Section 219.187(b) (3).

g) Testing Requirements.

1) 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 ~~such~~the testing to allow the Agency to be present during ~~such~~the testing;

2) Testing to demonstrate compliance with the VOM content limitations in Section 219.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted~~7~~ as follows:

A) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used~~7~~i provided, however, Method 24, incorporated by reference in Section 219.112 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 219.105(a) of this Part~~7~~i provided, however, Method 24 shall be used to determine compliance;

3) 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 219.110 of this Part;

4) For afterburners and carbon adsorbers, the methods and procedures of Section 219.105(d) through (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.187(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 219.112 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 219.112 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 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

i) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;

ii) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; 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 219.187(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 219.187(b)(3) of this Subpart.

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

SUBPART F: COATING OPERATIONS

Section 219.204 Emission Limitations

Except as provided in Sections 219.205, 219.207, 219.208, 219.212, 219.215 and 219.216 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 219.204(l) and 219.204(o), 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 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.211(c) of this Subpart except where noted. (Note: The equation presented in Section 219.206 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) Automobile or Light-Duty Truck Coating kg/11b/gal) Prime

coat 0.14 (1.2) 0.14 * (1.2) * 2) Primer surface coat 1.81 (15.1) 1.81 * (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 surface operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b) and the recordkeeping and reporting

requirements specified in Section 219.211(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 219.205 does not apply to the primer surface limitation.)

~~kg/llb/gal~~3) Topcoat ~~kg/llb/gal~~3) Topcoat 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 219.105(b) of this Part and the recordkeeping and reporting requirements specified in Section 219.211(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 219.205 of this Part does not apply to the topcoat limitation.)

~~kg/llb/gal~~4) Final repair ~~coat~~ ~~kg/llb/gal~~0.58 (4.8) 0.58*(4.8)*

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

~~kg/llb/gal~~c) Paper ~~Coating~~ ~~Coating~~ ~~kg/llb/gal~~0.35 (2.9) 0.28*(2.3)*

(Note: The 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 219.401~~ ~~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.)

~~kg/llb/gal~~d) Coil ~~Coating~~ ~~Coating~~ ~~kg/llb/gal~~0.31 (2.6) 0.20*(1.7)*

e) Fabric Coating 0.35 (2.9) 0.28*(2.3)*
f) Vinyl Coating 0.45 (3.8) 0.28*(2.3)*
g) Metal Furniture Coating 1) Air dried 0.36 (3.0) 0.34*(2.8)* 2) Baked 0.36 (3.0) 0.28*(2.3)*
h) Large Appliance Coating 1) Air dried 0.34 (2.8) 0.34*(2.8)* 2) Baked 0.34 (2.8) 0.28*(2.3)*

(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.)

~~kg/llb/gal~~i) Magnet Wire ~~Coating~~ ~~Coating~~ ~~kg/llb/gal~~0.20 (1.7) 0.20*(1.7)*

j) Miscellaneous Metal Parts and Products Coating 1) Clear coating 0.52 (4.3) 0.52*(4.3)* 2) Extreme performance ~~coating~~ ~~coating~~ A) Air dried 0.42 (3.5) 0.42*(3.5)* B) Baked 0.42 (3.5) 0.40*(3.3)* 3) Steel pail and drum interior coating 0.52 (4.3) 0.52*(4.3)* 4) All other ~~coatings~~ ~~coatings~~ A) Air ~~Dried~~ ~~dried~~ 0.42 (3.5) 0.40*(3.3)* B) Baked 0.36 (3.0) 0.34*(2.8)* 5) Metallic ~~Coating~~ ~~Coating~~ A) Air ~~Dried~~ ~~dried~~ 0.42 (3.5) 0.42*(3.5)* B) Baked 0.36 (3.0) 0.36 (3.0)* 6)

For purposes of subsection 219.204(j) (5) of this Section, "metallic coating" means a coating which contains more than 1/4 lb/gal of metal particles, as applied.

k) Heavy Off-Highway Vehicle Products Coating ~~kg/llb/gal~~1) Extreme performance prime coat 0.42 (3.5) 0.42*(3.5)* 2) Extreme performance topcoat (air dried) 0.42

(3.5)0.42*(3.5)*3)Final repair coat (air dried)0.42(3.5)0.42*(3.5)*4) All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above.

1) Wood Furniture Coating: Limitations before March 15, 1998:kg/11b/galA)Clear topcoat0.67(5.6)B)Opaque stain0.56(4.7)C)Pigmented coat0.60(5.0)D)Repair coat0.67(5.6)E)Sealer0.67(5.6)F)Semi-transparent stain0.79(6.6)G)Wash coat0.73(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 solidslb VOM/lb solidsA)Topcoat0.8(0.8)B)Sealers and topcoats with the following limits:i)Sealer other than acid-cured alkyd amino vinyl sealer1.9(1.9)ii)Topcoat other than acid-cured alkyd amino conversion varnish topcoat1.8(1.8)iii)Acid-cured alkyd amino vinyl sealer2.3(2.3)iv)Acid-cured alkyd amino conversion varnish topcoat2.0(2.0)C) Meet the provisions of Section 219.215 of this Subpart for use of an averaging approach;D) Achieve a reduction in emissions equivalent to the requirements of Section 219.204(1)(2)(A) or (B) of this Subpart, as calculated using Section 219.216 of this Subpart; ~~or~~E) Use a combination of the methods specified in Section 219.204(1)(2)(A) through (D) of this Subpart.3) Other wood furniture coating limitations on and after March 15, 1998:kg/11b/galA)Opaque stain0.56(4.7)B)Non-topcoat pigmented coat0.60(5.0)C)Repair coat0.67(5.6)D)Semi-transparent stain0.79(6.6)E)Wash coat0.73(6.1)4) Other wood furniture coating requirements on and after March 15, 1998:A) 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 219.217 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 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 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; ~~and~~iii) ~~and~~ii) Maintain these records at the source for a period of three years.

m)Plastic Parts Coating: Automotive/Transportationkg/11b/gal1) ~~Interiors~~
A) ~~Baked~~ ~~Interiors~~A) ~~Baked~~ Color coat0.49*(4.1)*ii)Primer0.46*(3.8)*B)Air ~~Dried~~ ~~dried~~ Color coat0.38*(3.2)*ii)Primer0.42*(3.5)*2)Exteriors (flexible and non-flexible)A) ~~Baked~~ ~~Baked~~ Primer0.60*(5.0)*ii)Primer non-flexible0.54*(4.5)*iii)Clear coat0.52*(4.3)*iv)Color coat0.55*(4.6)*B)Air ~~Dried~~ ~~Dried~~ Primer0.66*(5.5)*ii)Clear coat0.54*(4.5)*iii)Color coat (red & black)0.67*(5.6)*iv)Color coat (others)0.61*(5.1)*3) ~~Specialty~~A) ~~Specialty~~A) Vacuum

metallizing basecoats, texture basecoats 0.66*(5.5)*B) Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings 0.71*(5.9)*C) Gloss reducers, vacuum metallizing topcoats, and texture topcoats 0.77*(6.4)*D) Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings 0.82*(6.8)*E) Head lamp lens coatings 0.89*(7.4)*

n) Plastic Parts Coating: Business Machine kg/1lb/gal) Primer 0.14*(1.2)*2) Color coat (non-texture coat) 0.28*(2.3)*3) Color coat (texture coat) 0.28*(2.3)*4) Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings 0.48*(4.0)*5) Specialty ~~Coatings~~ ~~Coatings~~ Soft coat 0.52*(4.3)*B) Plating resist 0.71*(5.9)*C) Plating sensitizer 0.85*(7.1)*

o) Flat Wood Paneling Coatings. On and after May 1, 2010, flat wood paneling coatings shall comply with one of the following limitations: 1) 0.25 kg VOM/l of coatings (2.1 lb VOM/gal coatings); or 2) 0.35 kg VOM/l solids (2.9 lb VOM/gal solids).

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

Section 219.205 Daily-Weighted Average Limitations

No owner or operator of a coating line subject to the limitations of Section 219.204 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), or (h) of this Section (depending upon the category of coating) through the applicable coating analysis test methods and procedures specified in Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.211(d) of this Subpart:

a) No owner or operator of a coating line subject to only one of the limitations from among Section 219.204(a)(1), (a)(4), (c), (d), (e), (f), ~~(g)~~, (i), or (o) of this Subpart shall apply coatings on any such coating line, during any day, whose daily-weighted average VOM content exceeds the emission limitation to which the coatings are subject.

b) No owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 219.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(j) of this Subpart during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(j) of this Subpart, during the same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

c) No owner or operator of a can coating line subject to the limitations of Section 219.204(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 219.204(b) of this Subpart unless all of the following requirements are met:

1) An alternative daily emission limitation for the can coating operation, i.e., for all of the can coating lines at the source, shall be determined according to subsection (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.

where:

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

where:

A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day); i = Subscript denoting a specific coating applied; n = Total number of surface coatings applied in the can coating operation; C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); D_i = The density of VOM in each coating applied. For the purposes of calculating A_d , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (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 219.204(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).

d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 219.204(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) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(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

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(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'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 219.204(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)(1) or (e)(2) of this Section, in addition to the requirements specified in the note to Section 219.204(1)(1) of this Subpart, are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(1)(1) or (1)(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

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(1)(1) or (1)(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.

f) No owner or operator of a plastic parts coating line subject to the limitations of Section 219.204(m) or (n) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(m) or (n) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(m) or (n) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

g) No owner or operator of a metal furniture coating line subject to the limitations of Section 219.204(g) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(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 219.204(g) of this Subpart, during the

same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

h) No owner or operator of a large appliance coating line subject to the limitations of Section 219.204(h) 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 219.204(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 219.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

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

Section 219.207 Alternative Emission Limitations

a) Any owner or operator of a coating line subject to Section 219.204 of this Subpart may comply with this Section, rather than with Section 219.204 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 subsection (c), (d), (e), (f), (g), (h), (i), ~~(j)~~, or (k) 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 219.105 of this Part and the recordkeeping and reporting requirements specified in Section 219.211(e) of this Subpart; and the control device is equipped with the applicable monitoring equipment specified in Section 219.105(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), or (k) of this Section may be used as an alternative to compliance with Section 219.204 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 219.204 of this Subpart. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption

scrubber system can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. Baseline transfer efficiencies and transfer efficiency test methods must be approved by the Agency and the USEPA. Such overall efficiency is to be determined as follows:

A) Obtain the emission limitation from the appropriate subsection in Section 219.204 of this Subpart;

B) Calculate "S" according to the equation in Section 219.206 of this Subpart;

C) Calculate the overall efficiency required according to Section 219.105(e) of this Part. For the purposes of calculating this value, according to the equation in Section 219.105(e)(2) of this Part, VOM1 is equal to the value of "S" 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 219.204(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 219.204(a)(2) or (a)(3) of this Part 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 219.105(b) of this Part.

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 219.204(j) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l [3.5 lbs/gal]), and 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 219.204(k) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l [3.5 lbs/gal]), and 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 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 219.204(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 Section, then the provisions in the note to Section 219.204(l) of this Subpart must also be met.

g) No owner or operator of a can coating line ~~and~~ equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (g)(1) or (g)(2) of this Section are met.

1) An alternative daily emission limitation for the can coating operation, i.e. for all of the can coating lines at the source, shall be determined according to Section 219.205(c)(2) of this Subpart. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated by use of the following equation:

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

where:

E_d = Actual VOM emissions for the day in units of kg/day (lbs/day); i = Subscript denoting the specific coating applied; n = Total number of surface coatings as applied in the can coating operation; V_i = Volume of each coating as applied for the day in units of gal/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (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.

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

h) 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 219.204(m) or (n) 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.

i) 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 219.204(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.

j) 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 219.204(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.

k) 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) 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 219.210 Compliance Schedule

Every owner or operator of a coating line (of a type included within Section 219.204 of this Subpart) shall comply with the requirements of Section 219.204, 219.205, 219.207 or 219.208 and Section 219.211 or Sections 219.212 and 219.213 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 219.204 of this Subpart because of the criteria in Section 219.208(a) or (b) of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.211(b) of this Subpart.

b) No owner or operator of a coating line complying by means of Section 219.204 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.204 and 219.211(c) of this Subpart.

c) No owner or operator of a coating line complying by means of Section 219.205 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.205 and 219.211(d) of this Subpart.

d) No owner or operator of a coating line complying by means of Section 219.207 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.207 and 219.211(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 219.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 219.204, 219.205 or 219.207 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 219.204, or the alternative control options in Sections 219.205 or 219.207 and the requirements of Section 219.211.

f) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 219.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 219.212 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 219.212 and 219.213 of this Subpart.

g) No owner or operator of a coating line subject to the emission limitations contained in Section 219.204(o) of this Subpart shall operate ~~said~~that coating line on or after a date consistent with Section 219.106(c) of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.204(o) or the alternative control options in Section 219.205 or 219.207, and the requirements of Sections 219.211 and 219.217 of this Subpart, as applicable.

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

Section 219.211 Recordkeeping and Reporting

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 219.105 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 219.204 of this Subpart because of Section 219.208(a) or (b) of this Subpart shall comply with the following:

1) For sources exempt from Section 219.208(a) of this Subpart, by a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or 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 219.208(a) of this Subpart. Such certification shall include:

A) A declaration that the coating line is exempt from the limitations of Section 219.204 of this Subpart because of Section 219.208(a) of this Subpart; and

B) Calculations which demonstrate that the combined VOM emissions from the coating line and all other coating lines in the same category 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:

where:

T_e = 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 219.104 of this Part (because they belong to the same category, e.g., can coating); j = Subscript denoting an individual coating line; n = Number of different coatings as applied each day on each coating line; i = Subscript denoting an individual coating; A_i = Weight of VOM per volume of each coating (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); B_i = 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) For sources exempt under Section 219.208(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 219.208(b) of this Subpart. Such certification shall include:

A) A declaration that the source is exempt from the limitations of Section 219.204(1) of this Subpart because of Section 219.208(b) of this Subpart; and

B) Calculations which demonstrate that the source meets the criteria of exemption because of Section 219.208(b) of this Subpart.

3) For sources exempt under Section 219.208(a) of this Subpart, on and after a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of 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.

4) For sources exempt under Section 219.208(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) 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 219.106 of this Part, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 219.204 of this Subpart because of Section 219.208(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 219.204(1) of this Subpart because of Section 219.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 219.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.

c) Any owner or operator of a coating line subject to the limitations of Section 219.204 of this Subpart other than Section 219.204(a)(2) and (a)(3) of this Subpart and complying by means of Section 219.204 of this Subpart shall comply with the following:

1) By a date consistent with Section 219.106 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 219.205, Section 219.207, Section 219.215, or Section 219.216 of this Subpart to Section 219.204 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 219.204 of this Subpart on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:

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

B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; ~~and~~

C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(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 219.204(o) 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 219.106 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:

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;

C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(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 limitation of Section 219.204(1)(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 219.204(o) 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 219.106 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 219.204 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.

B) At least 30 calendar days before changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d)(1) or (e)(1) below, respectively. Upon changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 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 219.204 of this Subpart and complying by means of Section 219.205 of this Subpart shall comply with the following:

1) By a date consistent with Section 219.106 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 219.204 or Section 219.207 to Section 219.205 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 219.205 on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:

A) The name and identification number of each coating line which will comply by means of Section 219.205 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 219.204(1)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.

E) For coating lines subject to the limitations of Section 219.204(o) of this Subpart, the weight of VOM per volume of coatings or solids, as applicable, as applied each day on each coating line.

~~FEF~~) 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.

2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial ~~start-up~~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:

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

B) The weight of VOM per volume and the volume of each coating (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 219.204(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.

D) For coating lines subject to the limitations of Section 219.204(o) 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 219.104 of this Part.

3) On and after a date consistent with Section 219.106 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 219.205 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.

B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart, 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 this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart, 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 coating line subject to the limitations of Section 219.207 and complying by means of Section 219.207(c), (d), (e), (f), (g), ~~ex~~(h), or (k) of this Subpart shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or upon initial ~~startup~~start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 219.204 or Section 219.205 to Section 219.207 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 219.207 of this Subpart on and after a date consistent with Section 219.106 of this Part, or on and after the initial ~~startup~~start-up date.

2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial ~~startup~~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:

A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 219.207(b)(2) of this Subpart.

B) Control device monitoring data.

C) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line.

D) A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

3) On and after a date consistent with Section 219.106 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 219.207 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.

B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 219.207 to Section 219.204 or Section 219.205 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 Part from Section 219.207 to Section 219.204 or Section 219.205 of this Subpart, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.

f) Any owner or operator of a primer surfacer operation or topcoat operation subject to the limitations of Section 219.204(a)(2) or (a)(3) of this Subpart shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or upon initial ~~startup~~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 219.204 of this Subpart on and after a date consistent with Section 219.106 of this Part, or on and after the initial ~~startup~~start-up date. Such certification shall include:

A) The name and identification number of each coating operation which will comply by means of Section 219.204(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 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each topcoat or primer surfacer coating operation and maintain the information at the source for a period of three years:

A) 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 219.204(a) (2) or (a) (3) of this Subpart including:

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

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.

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 219.106 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 219.204(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.

4) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:

A) Any record showing a violation of Section 219.204(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.

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.

g) On and after a date consistent with Section 219.106(c) 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 219.217 of this Subpart shall comply with the following:

- 1) 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 Sections 219.217(c) and 219.217(d) of this Subpart; and
- 2) Notify the Agency of any violation of Section 219.217 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 219.212 Cross-Line Averaging to Establish Compliance for Coating Lines

- a) On and after March 15, 1996, any owner or operator of a coating line subject to the limitations set forth in Section 219.204 of this Subpart, except coating lines subject to the limitations in Section 219.204(o) 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 219.204, 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 219.204 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 219.212, 219.213, or 219.214 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 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 219.204 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:

- 1) The replacement line is operated as a powder coating line;
- 2) The replacement line was added after July 1, 1988; and
- 3) The owner or operator also includes as a participating coating line 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:

- 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 (E_d) shall never exceed the alternative daily emission limitation (A_d) and shall be calculated by use of the following equation:

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

where:

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

- A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A_1) shall be determined for all such participating non-powder coating lines on a daily basis as follows:

$$A_1 = \sum_{i=1}^n V_i L_i (D_i - C_i)$$

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~~ by all participating coating lines at the source; C_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); D_i = The density of VOM in each coating applied. For the purposes of calculating ~~A_i~~ , A_i , the density is 0.882 kg VOM/1 1 VOM (7.36 lbs VOM/gal VOM); V_i = 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_i = and L_i = The VOM emission limitation for each coating applied, as specified in Section 219.204 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~~ emissions 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:

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

where:

~~_____~~ A_p = A_i = The VOM emissions allowed for the day in units of kg/day (lbs/day); h = Subscript denoting a specific powder coating line; j = Subscript denoting a specific powder coating applied;
 m = Total number of participating powder coating lines; n = Total number of powder coatings applied in the participating coating lines; D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM); V_j = Volume of each powder coating consumed for the day in units of 1 (gal) of coating; L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 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); ~~_____ and _____~~ K = 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 219.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Tests methods and recordkeeping requirements shall be approved by the Agency and USEPA and 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~~ or K cannot exceed 2.0 for recycled powder coating systems.

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

Section 219.217 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 219.204(1) of this Subpart shall not use compounds containing more than 8.0 percent, by weight, of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, 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 219.204(1) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (b)(1) through (4) of this Section:

1) To apply coating materials that have a VOM content 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:

A) 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 219.216 of this Subpart.

~~ebc~~) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 219.204(1) or 219.204(o) of this Subpart shall:

1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;

2) Pump or drain all organic solvent used for line cleaning into closed containers;

3) Collect all organic solvent used to clean spray guns in closed containers; and

4) Control emissions from washoff operations by using closed tanks.

d) Additional cleaning and storage requirements for flat wood paneling coating lines. Every owner or operator of a source subject to the limitations of Section 219.204(o) of this Subpart shall:

- 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials and clean up spills immediately;
- 2) Minimize emissions of VOM during the cleaning of storage, mixing, and conveying equipment; and
- 3) Keep mixing vessels ~~which~~that contain VOM-containing coatings and other VOM-containing materials closed except when specifically in use.

~~e) Application equipment requirements. No owner or operator of a source subject to the limitations of Section 219.204(1) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (c)(1) through (4) of this Section.~~

~~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:~~

~~A) 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 219.216 of this Subpart.~~

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

SUBPART H: PRINTING AND PUBLISHING

Section 219.401 Flexographic and Rotogravure Printing

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 219.105(a) and the recordkeeping and reporting requirements specified in Section 219.404(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~~.

1) Prior to May 1, 2010, either:

A) Forty percent VOM by volume of the coating and ink (minus water and any compounds which are specifically exempted from the definition of VOM) ~~7.1~~ or

B) ~~2)~~ Twenty-five percent VOM by volume of the volatile content in the coating and ink, and ~~+~~

2) On and after May 1, 2010:

A) For owners or 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) 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.

~~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 Averaging Alternative averaging alternative.

1) Prior to May 1, 2010, ~~no~~no owner or operator of a subject flexographic ~~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) of this Section). Compliance with this subsection must be demonstrated through the applicable coating or ink analysis test methods and procedures specified in Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.404(d) of this Part.

A~~±~~) 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 .

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

~~Where:~~

where:

VOM(i)(A)=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; Ci = 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); Li = The liquid volume of each coating or ink as applied in units of l (gal); Vsi = The volume fraction of solids in each coating or ink as applied; VVOMi = The volume fraction of VOM in each coating or ink as applied.

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 in subsection (a) ~~(121)~~ (B) of this Section.

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

~~Where:~~

where:

VOM(i) (B) = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day; i = Subscript denoting a specific coating or ink as applied; n = The number of different coatings and/or inks as applied each day on ~~each~~ a printing line; Ci = ~~Ci~~ - 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); VVMi = The volume fraction of volatile matter in each coating or ink 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) (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 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.404(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 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.404(d) of this Subpart.

A) 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.

$$\begin{array}{r}
 \text{VOM(A)} = \frac{\sum_{i=1}^n C_i W_i}{\sum_{i=1}^n W_i}
 \end{array}$$

~~Where:~~
where:

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

$$\begin{array}{r}
 \text{VOM(B)} = \frac{\sum_{i=1}^n C_i L_i}{\sum_{i=1}^n L_i}
 \end{array}$$

~~Where:~~
where:

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

c) Capture System and Control Device Requirements.

1) Prior to May 1, 2010, ~~no~~no owner or operator of a subject flexographic, ~~packaging rotogravure or publication~~or rotogravure printing line equipped with a capture system and control device shall operate the subject printing line unless the owner or operator meets the requirements in subsection (c)(1)(A), (c)(1)(B) ~~(2)~~, or (c) ~~(13)~~1 (C), as well as ~~and~~ subsections (c) ~~(14)~~1 (D), (c)(5), and (c)(6) ~~below~~.

A1 One of:

~~i)~~ 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

~~C3iii)~~ An alternative VOM emission reduction system is used ~~which~~that is demonstrated to have at least a 90 percent control device efficiency, approved by the Agency and approved by USEPA as a SIP revision~~;~~ and

~~D4B)~~ The printing line is equipped with a capture system and control device that provides an overall reduction in VOM emissions of at least:

~~iA)~~ 75 percent where a publication rotogravure printing line is employed, or

~~iBii)~~ 65 percent where a packaging rotogravure printing line is employed, or

~~iiiCiii)~~ 60 percent where a flexographic printing line is employed~~;~~ and

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 (c) (1) (A), (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 (c) (5) and (c) (6) of this Section and the capture system and control device provides an overall reduction in VOM emissions of at least:

A) 65 percent in cases ~~wherein~~which a subject printing line was first constructed at the subject source prior to March 14, ~~1995, 1995~~ and utilizes a control device that was first constructed at the subject source prior to January 1, 2010; or

B) 70 percent ~~where~~when a subject printing line was first constructed at the subject source prior to March 14, ~~1995, 1995~~ and utilizes a control device that was first constructed at the subject source on or after January 1, 2010; or

C) 75 percent ~~where~~when a subject printing line was first constructed at the subject source on or after March 14, ~~1995, 1995~~ and utilizes a control device that was first constructed at the subject source prior to January 1, 2010; or

D) 80 percent ~~where~~when a subject printing line was first constructed at the subject source on or after March 14, ~~1995, 1995~~ and utilizes a control device that was first constructed at the subject source on or after January 1, 2010;

4) 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 (c)(1)(D) or subsection (c)(3) of this Section, whichever is more stringent, as well as subsections (c)(5) and (c)(6) of this Section;

5) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and, except as provided in Section 219.105(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 219.105(c) of this Part through Section 219.105(f) of this Part and by complying with the recordkeeping and reporting requirements specified in Section 219.404(e) of this Part. The owner or operator of a printing line subject to the requirements in Section 219.401(c)(2) or 219.401(c)(1)(D) of this Section that performed all testing necessary to demonstrate compliance with Section 219.401(c)(1)(D) prior to May 1, 2010, is not required to retest pursuant to this subsection (c)(6). The owner or operator of a printing line subject to the requirements in Section 219.401(c)(3) shall perform testing in compliance with this subsection (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 (c)(6), however, shall limit the Agency's ability to require that the owner or operator perform testing pursuant to ~~Section~~35 Ill. Adm. Code 201.282:

A) On or after May 1, 2000, the owner or operator of the subject printing line performed all testing necessary to demonstrate compliance with Section 219.401(c)(1)(D);

B) Such testing also demonstrated an overall control efficiency equal to or greater than the applicable control efficiency requirements in Section 219.401(c)(3);

C) The owner or operator submitted the results of such ~~test(s)~~tests to the Agency, and the ~~test(s) was~~tests were not rejected by the Agency;

D) The same capture system and control device subject to the tests referenced in subsection (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 219.404(e)(1)(B) ~~+~~.

d) No owner or operator of subject flexographic or rotogravure printing ~~line(s)~~lines 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 ~~line(s)~~lines to be kept, stored, or disposed of in any manner other than in closed containers, or conveyed from one location to another in any manner other than in closed containers or pipes, except when specifically in use.

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

Section 219.402 Applicability

a) Except as otherwise provided in Section 219.401, ~~the~~~~The~~~~the~~ limitations of Section 219.401 of this ~~Subpart~~~~Part~~~~Subpart~~ apply to all flexographic and rotogravure printing lines at a subject source. All sources with flexographic and/or rotogravure printing lines are subject sources unless:

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 never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices, or

2) A federally enforceable permit or SIP revision for all flexographic and rotogravure printing ~~line(s)~~lines at a source requires the owner or operator to limit production or capacity of these printing ~~line(s)~~lines to reduce total VOM emissions from all flexographic and rotogravure printing ~~line(s)~~lines to 90.7 Mg (100 tons) or less per calendar year before the application of capture systems and control devices.

b) The limitations of Section 219.401(d) shall apply to all owners or operators of flexographic or rotogravure printing line(s) 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 line(s)), in the absence of air pollution control equipment.

~~ebc~~) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet Subpart G (Sections 219.301 or 219.302 of this Part). Flexographic and rotogravure printing lines exempt from this Subpart are subject to Subpart G (Sections 219.301 or 219.302 of this Part). Rotogravure or flexographic equipment used for both roll printing and paper coating is subject to this Subpart.

~~ed~~) Once subject to the limitations of Section 219.401 of this Part, a flexographic or rotogravure printing line is always subject to the limitations of Section 219.401 of this Part.

~~eds~~) Any owner or operator of any flexographic or rotogravure printing line that is exempt from any of the limitations of Section 219.401 of this Part because of the criteria in this Section is subject to the recordkeeping and reporting requirements specified in Section 219.404(b) and (f) of this Part, as applicable.

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

Section 219.403 Compliance Schedule

Every owner or operator of a flexographic and/or rotogravure printing line shall comply with the applicable requirements of Section 219.401 and Section 219.404 of this Part in accordance with the applicable compliance ~~schedule(s)~~schedulelesspecified 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 219.401 of this Part because of the criteria in Section 219.402(a) of this Part shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.404(b) of this Part.

b) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 219.401(a)(1) of this Part shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.401(a)(1) of this Part and Section 219.404(c) of this Part.

c) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 219.401(b)(1) of this Part shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.401(b)(1) and Section 219.404(d) of this Part.

d) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 219.401(c)(1)(D) of this Part shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, the applicable provisions in Sections 219.401(c) and ~~Section~~ 219.404(e) of this Part.

e) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 219.401(a)(2), (b)(2), or (b)(3) or complying by means of Section 219.401(c)(2), (c)(3), or (c)(4), shall operate ~~said the~~ printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 219.401(a)(2), (b)(2) or (b)(3), and Section 219.401(c), as applicable, and all applicable provisions in Section 219.404 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 ~~said the~~ printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 219.401(d) and Section 219.404(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 ~~which that~~ is exempt from the limitations of Section 219.401(d) because of the criteria in Section 219.402(b) of this Part shall operate ~~said the~~ printing line on or after May 1, 2010, unless the owner or operator has complied with, and continues to comply with, Section 219.402(b) and Section 219.404(f) of this Part.

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

Section 219.404 Recordkeeping and Reporting

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 219.105 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 219.401 of this Part because of the criteria in Section 219.402(a) of this Part shall comply with the following:

1) By a date consistent with Section 219.106 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 ~~or and~~ 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 219.402(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 219.401 because of Section 219.402(a) of this Part ~~7.1~~ 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_p = Total maximum theoretical emissions of VOM from one flexographic or ~~rotogravure printing~~ 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 ~~kg/kg~~ kg/kg/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.

2) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a facility 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.

3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a facility exempted from the limitations of Section 219.401 of this Part because of the criteria in Section 219.402(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 219.401 of this Part and complying by means of Section 219.401(a) of this Part shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(b) or Section 219.401(c) to Section 219.401(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 219.401(a) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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:

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

B) The VOM content of each coating and ink as applied each day on each printing line.

2) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401 of this Part and complying by means of Section 219.401(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) The name and identification number of each coating and ink as applied on each printing line.

B) The VOM content of each coating and ink as applied each day on each printing line.

3) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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.

B) At least 30 calendar days before changing the method of compliance with Section 219.401 of this Part from Section 219.401(a) to Section 219.401(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 219.401 of this Part from Section 219.401(a) to Section 219.401(b) or (c) of this Part, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.

d) Any owner or operator of a printing line subject to the limitations of Section 219.401 of this Part and complying by means of Section 219.401(b) of this Part shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(a) or (c) to Section 219.401(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 219.401(b) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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 219.401(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 instrument or method by which the owner or operator will accurately measure or calculate 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 219.106 of this Part, or Section 219.403(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 219.401 and complying by means of Section 219.401(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 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.

3) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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 219.401 of this Part from Section 219.401(b) to Section 219.401(a) or 219.401(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 219.401 of this Part from Section 219.401(b) to Section 219.401(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 219.401 of this Part and complying by means of Section 219.401(c) of this Part shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(a) or (b) to Section 219.401(c) of this Part, the owner or operator of the subject printing line shall either:

A) ~~Pperform~~Perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with Section 219.401(c) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(e), as applicable, or on and after the initial start-up date; or ~~r~~

B) If not required to perform such testing pursuant to Section 219.401(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 219.401(c)(6);

ii) The ~~date(s)~~dates that testing demonstrating compliance with Section 219.401(c)(3) was performed; and

iii) The ~~date(s)~~dates that the results of such testing were submitted to the Agency ~~r~~.

2) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401 of this Part and complying by means of Section 219.401(c) of this Part shall collect and record all of the following information each day for each printing line and maintain the information at the facility for a period of three years:

A) Control device monitoring data.

B) A log of operating time for the capture system, control device, monitoring equipment and the associated printing line.

C) A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.

3) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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 219.401 of this Part from Section 219.401(c) to Section 219.401(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 219.401 of this Part from Section 219.401(c) to Section 219.401(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 219.401(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 ~~which~~that is exempt from the limitations of Section 219.401(d) because of the criteria in Section 219.402(b) shall:

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 declaration that the source is exempt from the requirements in Section 219.401(d) because of the criteria in Section 219.402(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 219.401(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 219.401(d); and

2) Notify the Agency of any violation of Section 219.401(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 219.405 Lithographic Printing: Applicability

~~a) Until March 15, 1996, the limitations of Section 219.406 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:~~
Every owner or operator of lithographic printing lines

~~1) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations 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 219.406 of this Subpart because of the criteria in subsection (a) of this Section shall be subject to the recordkeeping and reporting requirements in Section 219.406(b)(1) of this Subpart.~~
~~ac) On and after March 15, 1996, Everyevery owner or operator of lithographic printing line(s) is subject to the recordkeeping and reporting requirements in Section 219.411 of this Subpart.~~

~~bd) On and after March 15, 1996, b) Prior to May 1, 2010, Sections 219.407 through 219.410 of this Subpart shall apply to:~~

1) All owners or operators of heatset web offset lithographic printing ~~line(s)~~lines unless:

A) Total maximum theoretical emissions of VOM from all heatset web offset lithographic printing lines (including solvents used for cleanup operations associated with heatset web offset lithographic printing lines) at the source

never exceed 90.7 Mg (100 tons) per calendar year before the application of capture systems and control devices. To determine a source's total maximum theoretical emissions of VOM for the purposes of this subsection, the owner or operator shall use the calculations set forth in Section 219.411(a)(1)(C) ~~406(b)(1)(A)(ii)~~ of this Subpart; or

B) Federally enforceable permit conditions or SIP revision for all heatset web offset lithographic printing ~~line(s) lines~~ at the source requires the owner or operator to limit production or capacity of these printing ~~line(s) lines~~ to total VOM emissions of 90.7 Mg/yr (100 TPY) or less, before the application of capture systems and control devices;

2) All owners or operators of ~~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 219.411(a)(1)(B), before the application of capture systems and control devices.

c) On and after May 1, 2010:

1) The requirements in ~~Sections~~Section 219.407(a)(1)(B) through (a)(1)(E) and 219.407(b) and all applicable provisions in Sections 219.409 through 219.411 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 219.411(b)(2)(B), before the application of capture systems and control devices;

2) The requirements in ~~Sections~~Section 219.407(a)(1)(A) and 219.407(a)(2) through (a)(5) and all applicable provisions in Sections 219.409 through 219.411 of this Subpart shall apply to all owners or operators of 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 equal or exceed 6.8 kg/day (15 lbs/day), calculated in accordance with Section 219.411(b)(1)(B), before the application of capture systems and control devices;

3) Notwithstanding subsection (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 219.411(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 219.411(g)(1)(B) that the source will not make use of any such exclusions:

A) The requirements of ~~Sections~~Section 219.407(a)(1)(A), 219.407(a)(2), and 219.407(a)(3) of this Subpart shall not apply to lithographic printing ~~line(s) lines~~ with a total fountain solution reservoir of less than 3.8 liters (1 gallon);

B) The requirements of Section 219.407(a)(3) of this Subpart shall not apply to sheet-fed offset lithographic printing ~~line(s)~~lines with maximum sheet size of 11x17 inches or smaller;

C) The requirements of Section 219.407(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 219.407(a)(4)(A)(i) shall not apply to lithographic printing lines at the source. Instead, the requirements of Section 219.407(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 219.406 or~~Section 219.407 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 219.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior 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 219.405(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 219.105(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 equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment 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 219.105 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 219.405(a) of this Subpart shall comply with the following:~~

~~A) By a date consistent with Section 219.106 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 219.405(a) of this Subpart. Such certification shall include:~~

~~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 219.405(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/l (lb/gal) of solids;—~~

~~B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/yr (gal/yr). The 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);—~~

~~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/l (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 219.106 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 219.106 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 219.405(a) of this Subpart shall notify the Agency of any record showing 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 219.106 of this Part, or upon initial start up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(2) to (a)(1) of this Section, perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start up date;~~

~~B) On and after a date consistent with Section 219.106 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 non-routine maintenance performed including dates and duration of any outages;~~

~~C) On and after a date consistent with Section 219.106 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;~~

~~ii) 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~~

~~iii) 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 219.106 of this Part, or upon initial 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 Agency and the USEPA the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(2) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start up date;~~

~~B) On and after a date consistent with Section 219.106 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~~

~~iii) A maintenance log for the control device detailing all routine and non-routine maintenance performed including dates and duration of any outages;~~

~~C) On and after a date consistent with Section 219.106 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;~~

~~ii) Any record showing a violation of subsection (a)(2) 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~~

~~iii) 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) of this Section.~~

~~e) 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 219.405(a) of this Subpart shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.405(a) and 219.406(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 219.106 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 219.106 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 219.407 Emission Limitations and Control Requirements for Lithographic Printing Lines ~~On and After March 15, 1996~~

a) ~~On and after March 15, 1996, no~~~~owner~~Noowner 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 ~~weight~~volume~~weight~~;

ii) 3 percent or less, by ~~weight~~volume~~weight~~, and the temperature of the fountain solution is maintained below 15.6° C (60° F), measured at the reservoir or the fountain tray; or

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

B) The air pressure in the dryer is maintained lower than the air pressure of the press room, 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 219.410(c) of this ~~Subpart is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated, and maintained according to manufacturer's specifications at all times when the afterburner is in use,~~ and Subpart; and

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 219.107 of this Part;

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

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

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

B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by ~~weight/volume~~ weight, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;

4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:

A) The VOM content of the as-used cleaning solution is less than or equal to:

i) 30 percent, by weight; or

ii) On and after May 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 219.405(c)(3) and do not certify pursuant to Section 219.411(g)(1)(B) that the source will not make use of any of the exclusions in Section 219.405(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° C (68° F);

5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored or disposed of in any manner other than in closed containers, except when specifically in use.

b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of Section 219.407(a)(1)(C) of this Subpart may use a control device other than an afterburner, if:

1) The control device reduces VOM emissions from the press dryer ~~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;

ii) By at least 95 percent, by weight, for control devices first 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 219.408 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 219.407 of this Subpart shall comply with the applicable requirements of Sections 219.407 through 219.411 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 219.407 of this Subpart because of the criteria in Section 219.405(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 219.405(d) and 219.411(a) of this Subpart.~~

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

Section 219.409 Testing for Lithographic Printing ~~On and After March 15, 1996~~

a) Testing to demonstrate compliance with the requirements of Section 219.407 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 219.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.407(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 219.112 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 219.112 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 219.112 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 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

4) Notwithstanding the criteria or requirements in Method 25 ~~which specifies~~ that 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 ~~line(s)~~lines 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 219.407(a)(1)(B) of this Subpart.

c) Testing to demonstrate compliance with the VOM content limitations in Section 219.407(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 219.411(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:

1) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 219.112 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 219.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.

d) Testing to demonstrate compliance with the requirements of Section 219.407(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 219.407(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 219.110 of this Part.

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

~~(Source: Amended at 34 Ill. Reg. ____, effective ____)~~

Section 219.410 Monitoring Requirements for Lithographic Printing

a) Fountain Solution Temperature.

1) The owner or operator of any lithographic printing ~~line(s)~~lines 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 1eC° C or 2eF° F, and must be attached to an automatic, continuous recording device such as a strip chart, recorder, or computer, with at least the same accuracy, that is installed, calibrated and maintained in 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 line(s) subject to Section 219.407(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 219.411(~~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:

i) 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

ii) With a conductivity meter if it is demonstrated that a refractometer and hydrometer cannot distinguish between compliant and noncompliant fountain solution for the type and amount of VOM in the fountain solution. A source may use a conductivity meter if it demonstrates that both hydrometers and refractometers fail to provide significantly different measurements for standard solutions containing 95 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 219.411(~~eee~~) (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 219.407(a)(1)(C) of this Subpart shall:

1) 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 219.105(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

2) 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 219.407(b) of this Subpart.

e) ~~Cleaning Solution-~~

1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 219.407(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 219.407(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 219.411(~~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 219.407(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 219.411(~~fdf~~) (2) (C) of this Subpart.

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

Section 219.411 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 219.407 of this Subpart prior to May 1, 2010, because of the criteria in Section 219.405(~~bdb~~) of this Subpart, shall comply with the following:

1) ~~By March 15, 1996, Upon~~Upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:

A) A declaration that the source is exempt from the control requirements in Section 219.407 of this Part because of the criteria in Section 219.405(~~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;

ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 219.409(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 line(s) 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 219.406(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:-

where:

~~E_p~~ ~~E_d~~ = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lb/yr); A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal) of solids; B = Total volume of

solids for all inks that can potentially be applied each year on the printing line in units of 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; C = Weight of VOM per volume of fountain solution with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal); D = The total volume of fountain solution that can potentially be used each year on the printing line in units of 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; 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 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 219.409(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 219.405(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 ~~line(s)~~lines exempt from the limitations in Section 219.407 of this Subpart because of the criteria in Section 219.405(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) ~~r~~ 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)(B) shall also comply with the requirements in 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)(F) of this Section:

A) A declaration that the source is exempt from the requirements in Section 219.407 of this Part because of the criteria in Section 219.405(c)(2) of this Subpart;

B) Calculations ~~which that~~ 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:

i) To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were in operation;

ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the test methods and procedures set forth in Section 219.409(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 ~~line(s)~~ 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°C (68°F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20°C (68°F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used;

C) 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 ~~subsections~~ subsection (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).

i) The sum of all sheetfed and nonheatset web offset lithographic printing operations at the source: 242.3 liters (64 gallons) of cleaning solvent and fountain solution additives, combined; or

ii) The sum of all heatset web offset lithographic printing operations at the source: 204.1 kg (450 lbs) of ink, cleaning solvent, and fountain solution additives, combined.

D) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 219.409(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:

i) 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;

ii) Notify the Agency in writing if the source exceeds the material use limitations for six consecutive calendar months, or if the source changes its method of compliance from subsection (b)(1)(C) to subsection (b)(1)(B) of this Section, within 30 days after the event occurs;

2) Heatset web offset lithographic printing lines exempt pursuant to Section 219.405(c)(1) but not exempt pursuant to Section 219.405(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 219.407 of this Subpart pursuant to the criteria in Section 219.405(c)(1) of this Subpart, but that are not exempt pursuant to the criteria in Section 219.405(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 219.407 of this Part because of the criteria in Section 219.405(c)(1) of this Subpart, but is not exempt pursuant to the criteria in Section 219.405(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 219.405(c)(3), in accordance with Section 219.411(g)(2)(A)(i)):

i) To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were in operation;

ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the ~~teststest~~ methods and procedures set forth in Section 219.409(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~~;

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

C) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 219.409(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 ~~line(s) lines~~ 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) ~~(a)(2)(A) or (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;

BiiB) A daily record which shows whether a lithographic printing line at the source was in operation on that day;

CiiiC) 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

~~EivE)~~ The VOM emissions in lbs/day for the month, calculated in accordance with Section ~~219.411~~218.411 (a) (1) (B), 219.411(b) (1) (B), or 219.411(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;

~~CiiiC)~~ 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;

~~EivE)~~ 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~~

~~FviE)~~ The VOM emissions in lbs/day for the month, calculated in accordance with Section 219.411(a) (1) (B), 219.411(b) (1) (B), or 219.411(b) (2) (B) of this Subpart, as applicable; ~~and~~

~~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.~~

~~dbd)~~ An owner or operator of a heatset web offset lithographic printing ~~line(s)~~lines subject to the control requirements of Section 219.407(a) (1) (C) or (b) (1) of this Subpart shall comply with the following:

1) By May 1, 2010, ~~March 15, 1996~~, 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 219.407 (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 219.407(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 219.407(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 219.407(a) (1) (C) or (b) (1) of this Subpart, as applicable; and

F) A declaration that the monitoring equipment required under Section 219.407(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 219.409(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 ~~line(s)~~ lines is in compliance with Section 219.407(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 219.407(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 219.410(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 219.407(a) (1) (C) or (b) (1) of this Subpart:

A) Afterburner or other approved control device monitoring data in accordance with Section 219.410(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 ~~ensure~~ insure ~~ensure~~ compliance with the requirements of Section 219.407(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;

4) ~~On and after March 15, 1996, Notify~~Notify the Agency in writing of any violation of Section 219.407(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 219.407 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 219.407(a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) of this Subpart, or Section 219.407(b) of this Subpart, as applicable.

~~eee)~~ An owner or operator of a lithographic printing line subject to Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart, shall:

1) 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 219.407(a)(1)(A), (a)(2), or (a)(3), as applicable; ~~The VOM content limitation with which each fountain solution will comply;~~

D) Initial documentation that each type of fountain solution will comply with the applicable VOM content ~~limitation(s)~~limitations, 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 219.411(~~eee~~) (2) of this Subpart.

2) ~~On and after March 15, 1996, Collect~~Collect and record the following information for each fountain solution:

A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing ~~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 219.410(b)(1)(B), to demonstrate compliance with the applicable VOM content limit in Section 219.407(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 219.410(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 219.410(b)(1)(A) of this Subpart, for each batch of as-applied fountain solution:

i) Date and time of preparation and each subsequent modification of the batch;

ii) Volume or weight, as applicable, and VOM content of each component used in, or subsequently added to, the fountain solution batch;

iii) Calculated VOM content of the as-applied fountain solution; and

iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 219.407(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 219.410(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's specifications; and

~~iii~~iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Sections 219.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart, as specified in the source's operating permit.

E) If the owner or operator relies on the temperature of the fountain solution to comply with the requirements in Section 219.407(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 219.410(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 219.407 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 219.407 of this Subpart, or changing the method of demonstrating compliance with the VOM content limitations for fountain solutions pursuant to Section 219.409 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 such printing line(s) will be in compliance with the applicable requirements of Section 219.407 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 219.407 of this Subpart shall:

1) By May 1, 2010, ~~March 15, 1996,~~ 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 219.405(c)(3)(C), and the handling of all cleaning materials, will be in compliance with the requirements of Section 219.407(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;~~

~~ABA) A statement that the cleaning solution will comply with the limitations in Section 219.407(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;

~~CEC)~~ A sample of the records that will be kept pursuant to Section 219.411(~~fdf~~) (2) of this Subpart; and

~~DFD)~~ A description of the practices that ~~ensure~~ assure ensure that VOM-containing cleaning materials are kept in closed containers;

2) ~~On and after March 15, 1996, Collect~~ collect Collect and record the following information for each cleaning solution used on each lithographic printing line:

A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(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;
- ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.409(c) of this Subpart;
- iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
- v) The VOM content of the as-used cleaning solution, with supporting calculations; and
- vi) A calibration log for the automatic equipment, detailing periodic checks;

B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(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 219.409(c) of this Subpart;
- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(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 219.407(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 219.409(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 219.105(a) and 219.110 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 219.409(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 219.105(a) and 219.110 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, Notify~~Notify the Agency in writing of any violation of Section 219.407 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 219.407(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 219.407(a)(4) of this Subpart.~~

g) The owner or operator of lithographic printing ~~line(s)~~lines subject to one or more of the exclusions set forth in Section 219.405(c)(3) shall:

1) 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 219.405(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 219.405(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 219.405(c)(3);

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 219.405(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 219.411(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 219.407(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 219.405(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 ~~line(s)~~ lines will be in compliance with the applicable requirements of Section 219.407 of this Subpart.

4) If changing from opting out of the exclusions set forth in Section 219.405(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.

heh) 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 219.405 of this Subpart, sources may use the following emission adjustment factors (for Annual Emissions Reports or permit limits, for example):

1) A factor of 0.80 may be used 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.

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:

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

Where: _____

where:

VOM_{tot} = Total VOM in the fountain solution; ~~VOM_{fs} = Total number of coatings applied in the can coating operation, i.e. all can coating lines at the source;~~ VOM_{fs} = VOM emitted from the fountain solution; DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0; 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 ~~line(s) lines~~ 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) and the shop towels are kept in closed containers. To determine VOM emissions from automatic blanket wash solution with a VOM composite vapor pressure of less than 10 mmHg measured at 20°C (68°F), an emission adjustment factor may be used to account for carryover into the dryer, except when using an impervious substrate. The VOM emitted from the automatic blanket wash solution shall be calculated using the following equation:

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

Where: _____
where:

VOM_{tot} = Total VOM in the blanket wash; VOM_{bw} = VOM emitted from the blanket wash; DE = Destruction efficiency of the control device on the associated dryer, in decimal form (i.e., 95% control is represented as 0.95). If no control device is present, DE = 0; 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 219.412 Letterpress Printing Lines: Applicability

a) Except as provided in subsection (b) of this Section, on and after May 1, 2010, the limitations in Sections 219.413 through 219.416 of this Subpart shall apply to:

1) All heatset web letterpress printing ~~line(s) lines~~ at a source if all heatset web letterpress printing ~~line(s) lines~~ (including solvents used for cleanup operations associated with heatset web letterpress printing ~~line(s) lines~~) 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 ~~line(s) lines~~ at a source where the combined emissions of VOM from all letterpress printing ~~line(s) lines~~ at the source (including solvents used for cleanup operations associated with the letterpress printing ~~line(s) lines~~) ever equal or exceed 6.8 kg/day (15 lbs/day), in the

absence of air pollution control equipment, calculated in accordance with Section 219.417(b) (1) (B).

b) Notwithstanding subsection (a) of this Section, the requirements of Section 219.413(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 source.

c) On and after May 1, 2010, the recordkeeping and reporting requirements in Section 219.417 of this Subpart shall apply to all owners or operators of letterpress printing ~~line(s)~~ lines.

d) If a letterpress printing line at a source is or becomes subject to one or more of the limitations in Section 219.413 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 219.413 Emission Limitations and Control Requirements for Letterpress Printing Lines

a) No owner or operator of letterpress printing ~~line(s)~~ lines 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 219.412(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 ~~exhaust(s)~~ exhausts 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 219.416(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 219.107 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°C (68°F);

3) Cause or allow VOM-containing cleaning materials, including used cleaning towels, associated with any letterpress printing line to be kept, stored, or disposed of in any manner other than in closed containers, except when specifically in use.

b) An owner or operator of a heatset web letterpress printing line subject to the requirements of subsection (a)(1)(B) of this Section may use a control device other than an afterburner, if:

1) The control device reduces VOM emissions from the press dryer ~~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 219.415 Testing for Letterpress Printing Lines

a) Testing to demonstrate compliance with the requirements of Section 219.413 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 219.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.413(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 219.112 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 219.112 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 219.112 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 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

4) 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 ~~line(s)~~ lines 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 219.413(a)(1)(A) of this Subpart.

c) Testing to demonstrate compliance with the VOM content limitations in Section 219.413(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 219.417(b)(1)(B) of this Subpart), shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:

1) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 219.112 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 219.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.

d) Testing to demonstrate compliance with the requirements of Section 219.413(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 219.413(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 219.110 of this Part.

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

Section 219.416 Monitoring Requirements for Letterpress Printing Lines

a) 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 219.413(a)(1)(B) of this Subpart shall:

1) Install, calibrate, maintain, and operate temperature monitoring ~~device(s)~~ devices with an accuracy of 30 C or 50 F on the afterburner in accordance with Section 219.105(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

2) 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.

b) Other ~~Control Devices for Heatset Web Letterpress Printing Line(s)~~ control devices for heatset web letterpress printing lines. If a control device other than an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to this Subpart 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 219.413(b) of this Subpart.

c) Cleaning ~~Solutions~~ solution.

1) The owner or operator of any letterpress printing line relying on the VOM content of the cleaning solution to comply with Section 219.413(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 219.413(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 219.417(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 219.413(a)(2)(B) of this Subpart must keep records for such cleaning solutions used on any such ~~line(s)~~ lines as set forth in Section 219.417(e)(2)(C) of this Subpart.

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

Section 219.417 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 219.413 of this Subpart because of the criteria in Section 219.412(a)(1) shall submit a certification to the Agency that includes:

1) A declaration that the source is exempt from the requirements in Section 219.413 of this Subpart because of the criteria in Section 219.412(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 219.413 of this Subpart because of the criteria in Section 219.412(a)(2) shall:

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:

A) A declaration that the source is exempt from the control requirements in Section 219.413 of this Part because of the criteria in Section 219.412(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:

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;

ii) To determine the VOM content of the inks and cleaning solvents, the tests methods and procedures set forth in Section 219.415(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 ~~line(s) 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°C (68°F) and the shop towels are kept in closed containers. Otherwise, no retention factor is used;

C) A description and the results of all tests used to determine the VOM content of inks and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 219.415(c) (1) of this Subpart;

D) 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 ~~subsections~~ subsection (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 this alternative 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:

~~iiA)~~ 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 ~~which~~that 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 219.417(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 ~~which~~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 219.417(b)(1)(B) of this Subpart;

d) An owner or operator of a heatset web letterpress printing ~~line(s)~~ lines subject to the control requirements of Section 219.413(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:

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 219.413 (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 219.413(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 219.413(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 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable; and

F) A declaration that the monitoring equipment required under Section 219.413(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 219.415(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 ~~line(s)~~ lines is in compliance with Section 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable, have been properly performed;

B) A statement whether the heatset web letterpress printing ~~line(s)~~ lines is or is not in compliance with Section 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable; and

C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 219.416(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 219.413(a)(1)(B) or (b)(1) of this Subpart:

A) Afterburner or other approved control device monitoring data in accordance with Section 219.416(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 219.413(a)(1)(A) of this Subpart at least once per calendar month while the line is operating;

4) Notify the Agency in writing of any violation of Section 219.413(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 219.413(a)(1)(B) and 219.413(b) of this Subpart, certify compliance for the new method of compliance in accordance with Section 219.413(b) 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 219.413(a)(1) of this Subpart, or Section 219.413(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 219.413 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 219.412(b), and the handling of all cleaning materials will be in compliance with the requirements of Section 219.413(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 219.413(a)(2);

B) Identification of the method(s) methods 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 219.417(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 219.413(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;
- ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.415(c) of this Subpart;
- iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
- v) The VOM content of the as-used cleaning solution, with supporting calculations; and
- vi) A calibration log for the automatic equipment, detailing periodic checks;

B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.413(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 219.415(c) of this Subpart;
- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(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 219.413(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 219.415(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 219.105(a) and 219.110 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 219.415(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 219.105(a) and 219.110 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 219.413(a)(2) of this Subpart;

3) Notify the Agency in writing of any violation of Section 219.413 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 _____)

~~ILLINOIS REGISTER~~




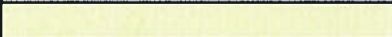

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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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Deletions	571
Moved from	1
Moved to	1
Style change	0
Format changed	0
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1ST NOTICE VERSION
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- 120 219.422 Inspection Program Plan for Leaks
- 121 219.423 Inspection Program for Leaks
- 122 219.424 Repairing Leaks
- 123 219.425 Recordkeeping for Leaks
- 124 219.426 Report for Leaks
- 125 219.427 Alternative Program for Leaks
- 126 219.428 Open-Ended Valves
- 127 219.429 Standards for Control Devices
- 128 219.430 Compliance Date (Repealed)
- 129 219.431 Applicability

- 130 219.432 Control Requirements
- 131 219.433 Performance and Testing Requirements
- 132 219.434 Monitoring Requirements
- 133 219.435 Recordkeeping and Reporting Requirements
- 134 219.436 Compliance Date

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SUBPART R: PETROLEUM REFINING AND
RELATED INDUSTRIES; ASPHALT MATERIALS

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139 Section

140 219.441 Petroleum Refinery Waste Gas Disposal

141 219.442 Vacuum Producing Systems

142 219.443 Wastewater (Oil/Water) Separator

143 219.444 Process Unit Turnarounds

144 219.445 Leaks: General Requirements

145 219.446 Monitoring Program Plan for Leaks

146 219.447 Monitoring Program for Leaks

147 219.448 Recordkeeping for Leaks

148 219.449 Reporting for Leaks

149 219.450 Alternative Program for Leaks

150 219.451 Sealing Device Requirements

151 219.452 Compliance Schedule for Leaks

152 219.453 Compliance Dates (Repealed)

153

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

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155

156 Section

157 219.461 Manufacture of Pneumatic Rubber Tires

158 219.462 Green Tire Spraying Operations

159 219.463 Alternative Emission Reduction Systems

160 219.464 Emission Testing

161 219.465 Compliance Dates (Repealed)

162 219.466 Compliance Plan (Repealed)

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SUBPART T: PHARMACEUTICAL MANUFACTURING

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166 Section

167 219.480 Applicability

168 219.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum

169 Dryers

170 219.482 Control of Air Dryers, Production Equipment Exhaust Systems and Filters

171 219.483 Material Storage and Transfer

172 219.484 In-Process Tanks

- 173 219.485 Leaks
- 174 219.486 Other Emission Units
- 175 219.487 Testing
- 176 219.488 Monitoring for Air Pollution Control Equipment
- 177 219.489 Recordkeeping for Air Pollution Control Equipment

178
179 SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

- 180
- 181 Section
- 182 219.500 Applicability for Batch Operations
- 183 219.501 Control Requirements for Batch Operations
- 184 219.502 Determination of Uncontrolled Total Annual Mass Emissions and Actual
- 185 Weighted Average Flow Rate Values for Batch Operations
- 186 219.503 Performance and Testing Requirements for Batch Operations
- 187 219.504 Monitoring Requirements for Batch Operations
- 188 219.505 Reporting and Recordkeeping for Batch Operations
- 189 219.506 Compliance Date
- 190 219.520 Emission Limitations for Air Oxidation Processes
- 191 219.521 Definitions (Repealed)
- 192 219.522 Savings Clause
- 193 219.523 Compliance
- 194 219.524 Determination of Applicability
- 195 219.525 Emission Limitations for Air Oxidation Processes (Renumbered)
- 196 219.526 Testing and Monitoring
- 197 219.527 Compliance Date (Repealed)

198
199 SUBPART W: AGRICULTURE

- 200
- 201 Section
- 202 219.541 Pesticide Exception

203
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- 205
- 206 Section
- 207 219.561 Architectural Coatings
- 208 219.562 Paving Operations
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210
211 SUBPART Y: GASOLINE DISTRIBUTION

- 212
- 213 Section
- 214 219.581 Bulk Gasoline Plants
- 215 219.582 Bulk Gasoline Terminals

- 216 219.583 Gasoline Dispensing Operations – Storage Tank Filling Operations
- 217 219.584 Gasoline Delivery Vessels
- 218 219.585 Gasoline Volatility Standards
- 219 219.586 Gasoline Dispensing Operations – Motor Vehicle Fueling Operations (Repealed)

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221 SUBPART Z: DRY CLEANERS

222

223 Section

- 224 219.601 Perchloroethylene Dry Cleaners (Repealed)
- 225 219.602 Exemptions (Repealed)
- 226 219.603 Leaks (Repealed)
- 227 219.604 Compliance Dates (Repealed)
- 228 219.605 Compliance Plan (Repealed)
- 229 219.606 Exception to Compliance Plan (Repealed)
- 230 219.607 Standards for Petroleum Solvent Dry Cleaners
- 231 219.608 Operating Practices for Petroleum Solvent Dry Cleaners
- 232 219.609 Program for Inspection and Repair of Leaks
- 233 219.610 Testing and Monitoring
- 234 219.611 Exemption for Petroleum Solvent Dry Cleaners
- 235 219.612 Compliance Dates (Repealed)
- 236 219.613 Compliance Plan (Repealed)

237

238 SUBPART AA: PAINT AND INK MANUFACTURING

239

240 Section

- 241 219.620 Applicability
- 242 219.621 Exemption for Waterbase Material and Heatset-Offset Ink
- 243 219.623 Permit Conditions
- 244 219.624 Open-Top Mills, Tanks, Vats or Vessels
- 245 219.625 Grinding Mills
- 246 219.626 Storage Tanks
- 247 219.628 Leaks
- 248 219.630 Clean Up
- 249 219.636 Compliance Schedule
- 250 219.637 Recordkeeping and Reporting

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252 SUBPART BB: POLYSTYRENE PLANTS

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254 Section

- 255 219.640 Applicability
- 256 219.642 Emissions Limitation at Polystyrene Plants
- 257 219.644 Emissions Testing

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259 SUBPART FF: BAKERY OVENS

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261 Section

- 262 219.720 Applicability (Repealed)
- 263 219.722 Control Requirements (Repealed)
- 264 219.726 Testing (Repealed)
- 265 219.727 Monitoring (Repealed)
- 266 219.728 Recordkeeping and Reporting (Repealed)
- 267 219.729 Compliance Date (Repealed)
- 268 219.730 Certification (Repealed)

269

270 SUBPART GG: MARINE TERMINALS

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272 Section

- 273 219.760 Applicability
- 274 219.762 Control Requirements
- 275 219.764 Compliance Certification
- 276 219.766 Leaks
- 277 219.768 Testing and Monitoring
- 278 219.770 Recordkeeping and Reporting

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280 SUBPART HH: MOTOR VEHICLE REFINISHING

281

282 Section

- 283 219.780 Emission Limitations
- 284 219.782 Alternative Control Requirements
- 285 219.784 Equipment Specifications
- 286 219.786 Surface Preparation Materials
- 287 219.787 Work Practices
- 288 219.788 Testing
- 289 219.789 Monitoring and Recordkeeping for Control Devices
- 290 219.790 General Recordkeeping and Reporting (Repealed)
- 291 219.791 Compliance Date
- 292 219.792 Registration
- 293 219.875 Applicability of Subpart BB (Renumbered)
- 294 219.877 Emissions Limitation at Polystyrene Plants (Renumbered)
- 295 219.879 Compliance Date (Repealed)
- 296 219.881 Compliance Plan (Repealed)
- 297 219.883 Special Requirements for Compliance Plan (Repealed)
- 298 219.886 Emissions Testing (Renumbered)

299

300 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
301 MANUFACTURING PROCESSES

302
303 Section
304 219.920 Applicability
305 219.923 Permit Conditions
306 219.926 Control Requirements
307 219.927 Compliance Schedule
308 219.928 Testing
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310 SUBPART QQ: MISCELLANEOUS FORMULATION
311 MANUFACTURING PROCESSES
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313 Section
314 219.940 Applicability
315 219.943 Permit Conditions
316 219.946 Control Requirements
317 219.947 Compliance Schedule
318 219.948 Testing
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320 SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL
321 MANUFACTURING PROCESSES
322

323 Section
324 219.960 Applicability
325 219.963 Permit Conditions
326 219.966 Control Requirements
327 219.967 Compliance Schedule
328 219.968 Testing
329

330 SUBPART TT: OTHER EMISSION UNITS
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332 Section
333 219.980 Applicability
334 219.983 Permit Conditions
335 219.986 Control Requirements
336 219.987 Compliance Schedule
337 219.988 Testing
338

339 SUBPART UU: RECORDKEEPING AND REPORTING
340

341 Section
342 219.990 Exempt Emission Units
343 219.991 Subject Emission Units
344

- 345 219.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and Polymer
- 346 Manufacturing
- 347 219.APPENDIX B VOM Measurement Techniques for Capture Efficiency (Repealed)
- 348 219.APPENDIX C Reference Methods and Procedures
- 349 219.APPENDIX D Coefficients for the Total Resource Effectiveness Index (TRE) Equation
- 350 219.APPENDIX E List of Affected Marine Terminals
- 351 219.APPENDIX G TRE Index Measurements for SOCOMI Reactors and Distillation Units
- 352 219.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 219.212 Cross-
- 353 Line Averaging
- 354

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

357
 358 SOURCE: Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-
 359 24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883,
 360 effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May
 361 24, 1993, for a maximum of 150 days; amended in R93-9 at 17 Ill. Reg. 16918, effective
 362 September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective
 363 March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994;
 364 amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18
 365 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg.
 366 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and
 367 R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385,
 368 effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996;
 369 amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21
 370 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective
 371 February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006; amended
 372 in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-8 at 34 Ill. Reg.
 373 _____, effective _____.

374
 375 SUBPART A: GENERAL PROVISIONS

376
 377 **Section 219.106 Compliance Dates**

- 378
- 379 a) Except as provided in subsection (b) or (c) below, compliance with the
- 380 requirements of this Part is required by May 15, 1992, consistent with the
- 381 provisions of Section 219.103 of this Part.
- 382
- 383 b) As this Part is amended from time to time, compliance dates included in the
- 384 specific Subparts supersede the requirements of this Section except as limited by
- 385 Section 219.101(b) of this Subpart.
- 386
- 387 c) Any owner or operator of a source subject to the requirements of Section

388 219.204(o) of this Part shall comply with the requirements in Section 219.204(o),
389 as well as all applicable requirements in Sections 219.205 through 219.211,
390 219.214, and 219.217 by May 1, 2010.

391 (Source: Amended at 34 Ill. Reg. _____, effective _____)
392

393
394 **SUBPART E: SOLVENT CLEANING**
395

396 **Section 219.181 Solvent Cleaning Degreasing Operations in General**
397

398 The requirements of Sections 219.182, 219.183, 219.184, and 219.186 of this Subpart shall apply
399 to all cold cleaning, open top vapor degreasing, and conveyORIZED degreasing operations which
400 use volatile organic materials.

401
402 (Source: Amended at 34 Ill. Reg. _____, effective _____)
403

404 **Section 219.187 Other Industrial Solvent Cleaning Operations**
405

406 a) Applicability. On and after April 1, 2011:
407

408 1) Except as provided in subsection (a)(2) of this Section, the requirements of
409 this Section shall apply to all cleaning operations that use organic
410 materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of
411 VOM from cleaning operations at the source, in the absence of air
412 pollution control equipment. For purposes of this Section, "cleaning
413 operation" means the process of cleaning products, product components,
414 tools, equipment, or general work areas during production, repair,
415 maintenance or servicing, including but not limited to spray gun cleaning,
416 spray booth cleaning, large and small manufactured components cleaning,
417 parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank
418 cleaning, at sources with emission units;

419
420 2) Notwithstanding subsection (a)(1) of this Section:
421

422 A) The following cleaning operations shall be exempt from the
423 requirements of subsections (b), (c), (d), (f), and (g) of this
424 Section:
425

426 i) Cleaning operations subject to the limitations in Sections
427 219.182, 219.183, or 219.184;

428
429 ii) Janitorial cleaning;
430

- 431 iii) Stripping of cured coatings, inks, or adhesives, including
- 432 screen reclamation activities;
- 433
- 434 iv) Cleaning operations in printing pre-press areas, including
- 435 the cleaning of film processors, color scanners, plate
- 436 processors, film cleaning, and plate cleaning;
- 437

438 B) Cleaning operations for emission units within the following source

439 categories shall be exempt from the requirements of subsections

440 (b), (c), (d), (f), and (g) of this Section:

441

- 442 i) Aerospace coating;
- 443
- 444 ii) Flexible package printing;
- 445
- 446 iii) Lithographic printing;
- 447
- 448 iv) Letterpress printing;
- 449
- 450 v) Flat wood paneling coating;
- 451
- 452 vi) Large appliance coating;
- 453
- 454 vii) Metal furniture coating;
- 455
- 456 viii) Paper, film, and foil coating;
- 457
- 458 ix) Wood furniture coating;
- 459
- 460 x) Shipbuilding and repair coating;
- 461
- 462 xi) Plastic parts coating;
- 463
- 464 xii) Miscellaneous metal parts coating;
- 465
- 466 xiii) Fiberglass boat manufacturing;
- 467
- 468 xiv) Miscellaneous industrial adhesives; and
- 469
- 470 xv) Auto and light-duty truck assembly coating;
- 471

472 C) The following cleaning operations shall be exempt from the

473 requirements of subsections (b), (c), (f), and (g) of this Section:

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- i) Cleaning of solar cells, laser hardware, scientific instruments, and high-precision optics;
 - ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;
 - iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal 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 solvent-borne fluoropolymer coatings;
 - xii) Cleaning of ultraviolet or electron beam adhesive application;
 - xiii) Cleaning of sterilization indicating ink application equipment if the facility uses no more than 1.5 gallons per day of solvents for such cleaning;

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- 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):
- 1) The VOM content of the as-used cleaning solutions (minus water and any compounds that are specifically exempted from the definition of VOM) does not exceed the following emissions limitations:
 - A) Product cleaning during manufacturing process or surface preparation for coating, adhesive, or ink application:

	<u>kg/l</u>	<u>lb/gal</u>
i) <u>Electrical apparatus components and electronic components</u>	<u>0.10</u>	<u>0.83</u>
ii) <u>Medical device and pharmaceutical manufacturing</u>	<u>0.80</u>	<u>6.7</u>
 - B) Repair and maintenance cleaning:

	<u>kg/l</u>	<u>lb/gal</u>
i) <u>Electrical apparatus components and electronic</u>	<u>0.10</u>	<u>0.83</u>
ii) <u>Medical device and pharmaceutical manufacturing: tools, equipment, and machinery</u>	<u>0.80</u>	<u>6.7</u>
iii) <u>Medical device and pharmaceutical manufacturing: general work surfaces</u>	<u>0.60</u>	<u>5.0</u>
 - C) Cleaning of ink application equipment:

		<u>kg/l</u>	<u>lb/gal</u>
i)	<u>Rotogravure printing that does not print flexible packaging</u>	<u>0.10</u>	<u>0.83</u>
ii)	<u>Screen printing</u>	<u>0.50</u>	<u>4.2</u>
iii)	<u>Ultraviolet ink and electron beam ink application equipment, except screen printing</u>	<u>0.65</u>	<u>5.4</u>
iv)	<u>Flexographic printing that does not print flexible packaging</u>	<u>0.10</u>	<u>0.83</u>

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		<u>kg/l</u>	<u>lb/gal</u>
D)	<u>All other cleaning operations not subject to a specific limitation in subsections (b)(1)(A) through (b)(1)(C) of this Section</u>	<u>0.050</u>	<u>0.42</u>

544

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

547

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

558

559 c) The owner or operator of a subject source shall demonstrate compliance with this
 560 Section by using the applicable test methods and procedures specified in
 561 subsection (g) of this Section and by complying with the recordkeeping and
 562 reporting requirements specified in subsection (e) of this Section.

563

564 d) Operating Requirements. The owner or operator of a source subject to the
 565 requirements of this Section shall comply with the following for each subject
 566 cleaning operation:

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568 1) Cover open containers and properly cover and store applicators used to
 569 apply cleaning solvents;

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- 2) Minimize air circulation around the cleaning operation;
 - 3) Dispose of all used cleaning solutions, cleaning towels, and applicators used to apply cleaning solvents in closed containers;
 - 4) Utilize equipment practices that minimize emissions.
- e) Recordkeeping and Reporting Requirements.
- 1) The owner or operator of a source exempt from the limitations of this Section because of the criteria in Section 219.187(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 219.187(a)(1);
 - ii) Calculations 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;

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- iii) If complying with the emissions control system requirement, what type of emissions control system will be used;
 - iv) Initial documentation that each subject cleaning operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - v) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - vi) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.187(d); and
 - vii) A description of each cleaning operation exempt pursuant to Section 219.187(a)(2), if any, and a listing of the emission units on which the exempt cleaning operation is performed;
- B) At least 30 calendar days before changing the method of compliance between subsections (b)(1) or (b)(2) and subsection (b)(3) of this Section, notify the Agency in writing of such change. The notification shall include a demonstration of compliance with the newly applicable subsection;
- 3) 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 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;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of

656 changes to the proportion of cleaning solvent and water (or
657 other non-VOM);

658
659 iv) The proportion of each cleaning solvent and water (or other
660 non-VOM) used to prepare the as-used cleaning solution;

661
662 v) The VOM content of the as-used cleaning solution, with
663 supporting calculations; and

664
665 vi) A calibration log for the automatic equipment, detailing
666 periodic checks;

667
668 B) For each batch of cleaning solution that is not prepared at the
669 source with automatic equipment;

670
671 i) The name and identification of each cleaning solution;

672
673 ii) Date, time of preparation, and each subsequent
674 modification of the batch;

675
676 iii) The VOM content of each cleaning solvent in the cleaning
677 solution;

678
679 iv) The total amount of each cleaning solvent and water (or
680 other non-VOM) used to prepare the as-used cleaning
681 solution; and

682
683 v) The VOM content of the as-used cleaning solution, with
684 supporting calculations. For cleaning solutions that are not
685 prepared at the site but are used as purchased, the
686 manufacturer's specifications for VOM content may be
687 used if such manufacturer's specifications are based on
688 results of tests of the VOM content conducted in
689 accordance with methods specified in Section 219.105(a) of
690 this Part;

691
692 4) All sources complying with this Section pursuant to the requirements of
693 subsection (b)(2) of this Section shall collect and record the following
694 information for each cleaning solution used:

695
696 A) The name and identification of each cleaning solution;

697

- 698 B) Date, time of preparation, and each subsequent modification of the
699 batch;
700
701 C) The molecular weight, density, and VOM composite partial vapor
702 pressure of each cleaning solvent, as determined in accordance
703 with the applicable methods and procedures specified in Section
704 219.110 of this Part;
705
706 D) The total amount of each cleaning solvent used to prepare the as-
707 used cleaning solution; and
708
709 E) The VOM composite partial vapor pressure of each as-used
710 cleaning solution, as determined in accordance with the applicable
711 methods and procedures specified in Section 219.110 of this Part;
712
713 5) All sources complying with this Section pursuant to the requirements of
714 subsection (b)(3) of this Section shall comply with the following:
715
716 A) By April 1, 2011, or upon initial start-up of the source, whichever
717 is later, and upon initial start-up of a new emissions control
718 system, include in the certification required by subsection (e)(3) of
719 this Section a declaration that the monitoring equipment required
720 under Section 219.187(f) of this Subpart has been properly
721 installed and calibrated according to manufacturer's specifications;
722
723 B) If testing of an emissions control system is conducted pursuant to
724 Section 219.187(g) of this Subpart, the owner or operator shall,
725 within 90 days after conducting such testing, submit a copy of all
726 test results to the Agency and shall submit a certification to the
727 Agency that includes the following:
728
729 i) A declaration that all tests and calculations necessary to
730 demonstrate compliance with Section 219.187(b)(3) of this
731 Subpart have been properly performed;
732
733 ii) A statement whether the subject cleaning operation is or is
734 not in compliance with Section 219.187(b)(3) of this
735 Subpart; and
736
737 iii) The operating parameters of the emissions control system
738 during testing, as monitored in accordance with Section
739 219.187(f) of this Subpart;
740

- 741 C) Collect and record daily the following information for each
742 cleaning operation subject to the requirements of Section
743 219.187(b)(3) of this Subpart:
744
745 i) Emissions control system monitoring data in accordance
746 with Section 219.187(f) of this Subpart, as applicable;
747
748 ii) A log of operating time for the emissions control system,
749 monitoring equipment, and associated cleaning equipment;
750
751 iii) A maintenance log for the emissions control system and
752 monitoring equipment detailing all routine and non-routine
753 maintenance performed, including dates and duration of
754 any outages;
755
756 D) Maintain records documenting the use of good operating practices
757 consistent with the equipment manufacturer's specifications for the
758 cleaning equipment being used and the emissions control system
759 equipment. At a minimum, these records shall include:
760
761 i) Records for periodic inspection of the cleaning equipment
762 and emissions control system equipment with date of
763 inspection, individual performing the inspection, and nature
764 of inspection;
765
766 ii) Records for repair of malfunctions and breakdowns with
767 identification and description of incident, date identified,
768 date repaired, nature of repair, and the amount of VOM
769 released into the atmosphere as a result of the incident;
770
771 6) All sources subject to the requirements of subsections (b) and (d) of this
772 Section shall notify the Agency of any violation of subsection (b) or (d) by
773 providing a description of the violation and copies of records documenting
774 the violation to the Agency within 30 days following the occurrence of the
775 violation;
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777 7) All records required by this subsection (e) shall be retained by the source
778 for at least three years and shall be made available to the Agency upon
779 request.
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781 f) Monitoring Requirements.
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1) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.187(b)(3) of this Subpart shall:

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 219.105(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 devices, 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 219.187(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 219.187(b)(3).

g) Testing Requirements.

1) 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;

2) Testing to demonstrate compliance with the VOM content limitations in Section 219.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted as follows:

A) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 219.112 of this Part, shall be used to demonstrate compliance; or

- 826 B) The manufacturer's specifications for VOM content for cleaning
 827 solvents may be used if such manufacturer's specifications are
 828 based on results of tests of the VOM content conducted in
 829 accordance with methods specified in Section 219.105(a) of this
 830 Part; provided, however, Method 24 shall be used to determine
 831 compliance;
 832
- 833 3) Testing to determine the VOM composite partial vapor pressure of
 834 cleaning solvents, cleaning solvent concentrates, and as-used cleaning
 835 solutions shall be conducted in accordance with the applicable methods
 836 and procedures specified in Section 219.110 of this Part;
 837
- 838 4) For afterburners and carbon adsorbers, the methods and procedures of
 839 Section 219.105(d) through (f) shall be used for testing to demonstrate
 840 compliance with the requirements of Section 219.187(b)(3) of this
 841 Subpart, as follows:
 842
- 843 A) To select the sampling sites, Method 1 or 1A, as appropriate, 40
 844 CFR 60, Appendix A, incorporated by reference in Section
 845 219.112 of this Part;
 846
- 847 B) To determine the volumetric flow rate of the exhaust stream,
 848 Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A,
 849 incorporated by reference in Section 219.112 of this Part;
 850
- 851 C) To determine the VOM concentration of the exhaust stream
 852 entering and exiting the emissions control system, Method 25 or
 853 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by
 854 reference in Section 219.112 of this Part. For thermal and catalytic
 855 afterburners, Method 25 must be used except under the following
 856 circumstances, in which case Method 25A must be used:
 857
- 858 i) The allowable outlet concentration of VOM from the
 859 emissions control system is less than 50 ppmv, as carbon;
 860
- 861 ii) The VOM concentration at the inlet of the emissions
 862 control system and the required level of control result in
 863 exhaust concentrations of VOM of 50 ppmv, or less, as
 864 carbon; and
 865
- 866 iii) Due to the high efficiency of the emissions control system,
 867 the anticipated VOM concentration at the emissions control
 868 system exhaust is 50 ppmv or less, as carbon, regardless of

869 inlet concentration. If the source elects to use Method 25A
 870 under this option, the exhaust VOM concentration must be
 871 50 ppmv or less, as carbon, and the required destruction
 872 efficiency must be met for the source to have demonstrated
 873 compliance. If the Method 25A test results show that the
 874 required destruction efficiency apparently has been met, but
 875 the exhaust concentration is above 50 ppmv, as carbon, a
 876 retest is required. The retest shall be conducted using
 877 either Method 25 or Method 25A. If the retest is conducted
 878 using Method 25A and the test results again show that the
 879 required destruction efficiency apparently has been met, but
 880 the exhaust concentration is above 50 ppmv, as carbon, the
 881 source must retest using Method 25;

882
 883 D) During testing, the cleaning equipment shall be operated at
 884 representative operating conditions and flow rates;

885
 886 5) An owner or operator using an emissions control system other than an
 887 afterburner or carbon adsorber shall conduct testing to demonstrate
 888 compliance with the requirements of Section 219.187(b)(3) of this Subpart
 889 as set forth in the owner's or operator's plan approved by the Agency and
 890 USEPA as federally enforceable permit conditions pursuant to Section
 891 219.187(b)(3) of this Subpart.

892
 893 (Source: Added at 34 Ill. Reg. _____, effective _____)

894
 895 **SUBPART F: COATING OPERATIONS**

896
 897 **Section 219.204 Emission Limitations**

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 899 Except as provided in Sections 219.205, 219.207, 219.208, 219.212, 219.215 and 219.216 of this
 900 Subpart, no owner or operator of a coating line shall apply at any time any coating in which the
 901 VOM content exceeds the following emission limitations for the specified coating. Except as
 902 provided in ~~Sections~~Section 219.204(l) and 219.204(o), compliance with the emission limitations
 903 marked with an asterisk in this Section is required on and after March 15, 1996, and compliance
 904 with emission limitations not marked with an asterisk is required until March 15, 1996. The
 905 following emission limitations are expressed in units of VOM per volume of coating (minus
 906 water and any compounds which are specifically exempted from the definition of VOM) as
 907 applied at each coating applicator, except where noted. Compounds which are specifically
 908 exempted from the definition of VOM should be treated as water for the purpose of calculating
 909 the "less water" part of the coating composition. Compliance with this Subpart must be
 910 demonstrated through the applicable coating analysis test methods and procedures specified in
 911 Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in

912 Section 219.211(c) of this Subpart except where noted. (Note: The equation presented in Section
 913 219.206 of this Part shall be used to calculate emission limitations for determining compliance
 914 by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.)
 915 The emission limitations are as follows:
 916

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

917
 918 (Note: The primer surface coat limitation is in units of kg (lbs) of VOM per
 919 1 (gal) of coating solids deposited. Compliance with the limitation shall be
 920 based on the daily-weighted average from an entire primer surface operation.
 921 Compliance shall be demonstrated in accordance with the topcoat protocol
 922 referenced in Section 219.105(b) and the recordkeeping and reporting
 923 requirements specified in Section 219.211(f). Testing to demonstrate
 924 compliance shall be performed in accordance with the topcoat protocol and a
 925 detailed testing proposal approved by the Agency and USEPA specifying the
 926 method of demonstrating compliance with the protocol. Section 219.205 does
 927 not apply to the primer surface limitation.)
 928

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

929
 930 (Note: The topcoat limitation is in units of kg (lbs) of VOM per 1 (gal) of
 931 coating solids deposited. Compliance with the limitation shall be based on the
 932 daily-weighted average from an entire topcoat operation. Compliance shall be
 933 demonstrated in accordance with the topcoat protocol referenced in Section
 934 219.105(b) of this Part and the recordkeeping and reporting requirements
 935 specified in Section 219.211(f). Testing to demonstrate compliance shall be
 936 performed in accordance with the topcoat protocol and a detailed testing
 937 proposal approved by the Agency and USEPA specifying the method of
 938 demonstrating compliance with the protocol. Section 219.205 of this Part
 939 does not apply to the topcoat limitation.)
 940

4)	Final repair coat	kg/l	lb/gal
		0.58	(4.8)
		0.58*	(4.8)*

941

b)	Can Coating	kg/l	lb/gal
	1) Sheet basecoat and overvarnish		
	A) Sheet basecoat	0.34 0.26*	(2.8) (2.2)*
	B) Overvarnish	0.34 0.34	(2.8) (2.8)*
	2) Exterior basecoat and overvarnish	0.34 0.25*	(2.8) (2.1)*
	3) Interior body spray coat		
	A) Two piece	0.51 0.44*	(4.2) (3.7)*
	B) Three piece	0.51 0.51*	(4.2) (4.2)*
	4) Exterior end coat	0.51 0.51*	(4.2) (4.2)*
	5) Side seam spray coat	0.66 0.66*	(5.5) (5.5)*
	6) End sealing compound coat	0.44 0.44*	(3.7) (3.7)*
942	c) Paper Coating	kg/l	lb/gal
		0.35 0.28*	(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, ~~or~~ rotogravure, lithographic, or letterpress printing is performed if the paper coating line complies with the applicable emissions limitations in ~~Subpart H~~Section 219.401 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	kg/l	lb/gal
		0.31 0.20*	(2.6) (1.7)*

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952	e) Fabric Coating	0.35 0.28*	(2.9) (2.3)*
953	f) Vinyl Coating	0.45 0.28*	(3.8) (2.3)*
954	g) Metal Furniture Coating		
	1) Air dried	0.36 0.34*	(3.0) (2.8)*
	2) Baked	0.36 0.28*	(3.0) (2.3)*
955	h) Large Appliance Coating		
956	1) Air dried	0.34 0.34*	(2.8) (2.8)*
957	2) Baked	0.34 0.28*	(2.8) (2.3)*
958	(Note: The limitation shall not apply to the use of quick-drying lacquers for repair		
959	of scratches and nicks that occur during assembly, provided that the volume of		
	coating does not exceed 0.95 l (1 quart) in any one rolling eight-hour period.)		
960	i) Magnet Wire Coating	kg/l 0.20 0.20*	lb/gal (1.7) (1.7)*
	j) Miscellaneous Metal Parts and Products Coating		
	1) Clear coating	0.52 0.52*	(4.3) (4.3)*
	2) Extreme performance coating		
	A) Air dried	0.42 0.42*	(3.5) (3.5)*
	B) Baked	0.42 0.40*	(3.5) (3.3)*
	3) Steel pail and drum interior coating	0.52 0.52*	(4.3) (4.3)*

- 4) All other coatings
 - A) Air ~~dried~~ Dried

0.42	(3.5)
0.40*	(3.3)*
 - B) Baked

0.36	(3.0)
0.34*	(2.8)*
- 5) Metallic Coating
 - A) Air ~~dried~~ Dried

0.42	(3.5)
0.42*	(3.5)*
 - B) Baked

0.36	(3.0)
0.36	(3.0)*
- 6) For purposes of subsection 219.204(j)(5) of this Section, "metallic coating" means a coating which contains more than ¼ lb/gal of metal particles, as applied.

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- k) Heavy Off-Highway Vehicle Products Coating

	kg/l	lb/gal
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 - 1) Extreme performance prime coat

0.42	(3.5)
0.42*	(3.5)*
 - 2) Extreme performance topcoat (air dried)

0.42	(3.5)
0.42*	(3.5)*
 - 3) Final repair coat (air dried)

0.42	(3.5)
0.42*	(3.5)*
 - 4) All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above.

962

- l) Wood Furniture Coating
 - 1) Limitations before March 15, 1998:

	kg/l	lb/gal
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 - A) Clear topcoat

0.67	(5.6)
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 - B) Opaque stain

0.56	(4.7)
------	-------
 - C) Pigmented coat

0.60	(5.0)
------	-------
 - D) Repair coat

0.67	(5.6)
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E) Sealer	0.67	(5.6)
F) Semi-transparent stain	0.79	(6.6)
G) Wash coat	0.73	(6.1)

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(Note: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all coatings, with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLPP) 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	lb VOM/lb solids
A) Topcoat	0.8	(0.8)
B) Sealers and topcoats with the following limits:		
i) Sealer other than acid-cured alkyd amino vinyl sealer	1.9	(1.9)
ii) Topcoat other than acid-cured alkyd amino conversion varnish topcoat	1.8	(1.8)
iii) Acid-cured alkyd amino vinyl sealer	2.3	(2.3)
iv) Acid-cured alkyd amino conversion varnish topcoat	2.0	(2.0)
C) Meet the provisions of Section 219.215 of this Subpart for use of an averaging approach;		

- D) Achieve a reduction in emissions equivalent to the requirements of Section 219.204(1)(2)(A) or (B) of this Subpart, as calculated using Section 219.216 of this Subpart; or
 - E) Use a combination of the methods specified in Section 219.204(1)(2)(A) through (D) of this Subpart.
- 3) Other wood furniture coating limitations on and after March 15, 1998:
- | | kg/l | lb/gal |
|-------------------------------|------|--------|
| A) Opaque stain | 0.56 | (4.7) |
| B) Non-topcoat pigmented coat | 0.60 | (5.0) |
| C) Repair coat | 0.67 | (5.6) |
| D) Semi-transparent stain | 0.79 | (6.6) |
| E) Wash coat | 0.73 | (6.1) |
- 4) Other wood furniture coating requirements on and after March 15, 1998:
- A) 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 219.217 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 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 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; and
- iii) Maintain these records at the source for a period of three years.

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m)	Plastic Parts Coating: Automotive/Transportation	kg/l	lb/gal
1)	Interiors		
A)	Baked		
i)	Color coat	0.49*	(4.1)*
ii)	Primer	0.46*	(3.8)*
B)	Air dried		
i)	Color coat	0.38*	(3.2)*
ii)	Primer	0.42*	(3.5)*
2)	Exteriors (flexible and non-flexible)		
A)	Baked		
i)	Primer	0.60*	(5.0)*
ii)	Primer non-flexible	0.54*	(4.5)*
iii)	Clear coat	0.52*	(4.3)*
iv)	Color coat	0.55*	(4.6)*
B)	Air Dried		
i)	Primer	0.66*	(5.5)*
ii)	Clear coat	0.54*	(4.5)*
iii)	Color coat (red & black)	0.67*	(5.6)*
iv)	Color coat (others)	0.61*	(5.1)*
3)	Specialty		
A)	Vacuum metallizing basecoats, texture basecoats	0.66*	(5.5)*

- B) Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings 0.71* (5.9)*
- C) Gloss reducers, vacuum metallizing topcoats, and texture topcoats 0.77* (6.4)*
- D) Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings 0.82* (6.8)*
- E) Head lamp lens coatings 0.89* (7.4)*

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- n) Plastic Parts Coating: Business Machine kg/l lb/gal
 - 1) Primer 0.14* (1.2)*
 - 2) Color coat (non-texture coat) 0.28* (2.3)*
 - 3) Color coat (texture coat) 0.28* (2.3)*
 - 4) Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings 0.48* (4.0)*
 - 5) Specialty Coatings
 - A) Soft coat 0.52* (4.3)*
 - B) Plating resist 0.71* (5.9)*
 - C) Plating sensitizer 0.85* (7.1)*

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- o) Flat Wood Paneling Coatings. On and after May 1, 2010, flat wood paneling coatings shall comply with one of the following limitations:
 - 1) 0.25 kg VOM/l of coatings (2.1 lb VOM/gal coatings); or
 - 2) 0.35 kg VOM/l solids (2.9 lb VOM/gal solids).

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

Section 219.205 Daily-Weighted Average Limitations

No owner or operator of a coating line subject to the limitations of Section 219.204 of this

983 Subpart and complying by means of this Section shall operate the subject coating line unless the
 984 owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), or
 985 (h) of this Section (depending upon the category of coating) through the applicable coating
 986 analysis test methods and procedures specified in Section 219.105(a) of this Part and the
 987 recordkeeping and reporting requirements specified in Section 219.211(d) of this Subpart:
 988

- 989 a) No owner or operator of a coating line subject to only one of the limitations from
 990 among Section 219.204(a)(1), (a)(4), (c), (d), (e), (f), ~~(i)~~, or (o) of this Subpart
 991 shall apply coatings on any such coating line, during any day, whose daily-
 992 weighted average VOM content exceeds the emission limitation to which the
 993 coatings are subject.
 994
- 995 b) No owner or operator of a miscellaneous metal parts and products coating line
 996 subject to the limitations of Section 219.204(j) of this Subpart shall apply coatings
 997 to miscellaneous metal parts or products on the subject coating line unless the
 998 requirements in subsection (b)(1) or (b)(2) of this Section are met.
 999
 - 1000 1) For each coating line which applies multiple coatings, all of which are
 1001 subject to the same numerical emission limitation within Section
 1002 219.204(j) of this Subpart during the same day (e.g., all coatings used on
 1003 the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted average
 1004 VOM content shall not exceed the coating VOM content limit
 1005 corresponding to the category of coating used, or
 1006
 - 1007 2) For each coating line which applies coatings subject to more than one
 1008 numerical emission limitation in Section 219.204(j) of this Subpart, during
 1009 the same day, the owner or operator shall have a site-specific proposal
 1010 approved by the Agency and approved by the USEPA as a SIP revision.
 1011 To receive approval, the requirements of USEPA's Emissions Trading
 1012 Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4,
 1013 1986), must be satisfied.
 1014
- 1015 c) No owner or operator of a can coating line subject to the limitations of Section
 1016 219.204(b) of this Subpart shall operate the subject coating line using a coating
 1017 with a VOM content in excess of the limitations specified in Section 219.204(b)
 1018 of this Subpart unless all of the following requirements are met:
 1019
 - 1020 1) An alternative daily emission limitation for the can coating operation, i.e.,
 1021 for all of the can coating lines at the source, shall be determined according
 1022 to subsection (c)(2) of this Section. Actual daily emissions shall never
 1023 exceed the alternative daily emission limitation and shall be calculated by
 1024 use of the following equation.
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$$E_d \equiv \sum_{i=1}^n V_i C_i$$

where:

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

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- 2) The alternative daily emission limitation (A_d) 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:

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

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1038

where:

- A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of surface coatings applied in the can coating operation;
- C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);

D_i = The density of VOM in each coating applied. For the purposes of calculating A_d , the density is 0.882kg VOM/l VOM (7.36 lbs VOM/gal VOM);

V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (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 219.204(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).

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- d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 219.204(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) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(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
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(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'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 219.204(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 (e)(2) of this Section, in addition to the requirements specified in the note to Section 219.204(l)(1) of this Subpart, are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(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-

- 1070 weighted average VOM content shall not exceed the coating VOM content
 1071 limit corresponding to the category of coating used, or
 1072
- 1073 2) For each coating line which applies coatings subject to more than one
 1074 numerical emission limitation in Section 219.204(l)(1) or (l)(3) of this
 1075 Subpart, during the same day, the owner or operator shall have a site
 1076 specific proposal approved by the Agency and approved by the USEPA as
 1077 a SIP revision. To receive approval, the requirements of USEPA's
 1078 Emissions Trading Policy Statement (and related policy) 51 Fed. Reg.
 1079 43814 (December 4, 1986), must be satisfied.
 1080
- 1081 f) No owner or operator of a plastic parts coating line subject to the limitations of
 1082 Section 219.204(m) or (n) of this Subpart shall apply coatings to business
 1083 machine or automotive/transportation plastic parts on the subject coating line
 1084 unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.
 1085
- 1086 1) For each coating line which applies multiple coatings, all of which are
 1087 subject to the same numerical emission limitation within Section
 1088 219.204(m) or (n) of this Subpart, during the same day (e.g., all coatings
 1089 used on the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted
 1090 average VOM content shall not exceed the coating VOM content limit
 1091 corresponding to the category of coating used, or
 1092
- 1093 2) For each coating line which applies coatings subject to more than one
 1094 numerical emission limitation in Section 219.204(m) or (n) of this
 1095 Subpart, during the same day, the owner or operator shall have a site
 1096 specific proposal approved by the Agency and USEPA as a SIP revision.
 1097 To receive approval, the requirements of USEPA's Emissions Trading
 1098 Policy Statement (and related policy) must be satisfied.
 1099
- 1100 g) No owner or operator of a metal furniture coating line subject to the limitations of
 1101 Section 219.204(g) of this Subpart shall apply coatings on the subject coating line
 1102 unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:
 1103
- 1104 1) For each coating line which applies multiple coatings, all of which are
 1105 subject to the same numerical emission limitation within Section
 1106 219.204(g) of this Subpart, during the same day (e.g., all coatings used on
 1107 the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
 1108 VOM content shall not exceed the coating VOM content limit
 1109 corresponding to the category of coating used, or
 1110
- 1111 2) For each coating line which applies coatings subject to more than one
 1112 numerical emission limitation in Section 219.204(g) of this Subpart,

during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

- h) No owner or operator of a large appliance coating line subject to the limitations of Section 219.204(h) 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 219.204(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 219.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

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

Section 219.207 Alternative Emission Limitations

- a) Any owner or operator of a coating line subject to Section 219.204 of this Subpart may comply with this Section, rather than with Section 219.204 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 subsection (c), (d), (e), (f), (g), (h), (i), ~~(j)~~, or (k) 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 219.105 of this Part and the recordkeeping and reporting requirements specified in Section 219.211(e) of this Subpart; and the control device is equipped with the applicable monitoring equipment specified in Section 219.105(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), or (k) of this Section may be used as an alternative to compliance with Section 219.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.

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- 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 219.204 of this Subpart. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption scrubber system can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. Baseline transfer efficiencies and transfer efficiency test methods must be approved by the Agency and the USEPA. Such overall efficiency is to be determined as follows:
 - A) Obtain the emission limitation from the appropriate subsection in Section 219.204 of this Subpart;
 - B) Calculate "S" according to the equation in Section 219.206 of this Subpart;
 - C) Calculate the overall efficiency required according to Section 219.105(e) of this Part. For the purposes of calculating this value, according to the equation in Section 219.105(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.
- c) No owner or operator of a coating line subject to only one of the emission limitations from among Section 219.204(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 219.204(a)(2) or (a)(3) of this Part 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 219.105(b) of this Part.
- 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 219.204(j) of this

1199 Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal],
 1200 and which is equipped with a capture system and control device shall operate the
 1201 subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this
 1202 Section are met.

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 1204 e) No owner or operator of a heavy off-highway vehicle products coating line which
 1205 applies one or more coatings during the same day, all of which are subject to the
 1206 ~~and same~~ numerical emission limitation within Section 219.204(k) of this Subpart
 1207 (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal]), and
 1208 which is equipped with a capture system and control device shall operate the
 1209 subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this
 1210 Section are met.

1211
 1212 f) No owner or operator of a wood furniture coating line which applies one or more
 1213 coatings during the same day, all of which are subject to the same numerical
 1214 emission limitation within Section 219.204(l) of this Subpart (e.g., all coatings
 1215 used on the line are subject to 0.67 kg/1 [5.6 lbs/gal]), and which is equipped with
 1216 a capture system and control device shall operate the subject coating line unless
 1217 the requirements in subsection (b)(1) or (b)(2) of this Section are met. If
 1218 compliance is achieved by meeting the requirements in subsection (b)(2) of this
 1219 Section, then the provisions in the note to Section 219.204(l) of this Subpart must
 1220 also be met.

1221
 1222 g) No owner or operator of a can coating line ~~and~~ equipped with a capture system
 1223 and control device shall operate the subject coating line unless the requirements in
 1224 subsection (g)(1) or (g)(2) of this Section are met.

1225
 1226 1) An alternative daily emission limitation for the can coating operation, i.e.
 1227 for all of the can coating lines at the source, shall be determined according
 1228 to Section 219.205(c)(2) of this Subpart. Actual daily emissions shall
 1229 never exceed the alternative daily emission limitation and shall be
 1230 calculated by use of the following equation:
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$$E_d \equiv \sum_{i=1}^n V_i C_i (1 - F_i)$$

1233
 1234 where:

1235 E_d = Actual VOM emissions for the day in units of kg/day
 (lbs/day);

i = Subscript denoting the specific coating applied;

- n = Total number of surface coatings as applied in the can coating operation;
- V_i = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (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.

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- 2) 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.
 - h) 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 219.204(m) or (n) 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.
 - i) 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 219.204(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.
 - j) 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 219.204(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.

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- k) No owner or operator of a flat wood paneling coating line that is equipped with a capture system and control device shall operate the subject coating line unless either:
 - 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 219.210 Compliance Schedule

Every owner or operator of a coating line (of a type included within Section 219.204 of this Subpart) shall comply with the requirements of Section 219.204, 219.205, 219.207 or 219.208 and Section 219.211 or Sections 219.212 and 219.213 of this Subpart in accordance with the appropriate compliance schedule as specified in subsection (a), (b), (c), (d), (e), ~~(f)~~, or (g) below:

- a) No owner or operator of a coating line which is exempt from the limitations of Section 219.204 of this Subpart because of the criteria in Section 219.208(a) or (b) of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.211(b) of this Subpart.
- b) No owner or operator of a coating line complying by means of Section 219.204 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.204 and 219.211(c) of this Subpart.
- c) No owner or operator of a coating line complying by means of Section 219.205 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.205 and 219.211(d) of this Subpart.
- d) No owner or operator of a coating line complying by means of Section 219.207 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.207 and 219.211(e) of this Subpart.

- 1305 e) No owner or operator of a coating line subject to one or more of the emission
 1306 limitations contained in Section 219.204 of this Subpart on or after March 15,
 1307 1996, choosing to comply by means of Section 219.204, 219.205 or 219.207 of
 1308 this Subpart, shall operate said coating line on or after March 15, 1996, unless the
 1309 owner or operator complies with and continues to comply with, respectively, the
 1310 applicable requirements in Section 219.204, or the alternative control options in
 1311 Sections 219.205 or 219.207 and the requirements of Section 219.211.
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- 1313 f) No owner or operator of a coating line subject to one or more of the emission
 1314 limitations contained in Section 219.204 of this Subpart on or after March 15,
 1315 1996, choosing to comply by means of Section 219.212 of this Subpart, shall
 1316 operate said coating line on or after March 15, 1996, unless the owner or operator
 1317 complies with and continues to comply with the requirements of Sections 219.212
 1318 and 219.213 of this Subpart.
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- 1320 g) No owner or operator of a coating line subject to the emission limitations
 1321 contained in Section 219.204(o) of this Subpart shall operate that coating line on
 1322 or after a date consistent with Section 219.106(c) of this Part, unless the owner or
 1323 operator has complied with, and continues to comply with, Section 219.204(o) or
 1324 the alternative control options in Section 219.205 or 219.207, and the
 1325 requirements of Sections 219.211 and 219.217 of this Subpart, as applicable.
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1327 (Source: Amended at 34 Ill. Reg. _____, effective _____)
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1329 **Section 219.211 Recordkeeping and Reporting**
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- 1331 a) The VOM content of each coating and the efficiency of each capture system and
 1332 control device shall be determined by the applicable test methods and procedures
 1333 specified in Section 219.105 of this Part to establish the records required under
 1334 this Section.
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- 1336 b) Any owner or operator of a coating line which is exempted from the limitations of
 1337 Section 219.204 of this Subpart because of Section 219.208(a) or (b) of this
 1338 Subpart shall comply with the following:
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- 1340 1) For sources exempt from Section 219.208(a) of this Subpart, by a date
 1341 consistent with Section 219.106 of this Part, the owner or operator of a
 1342 coating line or group of coating lines referenced in subsection (b) of this
 1343 Section shall certify to the Agency that the coating line or group of coating
 1344 lines is exempt under the provisions of Section 219.208(a) of this Subpart.
 1345 Such certification shall include:
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1347 A) A declaration that the coating line is exempt from the limitations of
 1348 Section 219.204 of this Subpart because of Section 219.208(a) of
 1349 this Subpart; and

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 1351 B) Calculations which demonstrate that the combined VOM
 1352 emissions from the coating line and all other coating lines in the
 1353 same category never exceed 6.8 kg (15 lbs) per day before the
 1354 application of capture systems and control devices. The following
 1355 equation shall be used to calculate total VOM emissions:
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$$T_e \equiv \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

1358 where:
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T_e = 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 219.104 of this Part (because they belong to the same category, e.g., can coating);

j = Subscript denoting an individual coating line;

n = Number of different coatings as applied each day on each coating line;

i = Subscript denoting an individual coating;

A_i = Weight of VOM per volume of each coating (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);

B_i = 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.

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- 2) For sources exempt under Section 219.208(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 219.208(b) of this Subpart. Such certification shall include:
- A) A declaration that the source is exempt from the limitations of Section 219.204(l) of this Subpart because of Section 219.208(b) of this Subpart; and
 - B) Calculations which demonstrate that the source meets the criteria of exemption because of Section 219.208(b) of this Subpart.
- 3) For sources exempt under Section 219.208(a) of this Subpart, on and after a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of 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.
- 4) For sources exempt under Section 219.208(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) 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.

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- 5) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 219.204 of this Subpart because of Section 219.208(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 219.204(l) of this Subpart because of Section 219.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 219.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.

 - c) Any owner or operator of a coating line subject to the limitations of Section 219.204 of this Subpart other than Section 219.204(a)(2) and (a)(3) of this Subpart and complying by means of Section 219.204 of this Subpart shall comply with the following:
 - 1) By a date consistent with Section 219.106 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 219.205, Section 219.207, Section 219.215, or Section 219.216 of this Subpart to Section 219.204 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 219.204 of this Subpart on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:
 - A) The name and identification number of each coating as applied on each coating line;
 - B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; ~~and~~
 - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line; and-

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- D) For coating lines subject to the limitations of Section 219.204(o) 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 219.106 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:
- 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;
 - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(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 limitation of Section 219.204(1)(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 219.204(o) 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 219.106 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 219.204 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.

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- B) At least 30 calendar days before changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d)(1) or (e)(1) below, respectively. Upon changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.
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- d) Any owner or operator of a coating line subject to the limitations of Section 219.204 of this Subpart and complying by means of Section 219.205 of this Subpart shall comply with the following:
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- 1) By a date consistent with Section 219.106 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 219.204 or Section 219.207 to Section 219.205 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 219.205 on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:
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- A) The name and identification number of each coating line which will comply by means of Section 219.205 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.
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- D) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(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.
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- E) For coating lines subject to the limitations of Section 219.204(o) of this Subpart, the weight of VOM per volume of coatings or solids, as applicable, as applied each day on each coating line.

- 1530 ~~FE~~) The instrument or method by which the owner or operator will
 1531 accurately measure or calculate the volume of each coating as
 1532 applied each day on each coating line.
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- 1534 ~~GF~~) The method by which the owner or operator will create and
 1535 maintain records each day as required in subsection (d)(2) of this
 1536 Section.
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- 1538 ~~HG~~) An example of the format in which the records required in
 1539 subsection (d)(2) of this Section will be kept.
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- 1541 2) On and after a date consistent with Section 219.106 of this Part, or on and
 1542 after the initial start-up date, the owner or operator of a subject coating
 1543 line shall collect and record all of the following information each day for
 1544 each coating line and maintain the information at the source for a period of
 1545 three years:
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- 1547 A) The name and identification number of each coating as applied on
 1548 each coating line.
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- 1550 B) The weight of VOM per volume and the volume of each coating
 1551 (minus water and any compounds which are specifically exempted
 1552 from the definition of VOM) as applied each day on each coating
 1553 line.
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- 1555 C) On and after March 15, 1998, for coating lines subject to the
 1556 limitations of Section 219.204(1)(2)(A) or (B) of this Subpart, the
 1557 weight of VOM per weight of solids in each coating as applied
 1558 each day on each coating line.
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- 1560 D) For coating lines subject to the limitations of Section 219.204(o) of
 1561 this Subpart, the weight of VOM per volume of coatings or solids,
 1562 as applicable, as applied each day on each coating line.
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- 1564 ~~ED~~) The daily-weighted average VOM content of all coatings as
 1565 applied on each coating line as defined in Section 219.104 of this
 1566 Part.
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- 1568 3) On and after a date consistent with Section 219.106 of this Part, the owner
 1569 or operator of a subject coating line shall notify the Agency in the
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- A) Any record showing violation of Section 219.205 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.
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart, 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 this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart, 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 coating line subject to the limitations of Section 219.207 and complying by means of Section 219.207(c), (d), (e), (f), (g), ~~(h)~~, or (k) of this Subpart shall comply with the following:
- 1) By a date consistent with Section 219.106 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 219.204 or Section 219.205 to Section 219.207 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 219.207 of this Subpart on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date.
 - 2) On and after a date consistent with Section 219.106 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:
 - A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 219.207(b)(2) of this Subpart.
 - B) Control device monitoring data.
 - C) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line.

- 1615 D) A maintenance log for the capture system, control device and
 1616 monitoring equipment detailing all routine and non-routine
 1617 maintenance performed including dates and duration of any
 1618 outages.
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- 1620 3) On and after a date consistent with Section 219.106 of this Part, the owner
 1621 or operator of a subject coating line shall notify the Agency in the
 1622 following instances:
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- 1624 A) Any record showing violation of Section 219.207 of this Subpart
 1625 shall be reported by sending a copy of such record to the Agency
 1626 within 30 days following the occurrence of the violation.
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- 1628 B) At least 30 calendar days before changing the method of
 1629 compliance with this Subpart from Section 219.207 to Section
 1630 219.204 or Section 219.205 of this Subpart, the owner or operator
 1631 shall comply with all requirements of subsection (c)(1) or (d)(1) of
 1632 this Section, respectively. Upon changing the method of
 1633 compliance with this Subpart Part from Section 219.207 to Section
 1634 219.204 or Section 219.205 of this Subpart, the owner or operator
 1635 shall comply with all requirements of subsection (c) or (d) of this
 1636 Section, respectively.
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- 1638 f) Any owner or operator of a primer surfacer operation or topcoat operation subject
 1639 to the limitations of Section 219.204(a)(2) or (a)(3) of this Subpart shall comply
 1640 with the following:
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- 1642 1) By a date consistent with Section 219.106 of this Part, or upon initial start-
 1643 up of a new coating operation, the owner or operator of a subject coating
 1644 operation shall certify to the Agency that the operation will be in
 1645 compliance with Section 219.204 of this Subpart on and after a date
 1646 consistent with Section 219.106 of this Part, or on and after the initial
 1647 start-up date. Such certification shall include:
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- 1649 A) The name and identification number of each coating operation
 1650 which will comply by means of Section 219.204(a)(2) and (a)(3) of
 1651 this Subpart and the name and identification number of each
 1652 coating line in each coating operation.
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- 1654 B) The name and identification number of each coating as applied on
 1655 each coating line in the coating operation.
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- 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 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each topcoat or primer surfacer coating operation and maintain the information at the source for a period of three years:
- A) 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 219.204(a)(2) or (a)(3) of this Subpart including:
 - i) The name and identification number of each coating as applied on each coating operation.
 - 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.
 - B) If a control device or devices are ~~device(s) is~~ used to control VOM emissions, control device monitoring data; a log of operating time

- 1700 for the capture system, control device, monitoring equipment and
1701 the associated coating operation; and a maintenance log for the
1702 capture system, control device and monitoring equipment,
1703 detailing all routine and non-routine maintenance performed
1704 including dates and duration of any outages.
1705
- 1706 3) On and after a date consistent with Section 219.106 of this Part or on and
1707 after the initial start-up date, the owner or operator of a subject coating
1708 operation shall determine and record the daily VOM emissions in kg (lbs)
1709 per 1 (gal) of coating solids deposited in accordance with the proposal
1710 submitted and approved pursuant to Section 219.204(a)(2) or (a)(3) of this
1711 Subpart within 10 days from the end of the month and maintain this
1712 information at the source for a period of three years.
1713
- 1714 4) On and after a date consistent with Section 219.106 of this Part, the owner
1715 or operator of a subject coating operation shall notify the Agency in the
1716 following instances:
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- 1718 A) Any record showing a violation of Section 219.204(a)(2) or (a)(3)
1719 of this Subpart shall be reported by sending a copy of such record
1720 to the Agency within 15 days from the end of the month in which
1721 the violation occurred.
1722
- 1723 B) The owner or operator shall notify the Agency of any change to the
1724 operation at least 30 days before the change is effected. The
1725 Agency shall determine whether or not compliance testing is
1726 required. If the Agency determines that compliance testing is
1727 required, then the owner or operator shall submit a testing proposal
1728 to the Agency within 30 days and test within 30 days of the
1729 approval of the proposal by the Agency and USEPA.
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- 1731 g) On and after a date consistent with Section 219.106(c) of this Part, or on and after
1732 the initial start-up date, whichever is later, the owner or operator of a flat wood
1733 paneling coating line subject to the requirements in Section 219.217 of this
1734 Subpart shall comply with the following:
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- 1736 1) By May 1, 2010, or upon initial start-up, whichever is later, submit a
1737 certification to the Agency that includes a description of the practices and
1738 procedures that the source will follow to ensure compliance with the
1739 applicable requirements in Sections 219.217(c) and 219.217(d) of this
1740 Subpart; and
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- 1742 2) Notify the Agency of any violation of Section 219.217 of this Subpart by
 1743 providing a description of the violation and copies of records documenting
 1744 such violation to the Agency within 30 days following the occurrence of
 1745 the violation.
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1747 (Source: Amended at 34 Ill. Reg. _____, effective _____)
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1749 **Section 219.212 Cross-Line Averaging to Establish Compliance for Coating Lines**
 1750

1751 a) On and after March 15, 1996, any owner or operator of a coating line subject to
 1752 the limitations set forth in Section 219.204 of this Subpart, except coating lines
 1753 subject to the limitations in Section 219.204(o) of this Subpart, and with coating
 1754 lines in operation prior to January 1, 1991 ("pre-existing coating lines"), may, for
 1755 pre-existing coating lines only, elect to comply with the requirements of this
 1756 Section, rather than complying with the applicable emission limitations set forth
 1757 in Section 219.204, if an operational change of the type described below has been
 1758 made after January 1, 1991, to one or more pre-existing coating lines at the
 1759 source. An operational change occurs when a pre-existing coating line is replaced
 1760 with a line using lower VOM coating for the same purpose as the replaced line
 1761 ("replacement line"). A source electing to rely on this Section to demonstrate
 1762 compliance with the requirements of this Subpart shall operate pursuant to
 1763 federally enforceable permit conditions approved by the Agency and USEPA.
 1764

1765 b) An owner or operator of pre-existing coating lines subject to a VOM content
 1766 limitation in Section 219.204 of this Subpart and electing to rely on this Section to
 1767 demonstrate compliance with this Subpart must establish, by use of the equations
 1768 in subsection (d) of this Section, that the calculated actual daily VOM emissions
 1769 from all participating coating lines, as defined below, are less than the calculated
 1770 daily allowable VOM emissions from the same group of coating lines. For any
 1771 pre-existing coating line to be aggregated for the purposes of Section 219.212,
 1772 219.213, or 219.214 of this Subpart ("participating coating lines"), the source
 1773 must establish that:
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1775 1) All coatings applied on the participating coating line shall, at all times,
 1776 have a VOM content less than or equal to the applicable VOM content
 1777 limitation for such coating listed in Appendix H of this Part; and
 1778

1779 2) On the date the source elects to rely on this Section to demonstrate
 1780 compliance with this Subpart, all coatings applied on the participating
 1781 coating line are not already in compliance with the VOM content
 1782 limitation for such coating effective on or after March 15, 1996; or the
 1783 participating coating line is a replacement line, as defined in subsection (a)
 1784 of this Section with an operational change occurring on or after January 1,

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1991.

c) Notwithstanding subsection (a) of this Section, any owner or operator of a coating line subject to the limitations set forth in Section 219.204 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:

- 1) The replacement line is operated as a powder coating line;
- 2) The replacement line was added after July 1, 1988; and
- 3) The owner or operator also includes as a participating coating line 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:

- 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 (E_d) shall never exceed the alternative daily emission limitation (A_d) and shall be calculated by use of the following equation:

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

where:

E_d = Actual daily VOM emissions from participating coating lines in units of kg/day (lbs/day);

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied by all participating coating lines at the source;

V_i = Volume of each coating applied for the day in units of l/day

(gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and

C_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).

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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:

$$A_d \equiv A_i + A_p$$

where A_i and A_p are defined in subsections (2)(A) and (2)(B) of this subsection.

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

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

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 by all participating coating lines at the source;

C_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);

D_i = The density of VOM in each coating applied. For the purposes of calculating A_i , the density is 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM);

V_i = 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_i = The VOM emission limitation for each coating applied, as specified in Section 219.204 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).

1836
 1837 B) The portion of the alternative daily emissions limitation for
 1838 coating operations at a source using powdered coating (A_p) shall
 1839 be determined for all such participating powder coating lines on a
 1840 daily basis as follows:
 1841

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

1843
 1844 where:
 1845

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

h = Subscript denoting a specific powder coating line;

j = Subscript denoting a specific powder coating applied;

m = Total number of participating powder coating lines;

n = Total number of powder coatings applied in the participating coating lines;

D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM);

V_j = Volume of each powder coating consumed for the day in units of 1 (gal) of coating;

L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 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); 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 219.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Tests methods and recordkeeping requirements shall be approved by the Agency and USEPA and 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.

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

Section 219.217 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 219.204(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 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 219.204(l) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (b)(1) through (4) of this Section:
 - 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;

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- 2) For repair coating under the following circumstances:
 - A) 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 219.216 of this Subpart.

c) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 219.204(l) or 219.204(o) of this Subpart shall:

- 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
- 2) Pump or drain all organic solvent used for line cleaning into closed containers;
- 3) Collect all organic solvent used to clean spray guns in closed containers; and
- 4) Control emissions from washoff operations by using closed tanks.

d) Additional cleaning and storage requirements for flat wood paneling coating lines. Every owner or operator of a source subject to the limitations of Section 219.204(o) of this Subpart shall:

- 1) Minimize spills of VOM-containing coatings, thinners, and cleaning materials and clean up spills immediately;
- 2) Minimize emissions of VOM during the cleaning of storage, mixing, and conveying equipment; and
- 3) Keep mixing vessels that contain VOM-containing coatings and other VOM-containing materials closed except when specifically in use.

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- e) ~~Application equipment requirements. No owner or operator of a source subject to the limitations of Section 219.204(1) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (c)(1) through (4) of this Section:~~
 - 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:~~
 - A) ~~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 219.216 of this Subpart.~~

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

SUBPART H: PRINTING AND PUBLISHING

Section 219.401 Flexographic and Rotogravure Printing

- a) ~~No owner or operator of a subject flexographic, packaging rotogravure or publication 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 219.105(a) and the recordkeeping and reporting requirements specified in Section 219.404(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.~~
 - 1) Prior to May 1, 2010, either:

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- A) Forty percent VOM by volume of the coating and ink (minus water and any compounds which are specifically exempted from the definition of VOM);⁵ or
 - B~~2~~) Twenty-five percent VOM by volume of the volatile content in the coating and ink; and-
- 2) On and after May 1, 2010:
- A) For owners or 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 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) 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 averaging alternative.
- 1) Prior to May 1, 2010, no~~ne~~ 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) of this Section). Compliance with this subsection must be demonstrated through the applicable coating or ink analysis test methods and procedures specified in Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.404(d) of this Part.
 - A~~1~~) The following equation shall be used to determine if the weighted

1997 average VOM content of all coatings and inks as applied each day
 1998 on the subject printing line exceeds the limitation specified in
 1999 subsection (a)(1)(A) of this Section.
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$$Vom_{(i)(A)} = \frac{\sum_{i=1}^n C_i L_i (V_{si} + V_{VOMi})}{\sum_{i=1}^n L_i (V_{si} + V_{VOMi})}$$

2002 where ~~Where~~:
 2003
 2004

$VOM_{(i)(A)}$ = 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;

C_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_i = The liquid volume of each coating or ink as applied in units of l (gal);

V_{si} = The volume fraction of solids in each coating or ink as applied;

V_{VOMi} = The volume fraction of VOM in each coating or ink as applied.

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 2006 B2) The following equation shall be used to determine if the weighted
 2007 average VOM content of all coatings and inks as applied each day
 2008 on the subject printing line exceeds the limitation specified in
 2009 subsection (a)(~~12~~)(B) of this Section.
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$$Vom_{(i)(B)} = \frac{\sum_{i=1}^n C_i L_i V_{VMi}}{\sum_{i=1}^n L_i V_{VMi}}$$

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where:

VOM_{(i)(B)} = The weighted average VOM content in units of percent VOM by volume of the volatile content of all coatings and inks used each day;

i = Subscript denoting a specific coating or ink as applied;

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

C_i = The VOM content in units of percent VOM by volume of the volatile matter in each coating or ink as applied;

L_i = The liquid volume of each coating or ink as applied in units of l (gal);

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

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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)(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 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.404(d) of this Subpart.

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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

2034 day on the subject printing line does not exceed the limitation specified in
 2035 either subsection (a)(2)(B)(i) (calculated in accordance with the equation
 2036 in subsection (b)(3)(A)) or subsection (a)(2)(B)(ii) (calculated in
 2037 accordance with the equation in subsection (b)(3)(B)) of this Section.
 2038 Compliance with this subsection (b)(3) shall be demonstrated through the
 2039 applicable coating or ink analysis test methods and procedures specified in
 2040 Section 219.105(a) of this Part and the recordkeeping and reporting
 2041 requirements specified in Section 219.404(d) of this Subpart.

2042
 2043 A) The following equation shall be used to determine if the weighted
 2044 average VOM content of all coatings and inks as applied each day
 2045 on the subject printing line exceeds the limitation specified in
 2046 subsection (a)(2)(B)(i) of this Section.
 2047

2048
$$Vom_{(A)} = \frac{\sum_{i=1}^n C_i W_i}{\sum_{i=1}^n W_i}$$

2049
 2050 where:
 2051

VOM_(A) ≡ The weighted average VOM content in units of kg
VOM per kg (lbs VOM per lb) solids of all coatings
and inks used each day;

i ≡ Subscript denoting a specific coating or ink as applied;

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

C_i ≡ The VOM content in units of kg VOM per kg (lbs
VOM per lb) solids of each coating or ink as applied;

W_i ≡ Weight of solids in each coating or ink, as applied, in
units of kg/l (lb/gal).

2052
 2053 B) The following equation shall be used to determine if the weighted
 2054 average VOM content of all coatings and inks as applied each day
 2055 on the subject printing line exceeds the limitation specified in
 2056 subsection (a)(2)(B)(ii) of this Section.
 2057

2058

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

2059

2060

2061

where:

$VOM_{(B)}$ \equiv The weighted average VOM content in units of kg (lbs) VOM per weight in kg (lbs) of all coatings or inks as applied each day;

i \equiv Subscript denoting a specific coating or ink as applied;

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

C_i \equiv The VOM content in units of kg (lbs) VOM per weight in kg (lbs) of each coating or ink as applied;

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

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c) Capture System and Control Device Requirements.

1) Prior to May 1, 2010, no~~Ne~~ 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)(1)(C), as well as ~~(3)~~ and subsections (c)(1)(D)(4), (c)(5), and (c)(6) ~~below~~.

A) One of:

i) A carbon adsorption system is used that ~~which~~ reduces the captured VOM emissions by at least 90 percent by weight;
or

ii) An incineration system is used that ~~which~~ reduces the captured VOM emissions by at least 90 percent by weight;
or

iii) An alternative VOM emission reduction system is used that ~~which~~ is demonstrated to have at least a 90 percent control

2084 device efficiency, approved by the Agency and approved
 2085 by USEPA as a SIP revision; and

2086
 2087 B4) The printing line is equipped with a capture system and control
 2088 device that provides an overall reduction in VOM emissions of at
 2089 least:

2090
 2091 iA) 75 percent where a publication rotogravure printing line is
 2092 employed, or

2093
 2094 iiB) 65 percent where a packaging rotogravure printing line is
 2095 employed, or

2096
 2097 iiiC) 60 percent where a flexographic printing line is employed,
 2098 and

2099
 2100 2) On and after May 1, 2010, no owner or operator of a flexographic or
 2101 rotogravure printing line that does not print flexible packaging and that is
 2102 equipped with a capture system and control device shall operate the
 2103 subject printing line unless the owner or operator meets the requirements
 2104 in subsection (c)(1)(A), (c)(1)(B), or (c)(1)(C), as well as subsections
 2105 (c)(1)(D), (c)(5), and (c)(6) of this Section;

2106
 2107 3) On and after May 1, 2010, no owner or operator of a flexographic or
 2108 rotogravure printing line that prints flexible packaging and that is
 2109 equipped with a capture system and control device shall operate the
 2110 subject printing line unless the owner or operator meets the requirements
 2111 in subsections (c)(5) and (c)(6) of this Section and the capture system and
 2112 control device provides an overall reduction in VOM emissions of at least:

2113
 2114 A) 65 percent in cases in which a subject printing line was first
 2115 constructed at the subject source prior to March 14, 1995 and
 2116 utilizes a control device that was first constructed at the subject
 2117 source prior to January 1, 2010; or

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 2119 B) 70 percent when a subject printing line was first constructed at the
 2120 subject source prior to March 14, 1995 and utilizes a control device
 2121 that was first constructed at the subject source on or after January
 2122 1, 2010; or

2123
 2124 C) 75 percent when a subject printing line was first constructed at the
 2125 subject source on or after March 14, 1995 and utilizes a control

device that was first constructed at the subject source prior to January 1, 2010; or

D) 80 percent when a subject printing line was first constructed at the subject source on or after March 14, 1995 and utilizes a control device that was first constructed at the subject source on or after January 1, 2010;

4) 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 (c)(1)(D) or subsection (c)(3) of this Section, whichever is more stringent, as well as subsections (c)(5) and (c)(6) of this Section;

5) The control device is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and, except as provided in Section 219.105(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 219.105(c) of this Part through Section 219.105(f) of this Part and by complying with the recordkeeping and reporting requirements specified in Section 219.404(e) of this Part. The owner or operator of a printing line subject to the requirements in Section 219.401(c)(2) or 219.401(c)(1)(D) of this Section that performed all testing necessary to demonstrate compliance with Section 219.401(c)(1)(D) prior to May 1, 2010, is not required to retest pursuant to this subsection (c)(6). The owner or operator of a printing line subject to the requirements in Section 219.401(c)(3) shall perform testing in compliance with this subsection (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 (c)(6), however, shall limit the Agency's ability to require that the owner or operator perform testing pursuant to 35 Ill. Adm. Code 201.282:

A) On or after May 1, 2000, the owner or operator of the subject printing line performed all testing necessary to demonstrate compliance with Section 219.401(c)(1)(D);

- 2169
2170 B) Such testing also demonstrated an overall control efficiency equal
2171 to or greater than the applicable control efficiency requirements in
2172 Section 219.401(c)(3);
2173
2174 C) The owner or operator submitted the results of such tests to the
2175 Agency, and the tests were not rejected by the Agency;
2176
2177 D) The same capture system and control device subject to the tests
2178 referenced in subsection (c)(6)(A) of this Section is still being used
2179 by the subject printing line; and
2180
2181 E) The owner or operator complies with all recordkeeping and
2182 reporting requirements in Section 219.404(e)(1)(B).
2183
2184 d) No owner or operator of subject flexographic or rotogravure printing lines that
2185 print flexible packaging or print flexible packaging and non-flexible packaging on
2186 the same line shall cause or allow VOM containing cleaning materials, including
2187 used cleaning towels, associated with the subject flexographic or rotogravure
2188 printing lines to be kept, stored, or disposed of in any manner other than in closed
2189 containers, or conveyed from one location to another in any manner other than in
2190 closed containers or pipes, except when specifically in use.

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2192 (Source: Amended at 34 Ill. Reg. _____, effective _____)
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2194 **Section 219.402 Applicability**
2195

- 2196 a) Except as otherwise provided in Section 219.401, the
2197 limitations of Section 219.401 of this SubpartPart apply to all flexographic and rotogravure printing
2198 lines at a subject source. All sources with flexographic and/or rotogravure
2199 printing lines are subject sources unless:
2200
2201 1) Total maximum theoretical emissions of VOM from all flexographic and
2202 rotogravure printing lines line(s) (including solvents used for cleanup
2203 operations associated with flexographic and rotogravure printing
2204 linesline(s)), at the source never exceed 90.7 Mg (100 tons) per calendar
2205 year before the application of capture systems and control devices, or
2206
2207 2) A federally enforceable permit or SIP revision for all flexographic and
2208 rotogravure printing lines line(s) at a source requires the owner or operator
2209 to limit production or capacity of these printing lines line(s) to reduce total
2210 VOM emissions from all flexographic and rotogravure printing lines
2211 line(s) to 90.7 Mg (100 tons) or less per calendar year before the

application of capture systems and control devices.

- b) The limitations of Section 219.401(d) shall apply to all owners or operators of flexographic or rotogravure printing line(s) 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 line(s)), in the absence of air pollution control equipment.
- cb) Upon achieving compliance with this Subpart, the flexographic and rotogravure printing lines are not required to meet Subpart G (Sections 219.301 or 219.302 of this Part). Flexographic and rotogravure printing lines exempt from this Subpart are subject to Subpart G (Sections 219.301 or 219.302 of this Part). Rotogravure or flexographic equipment used for both roll printing and paper coating is subject to this Subpart.
- de) Once subject to the limitations of Section 219.401 of this Part, a flexographic or rotogravure printing line is always subject to the limitations of Section 219.401 of this Part.
- ed) Any owner or operator of any flexographic or rotogravure printing line that is exempt from any of the limitations of Section 219.401 of this Part because of the criteria in this Section is subject to the recordkeeping and reporting requirements specified in Section 219.404(b) and (f) of this Part, as applicable.

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

Section 219.403 Compliance Schedule

Every owner or operator of a flexographic and/or rotogravure printing line shall comply with the applicable requirements of Section 219.401 and Section 219.404 of this Part in accordance with the applicable compliance ~~schedules~~ schedule 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 ~~that which~~ is exempt from the limitations of Section 219.401 of this Part because of the criteria in Section 219.402(a) of this Part shall operate said printing line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.404(b) of this Part.
- b) No owner or operator of a flexographic or rotogravure printing line complying by means of Section 219.401(a)(1) of this Part shall operate said printing line on or

2255 after a date consistent with Section 219.106 of this Part, unless the owner or
 2256 operator has complied with, and continues to comply with, Section 219.401(a)(1)
 2257 of this Part and Section 219.404(c) of this Part.
 2258

2259 c) No owner or operator of a flexographic or rotogravure printing line complying by
 2260 means of Section 219.401(b)(1) of this Part shall operate said printing line on or
 2261 after a date consistent with Section 219.106 of this Part, unless the owner or
 2262 operator has complied with, and continues to comply with, Section 219.401(b)(1)
 2263 and Section 219.404(d) of this Part.
 2264

2265 d) No owner or operator of a flexographic or rotogravure printing line complying by
 2266 means of Section 219.401(c)(1)(D) of this Part shall operate said printing line on
 2267 or after a date consistent with Section 219.106 of this Part, unless the owner or
 2268 operator has complied with, and continues to comply with, the applicable
 2269 provisions in SectionsSection 219.401(c) and Section-219.404(e) of this Part.
 2270

2271 e) No owner or operator of a flexographic or rotogravure printing line complying by
 2272 means of Section 219.401(a)(2), (b)(2), or (b)(3) or complying by means of
 2273 Section 219.401(c)(2), (c)(3), or (c)(4), shall operate the printing line on or after
 2274 May 1, 2010, unless the owner or operator has complied with, and continues to
 2275 comply with, Section 219.401(a)(2), (b)(2) or (b)(3), and Section 219.401(c), as
 2276 applicable, and all applicable provisions in Section 219.404 of this Part.
 2277

2278 f) No owner or operator of a flexographic or rotogravure printing line that prints
 2279 flexible packaging, or that prints flexible packaging and non-flexible packaging
 2280 on the same line, shall operate the printing line on or after May 1, 2010, unless the
 2281 owner or operator has complied with, and continues to comply with, Section
 2282 219.401(d) and Section 219.404(g) of this Part.
 2283

2284 g) No owner or operator of a flexographic or rotogravure printing line that prints
 2285 flexible packaging, or that prints flexible packaging and non-flexible packaging
 2286 on the same line, and that is exempt from the limitations of Section 219.401(d)
 2287 because of the criteria in Section 219.402(b) of this Part shall operate the printing
 2288 line on or after May 1, 2010, unless the owner or operator has complied with, and
 2289 continues to comply with, Section 219.402(b) and Section 219.404(f) of this Part.
 2290

2291 (Source: Amended at 34 Ill. Reg. _____, effective _____)
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2293 **Section 219.404 Recordkeeping and Reporting**
 2294

2295 a) The VOM content of each coating and ink and the efficiency of each capture
 2296 system and control device shall be determined by the applicable test methods and
 2297 procedures specified in Section 219.105 of this Part to establish the records

2298 required under this Section.
 2299

2300 b) Any owner or operator of a printing line which is exempted from any of the
 2301 limitations of Section 219.401 of this Part because of the criteria in Section
 2302 219.402(a) of this Part shall comply with the following:
 2303

2304 1) By a date consistent with Section 219.106 of this Part, or, for flexographic
 2305 or rotogravure printing lines that print flexible packaging or that print
 2306 flexible packaging and non-flexible packaging on the same line, by May 1,
 2307 2010, the owner or operator of a flexographic and rotogravure printing line
 2308 to which this subsection (b) is applicable shall certify to the Agency that
 2309 the flexographic and rotogravure printing line is exempt under the
 2310 provisions of Section 219.402(a) of this Part. Such certification shall
 2311 include:
 2312

2313 A) A declaration that the flexographic and rotogravure printing line is
 2314 exempt from the limitations of the criteria in Section 219.401
 2315 because of Section 219.402(a) of this Part; and
 2316

2317 B) Calculations which demonstrate that total maximum theoretical
 2318 emissions of VOM from all flexographic and rotogravure printing
 2319 lines at the source never exceed 90.7 Mg (100 tons) per calendar
 2320 year before the application of capture systems and control devices.
 2321 Total maximum theoretical emissions of VOM for a flexographic
 2322 or rotogravure printing source is the sum of maximum theoretical
 2323 emissions of VOM from each flexographic and rotogravure
 2324 printing line at the source. The following equation shall be used to
 2325 calculate total maximum theoretical emissions of VOM per
 2326 calendar year before the application of capture systems and control
 2327 devices for each flexographic and rotogravure printing line at the
 2328 source:
 2329

$$2330 E_p = A \times B + 1095 (C \times D \times F)$$

2331 where:
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 2333

E_p = Total maximum theoretical emissions of VOM from one
 flexographic or rotogravure printing line in units of kg/year
 (lbs/year);

A = Weight of VOM per volume of solids of the coating or ink with
 the highest VOM content as applied each year on the printing
 line in units of kg VOM/l (lbs VOM/gal) of coating or ink

solids;

- B = Total volume of solids for all coatings and inks that can potentially be applied each year on the printing line in units of l/year (gal/year). The 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 ~~kg~~kg/l (lbs VOM/gal) of such material;
- D = The greatest volume of cleanup material or solvent used in any 8-hour period;
- F = The highest fraction of cleanup material or solvent which is not recycled or recovered for offsite disposal during any 8-hour period.

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- 2) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a facility 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.
- 3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a facility exempted from the limitations of Section 219.401 of this Part because of the criteria in Section 219.402(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

219.401 of this Part and complying by means of Section 219.401(a) of this Part shall comply with the following:

- 1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(b) or Section 219.401(c) to Section 219.401(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 219.401(a) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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:
 - A) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.

- 2) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401 of this Part and complying by means of Section 219.401(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) The name and identification number of each coating and ink as applied on each printing line.
 - B) The VOM content of each coating and ink as applied each day on each printing line.

- 3) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(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.

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- B) At least 30 calendar days before changing the method of compliance with Section 219.401 of this Part from Section 219.401(a) to Section 219.401(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 219.401 of this Part from Section 219.401(a) to Section 219.401(b) or (c) of this Part, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.

- d) Any owner or operator of a printing line subject to the limitations of Section 219.401 of this Part and complying by means of Section 219.401(b) of this Part shall comply with the following:
 - 1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(a) or (c) to Section 219.401(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 219.401(b) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(e), as applicable, on and after the initial start-up date. The owner or operator of a printing line subject to the requirements in Section 219.401(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 219.401(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 instrument or method by which the owner or operator will accurately measure or calculate 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

2442 maintain records each day as required in subsection (d)(2) of this
2443 Section.

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

2448 2) On and after a date consistent with Section 219.106 of this Part, or Section
2449 219.403(e), as applicable, or on and after the initial start-up date, the
2450 owner or operator of a printing line subject to the limitations of Section
2451 219.401 and complying by means of Section 219.401(b) of this Part shall
2452 collect and record all of the following information each day for each
2453 printing line and maintain the information at the source for a period of
2454 three years:

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

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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.

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C) The daily-weighted average VOM content of all coatings and inks
as applied on each printing line.

2466 3) On and after a date consistent with Section 219.106 of this Part, or Section
2467 219.403(e), as applicable, the owner or operator of a subject printing line
2468 shall notify the Agency in the following instances:

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A) Any record showing violation of Section 219.401(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.

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B) At least 30 calendar days before changing the method of
compliance with Section 219.401 of this Part from Section
219.401(b) to Section 219.401(a) or 219.401(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 219.401 of this Part from
Section 219.401(b) to Section 219.401(a) or (c) of this Part, the
owner or operator shall comply with all requirements of subsection
(c) or (e) of this Section, respectively.

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e) Any owner or operator of a printing line subject to the limitations of Section

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219.401 of this Part and complying by means of Section 219.401(c) of this Part shall comply with the following:

- 1) By a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401(a) or (b) to Section 219.401(c) of this Part, the owner or operator of the subject printing line shall either:
 - A) Perform~~perform~~ all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with Section 219.401(c) of this Part on and after a date consistent with Section 219.106 of this Part, or Section 219.403(e), as applicable, or on and after the initial start-up date; or-
 - B) If not required to perform such testing pursuant to Section 219.401(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 219.401(c)(6);
 - ii) The dates that testing demonstrating compliance with Section 219.401(c)(3) was performed; and
 - iii) The dates that the results of such testing were submitted to the Agency.
- 2) On and after a date consistent with Section 219.106 of this Part, or Section 219.403(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 219.401 of this Part and complying by means of Section 219.401(c) of this Part shall collect and record all of the following information each day for each printing line and maintain the information at the facility for a period of three years:
 - A) Control device monitoring data.
 - B) A log of operating time for the capture system, control device, monitoring equipment and the associated printing line.
 - C) A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine

- 2528 maintenance performed including dates and duration of any
 2529 outages.
 2530
- 2531 3) On and after a date consistent with Section 219.106 of this Part, or Section
 2532 219.403(e), as applicable, the owner or operator of a subject printing line
 2533 shall notify the Agency in the following instances:
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- 2535 A) Any record showing violation of Section 219.401(c) of this Part,
 2536 shall be reported by sending a copy of such record to the Agency
 2537 within 30 days following the occurrence of the violation.
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- 2539 B) At least 30 calendar days before changing the method of
 2540 compliance with Section 219.401 of this Part from Section
 2541 219.401(c) to Section 219.401(a) or (b) of this Part, the owner or
 2542 operator shall comply with all requirements of subsection (c)(1) or
 2543 (d)(1) of this Section, respectively. Upon changing the method of
 2544 compliance with Section 219.401 of this Part from Section
 2545 219.401(c) to Section 219.401(a) or (b) of this Part, the owner or
 2546 operator shall comply with all requirements of subsection (c) or (d)
 2547 of this Section, respectively.
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- 2549 4) By May 1, 2010, or upon initial start-up of a new printing line, whichever
 2550 is later, the owner or operator of a printing line subject to the requirements
 2551 in Section 219.401(c)(3) or (c)(4) shall submit to the Agency records
 2552 documenting the date the printing line was constructed at the subject
 2553 source and the date the control device for such printing line was
 2554 constructed at the subject source.
 2555
- 2556 f) Any owner or operator of a flexographic or rotogravure printing line that prints
 2557 flexible packaging, or that prints flexible packaging and non-flexible packaging
 2558 on the same line, and that is exempt from the limitations of Section 219.401(d)
 2559 because of the criteria in Section 219.402(b) shall:
 2560
- 2561 1) By May 1, 2010, or upon initial start-up of a new printing line, whichever
 2562 is later, and upon modification of a printing line, submit a certification to
 2563 the Agency that includes:
 2564
- 2565 A) A declaration that the source is exempt from the requirements in
 2566 Section 219.401(d) because of the criteria in Section 219.402(b);
 2567
- 2568 B) Calculations that demonstrate that combined emissions of VOM
 2569 from all flexographic and rotogravure printing lines (including inks
 2570 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 219.401(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 219.401(d); and

2) Notify the Agency of any violation of Section 219.401(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 219.405 Lithographic Printing: Applicability

a) ~~Until March 15, 1996, the limitations of Section 219.406 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 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~~

- 2614 2) ~~A federally enforceable permit or SIP revision for all heatset web offset~~
 2615 ~~lithographic printing line(s) at a source requires the owner or operator to~~
 2616 ~~limit production or capacity of these printing line(s) to reduce total VOM~~
 2617 ~~emissions from all heatset web offset lithographic printing line(s) to 90.7~~
 2618 ~~Mg (100 tons) per calendar year or less in the absence of air pollution~~
 2619 ~~control equipment.~~
 2620
- 2621 b) ~~Any owner or operator of any heatset web offset lithographic printing line that is~~
 2622 ~~exempt from the limitations in Section 219.406 of this Subpart because of the~~
 2623 ~~criteria in subsection (a) of this Section shall be subject to the recordkeeping and~~
 2624 ~~reporting requirements in Section 219.406(b)(1) of this Subpart.~~
 2625
- 2626 ae) ~~Every~~ On and after March 15, 1996, every owner or operator of lithographic
 2627 printing lines ~~line(s)~~ is subject to the recordkeeping and reporting requirements in
 2628 Section 219.411 of this Subpart.
 2629
- 2630 bd) ~~Prior to May 1, 2010~~, On and after March 15, 1996, Sections 219.407 through
 2631 219.410 of this Subpart shall apply to:
 2632
- 2633 1) All owners or operators of heatset web offset lithographic printing lines
 2634 ~~line(s)~~ unless:
 2635
- 2636 A) Total maximum theoretical emissions of VOM from all heatset
 2637 web offset lithographic printing lines (including solvents used for
 2638 cleanup operations associated with heatset web offset lithographic
 2639 printing lines) at the source never exceed 90.7 Mg (100 tons) per
 2640 calendar year before the application of capture systems and control
 2641 devices. To determine a source's total maximum theoretical
 2642 emissions of VOM for the purposes of this subsection, the owner
 2643 or operator shall use the calculations set forth in Section
 2644 219.411(a)(1)(C) ~~406(b)(1)(A)(ii)~~ of this Subpart; or
 2645
- 2646 B) Federally enforceable permit conditions or SIP revision for all
 2647 heatset web offset lithographic printing lines ~~line(s)~~ at the source
 2648 requires the owner or operator to limit production or capacity of
 2649 these printing lines ~~line(s)~~ to total VOM emissions of 90.7 Mg/yr
 2650 (100 TPY) or less, before the application of capture systems and
 2651 control devices;
 2652
- 2653 2) All owners or operators of ~~heatset web offset, non-heatset web offset, or~~
 2654 ~~sheet fed offset~~ lithographic printing lines ~~line(s)~~, unless the combined
 2655 emissions of VOM from all lithographic printing lines ~~line(s)~~ at the source
 2656 (including solvents used for cleanup operations associated with the

2657 lithographic printing ~~lines~~ ~~line(s)~~ never exceed 45.5 kg/day (100 lbs/day),
 2658 as determined in accordance with Section 219.411(a)(1)(B), before the
 2659 application of capture systems and control devices.
 2660

2661 c) On and after May 1, 2010:

- 2663 1) The requirements in Section 219.407(a)(1)(B) through (a)(1)(E) and
 2664 219.407(b) and all applicable provisions in Sections 219.409 through
 2665 219.411 of this Subpart shall apply to all owners or operators of heatset
 2666 web offset lithographic printing lines, if the combined emissions of VOM
 2667 from all lithographic printing lines at the source (including solvents used
 2668 for cleanup operations associated with the lithographic printing lines) ever
 2669 exceed 45.5 kg/day (100 lbs/day), calculated in accordance with Section
 2670 219.411(b)(2)(B), before the application of capture systems and control
 2671 devices;
 2672
- 2673 2) The requirements in Section 219.407(a)(1)(A) and 219.407(a)(2) through
 2674 (a)(5) and all applicable provisions in Sections 219.409 through 219.411
 2675 of this Subpart shall apply to all owners or operators of lithographic
 2676 printing lines if the combined emissions of VOM from all lithographic
 2677 printing lines at the source (including solvents used for cleanup operations
 2678 associated with the lithographic printing lines) ever equal or exceed 6.8
 2679 kg/day (15 lbs/day), calculated in accordance with Section
 2680 219.411(b)(1)(B), before the application of capture systems and control
 2681 devices;
 2682
- 2683 3) Notwithstanding subsection (c)(2) of this Section, at sources where the
 2684 combined emissions of VOM from all lithographic printing lines at the
 2685 source (including solvents used for cleanup operations associated with the
 2686 lithographic printing lines) equal or exceed 6.8 kg/day (15 lbs/day) but do
 2687 not exceed 45.5 kg/day (100 lbs/day), calculated in accordance with
 2688 Section 219.411(b)(1)(B), before the application of capture systems and
 2689 control devices, the following exclusions shall apply unless the owner or
 2690 operator of the source certifies pursuant to Section 219.411(g)(1)(B) that
 2691 the source will not make use of any such exclusions:
 - 2693 A) The requirements of Section 219.407(a)(1)(A), 219.407(a)(2), and
 2694 219.407(a)(3) of this Subpart shall not apply to lithographic
 2695 printing lines with a total fountain solution reservoir of less than
 2696 3.8 liters (1 gallon);
 2697

- 2698 B) The requirements of Section 219.407(a)(3) of this Subpart shall not
2699 apply to sheet-fed offset lithographic printing lines with maximum
2700 sheet size of 11x17 inches or smaller;
- 2701
- 2702 C) The requirements of Section 219.407(a)(4) of this Subpart shall not
2703 apply to up to a total of 416.3 liters (110 gallons) per year of
2704 cleaning materials used on all lithographic printing lines at the
2705 source;
- 2706
- 2707 D) The requirements of Section 219.407(a)(4)(A)(i) shall not apply to
2708 lithographic printing lines at the source. Instead, the requirements
2709 of Section 219.407(a)(4)(A)(ii) shall apply to such lines.
- 2710
- 2711 de) If a lithographic printing line at a source is or becomes subject to one or more of
2712 the limitations in ~~Section~~Sections 219.406 or 219.407 of this Subpart, the
2713 lithographic printing ~~lines~~ line(s) at the source are always subject to the applicable
2714 provisions of this Subpart.

2715

2716 (Source: Amended at 34 Ill. Reg. _____, effective _____)

2717

2718 **Section 219.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to**
2719 **March 15, 1996 (Repealed)**

- 2720
- 2721 ~~a) Emission Standards and Limitations. No owner or operator of a heatset web~~
2722 ~~offset printing line at a source that meets or exceeds the applicability levels in~~
2723 ~~Section 219.405(a) of this Subpart may cause or allow the operation of such~~
2724 ~~heatset web offset printing line(s) unless the owner or operator meets the~~
2725 ~~requirements in subsections (a)(1) or (a)(2) of this Section and the requirements in~~
2726 ~~subsections (a)(3) and (a)(4) of this Section. The owner or operator shall~~
2727 ~~demonstrate compliance with this Section by using the applicable test methods~~
2728 ~~and procedures specified in Section 219.105(a), (d), and (f) of this Part and by~~
2729 ~~complying with the recordkeeping and reporting requirements specified in~~
2730 ~~subsection (b) of this Section.~~
- 2731
- 2732 ~~1) An afterburner system is installed and operated that reduces 90 percent of~~
2733 ~~the VOM emissions (excluding methane and ethane) from the dryer~~
2734 ~~exhaust; or~~
- 2735
- 2736 ~~2) The fountain solution contains no more than 8 percent, by weight, of~~
2737 ~~VOM and a condensation recovery system is installed and operated that~~
2738 ~~removes at least 75 percent of the non-isopropyl alcohol organic materials~~
2739 ~~from the dryer exhaust; and~~
- 2740

- 2741 3) The control device is equipped with the applicable monitoring equipment
2742 specified in Section 219.105(d)(2) of this Part and the monitoring
2743 equipment is installed, calibrated, operated and maintained according to
2744 manufacturer's specifications at all times when the control device is in use;
2745 and
2746
- 2747 4) The control device is operated at all times when the printing line is in
2748 operation.
2749
- 2750 b) Recordkeeping and Reporting. ~~The VOM content of each fountain solution and~~
2751 ~~ink and the efficiency of each control device shall be determined by the applicable~~
2752 ~~test methods and procedures specified in Section 219.105 of this Part to establish~~
2753 ~~the records required under this subsection.~~
2754
- 2755 1) Any owner or operator of a lithographic printing line which is exempted
2756 from the limitations of subsection (a) of this Section because of the criteria
2757 in 219.405(a) of this Subpart shall comply with the following:
2758
- 2759 A) By a date consistent with Section 219.106 of this Part, the owner or
2760 operator of a heatset web offset lithographic printing line to which
2761 subsection (b)(1) of this Section is applicable shall certify to the
2762 Agency that the heatset web offset lithographic printing line is
2763 exempt under the provisions of Section 219.405(a) of this Subpart.
2764 Such certification shall include:
2765
- 2766 i) A declaration that the heatset web offset lithographic
2767 printing line is exempt from the limitations of subsection
2768 (a) of this Section because of the criteria in Section
2769 219.405(a) of this Subpart; and
2770
- 2771 ii) Calculations which demonstrate that total maximum
2772 theoretical emissions of VOM from all heatset web offset
2773 lithographic printing lines at the source never exceed 90.7
2774 Mg (100 tons) per calendar year before the application of
2775 air pollution control equipment. Total maximum theoretical
2776 emissions of VOM for a heatset web offset lithographic
2777 printing source is the sum of maximum theoretical
2778 emissions of VOM from each heatset web offset
2779 lithographic printing line at the source. The following
2780 equation shall be used to calculate total maximum
2781 theoretical emissions of VOM per calendar year in the
2782 absence of air pollution control equipment for each heatset
2783 web offset lithographic printing line at the source:

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

where:

- E_p = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lb/yr);
- A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal) of solids;
- B = Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/yr (gal/yr). The 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);
- 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/l (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.

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- B) On and after a date consistent with Section 219.106 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 219.106 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 219.405(a) of this Subpart shall notify the Agency of any record showing 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 219.106 of this Part, or upon initial start-up of a new printing line, or upon changing the method of compliance for an existing printing line from subsection (a)(2) to (a)(1) of this Section, perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject printing line will be in compliance with subsection (a)(1) of this Section on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date;
 - B) On and after a date consistent with Section 219.106 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:

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- 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 non-routine maintenance performed including dates and duration of any outages;~~
- 2840 ⊖) ~~On and after a date consistent with Section 219.106 of this Part,~~
2841 ~~notify the Agency in the following instances:~~
- 2842
2843 i) ~~Any violation of subsection (a)(1) of this Section shall be~~
2844 ~~reported to the Agency, in writing, within 30 days~~
2845 ~~following the occurrence of the violation;~~
 - 2846
2847 ii) ~~Any record showing a violation of subsection (a)(1) of this~~
2848 ~~Section shall be reported by sending a copy of such record~~
2849 ~~to the Agency within 30 days following the occurrence of~~
2850 ~~the violation; and~~
 - 2851
2852 iii) ~~At least 30 calendar days before changing the method of~~
2853 ~~compliance with subsection (a) of this Section from~~
2854 ~~subsection (a)(1) to (a)(2) of this Section, the owner or~~
2855 ~~operator shall comply with all requirements of subsection~~
2856 ~~(b)(3)(A) of this Section. Upon changing the method of~~
2857 ~~compliance with subsection (a) of this Section from~~
2858 ~~subsection (a)(1) to (a)(2) of this Section, the owner or~~
2859 ~~operator shall comply with all requirements of subsection~~
2860 ~~(b)(3) of this Section.~~
- 2861
2862 3) ~~Any owner or operator of a printing line subject to the limitations of~~
2863 ~~subsection (a) of this Section and complying by means of subsection (a)(2)~~
2864 ~~of this Section shall:~~
- 2865
2866 A) ~~By a date consistent with Section 219.106 of this Part, or upon~~
2867 ~~initial start up of a new printing line, or upon changing the method~~
2868 ~~of compliance for an existing printing line from subsection (a)(1)~~
2869 ~~to (a)(2) of this Section, perform all tests and submit to the Agency~~
2870 ~~and the USEPA the results of all tests and calculations necessary to~~
2871 ~~demonstrate that the subject printing line will be in compliance~~
2872 ~~with subsection (a)(2) of this Section on and after a date consistent~~

2873 with Section 219.106 of this Part, or on and after the initial start up
2874 date;

2875
2876 B) On and after a date consistent with Section 219.106 of this Part, or
2877 on and after the initial start up date, collect and record the
2878 following information each day for each printing line and maintain
2879 the information at the source for a period of three years:

2880
2881 i) The VOM content of the fountain solution used each day
2882 on each printing line;

2883
2884 ii) A log of operating time for the control device and the
2885 associated printing line; and

2886
2887 iii) A maintenance log for the control device detailing all
2888 routine and non-routine maintenance performed including
2889 dates and duration of any outages;

2890
2891 C) On and after a date consistent with Section 219.106 of this Part,
2892 notify the Agency in the following instances:

2893
2894 i) Any violation of subsection (a)(2) shall be reported to the
2895 Agency, in writing, within 30 days following the
2896 occurrence of the violation;

2897
2898 ii) Any record showing a violation of subsection (a)(2) of this
2899 Section shall be reported by sending a copy of such record
2900 to the Agency within 30 days following the occurrence of
2901 the violation; and

2902
2903 iii) At least 30 calendar days before changing the method of
2904 compliance with subsection (a) of this Section from
2905 subsection (a)(2) to (a)(1) of this Section, the owner or
2906 operator shall comply with all requirements of subsection
2907 (b)(2)(A) of this Section. Upon changing the method of
2908 compliance with subsection (a) of this Section from
2909 subsection (a)(2) to (a)(1) of this Section, the owner or
2910 operator shall comply with all requirements of subsection
2911 (b)(2) of this Section.

2912
2913 e) Compliance Schedule. Every owner or operator of a heatset web offset
2914 lithographic printing line shall comply with the applicable requirements of
2915 subsections (a) and (b) of this Section in accordance with the applicable

2916 ~~compliance schedule specified in subsections (c)(1), (c)(2), or (c)(3) of this~~
 2917 ~~Section:~~

- 2918
- 2919 1) ~~No owner or operator of a heatset web offset lithographic printing line~~
 2920 ~~which is exempt from the limitations of subsection (a) of this Section~~
 2921 ~~because of the criteria in Section 219.405(a) of this Subpart shall operate~~
 2922 ~~said printing line on or after a date consistent with Section 219.106 of this~~
 2923 ~~Part, unless the owner or operator has complied with, and continues to~~
 2924 ~~comply with, Sections 219.405(a) and 219.406 (b)(1) of this Subpart.~~
- 2925
- 2926 2) ~~No owner or operator of a heatset web offset lithographic printing line~~
 2927 ~~complying by means of subsection (a)(1) of this Section shall operate said~~
 2928 ~~printing line on or after a date consistent with Section 219.106 of this Part,~~
 2929 ~~unless the owner or operator has complied with, and continues to comply~~
 2930 ~~with, subsections (a)(1), (a)(3), (a)(4) and (b)(2) of this Section.~~
- 2931
- 2932 3) ~~No owner or operator of a heatset web offset lithographic printing line~~
 2933 ~~complying by means of subsection (a)(2) of this Section shall operate said~~
 2934 ~~printing line on or after a date consistent with Section 219.106 of this Part,~~
 2935 ~~unless the owner or operator has complied with, and continues to comply~~
 2936 ~~with, subsections (a)(2), (a)(3), (a)(4) and (b)(3) of this Section.~~

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2938 (Source: Repealed at 34 Ill. Reg. _____, effective _____)

2939

2940 **Section 219.407 Emission Limitations and Control Requirements for Lithographic**
 2941 **Printing Lines On and After March 15, 1996**

- 2942
- 2943 a) ~~No~~ On and after March 15, 1996, no owner or operator of lithographic printing
 2944 lines ~~line(s)~~ subject to the requirements of this Subpart shall:
- 2945
- 2946 1) Cause or allow the operation of any heatset web offset lithographic
 2947 printing line unless:
- 2948
- 2949 A) The total VOM content in the as-applied fountain solution meets
 2950 one of the following conditions:
- 2951
- 2952 i) 1.6 percent or less, by weight~~volume~~;
- 2953
- 2954 ii) 3 percent or less, by weight~~volume~~, and the temperature of
 2955 the fountain solution is maintained below 15.6° C (60° F),
 2956 measured at the reservoir or the fountain tray; or
- 2957
- 2958 iii) 5 percent or less, by weight~~volume~~, and the as-applied

fountain solution contains no alcohol;

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- 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 219.410(c) of this Subpart ~~is equipped with the applicable monitoring equipment specified in Section 219.105(d)(2) of this Part and the monitoring equipment is installed, calibrated, operated, and maintained according to manufacturer's specifications at all times when the afterburner is in use; and~~
 - 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 219.107 of this Part;
- 2) Cause or allow the operation of any non-heatset web offset lithographic printing line unless the VOM content of the as-applied fountain solution is 5 percent or less, by weight~~volume~~, and the as-applied fountain solution contains no alcohol;
 - 3) Cause or allow the operation of any sheet-fed offset lithographic printing line unless:

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- A) The VOM content of the as-applied fountain solution is 5 percent or less, by ~~weight~~volume; or
 - B) The VOM content of the as-applied fountain solution is 8.5 percent or less, by ~~weight~~volume, and the temperature of the fountain solution is maintained below 15.6°C (60°F), measured at the reservoir or the fountain tray;
- 4) Cause or allow the use of a cleaning solution on any lithographic printing line unless:
- A) The VOM content of the as-used cleaning solution is less than or equal to:
 - i) 30 percent, by weight; or
 - ii) On and after May 1, 2010, for owners or operators of sources that meet the applicability criteria in Section 219.405(c)(3) and do not certify pursuant to Section 219.411(g)(1)(B) that the source will not make use of any of the exclusions in Section 219.405(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° C (68° F);
- 5) Cause or allow VOM containing cleaning materials, including used cleaning towels, associated with any lithographic printing line to be kept, stored or disposed of in any manner other than in closed containers, except when specifically in use.
- b) An owner or operator of a heatset web offset lithographic printing line subject to the requirements of Section 219.407(a)(1)(C) of this Subpart may use a control device other than an afterburner, if:
- 1) The control device reduces VOM emissions from the press dryer exhausts exhaust(s) 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

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- 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;
 - ii) By at least 95 percent, by weight, for control devices first 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 _____)

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3067 **Section 219.408 Compliance Schedule for Lithographic Printing On and After March 15,**
3068 **1996 (Repealed)**

- a) ~~Every owner or operator of a lithographic printing line subject to one or more of the control requirements of Section 219.407 of this Subpart shall comply with the applicable requirements of Sections 219.407 through 219.411 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 219.407 of this Subpart because of the criteria in Section 219.405(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 219.405(d) and 219.411(a) of this Subpart.~~

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

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3083 **Section 219.409 Testing for Lithographic Printing ~~On and After March 15, 1996~~**

- a) Testing to demonstrate compliance with the requirements of Section 219.407 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

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3088 shall be conducted at the expense of the owner or operator and the owner or
 3089 operator shall notify the Agency in writing 30 days in advance of conducting such
 3090 testing to allow the Agency to be present during such testing.
 3091

- 3092 b) The methods and procedures of Section 219.105(d) and (f) shall be used for
 3093 testing to demonstrate compliance with the requirements of Section
 3094 219.407(a)(1)(C) or (b)(1) of this Subpart, as follows:
 3095
- 3096 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60,
 3097 Appendix A, incorporated by reference at Section 219.112 of this Part.
 3098 The sampling sites for determining efficiency in reducing VOM from the
 3099 dryer exhaust shall be located between the dryer exhaust and the control
 3100 device inlet, and between the outlet of the control device and the exhaust
 3101 to the atmosphere;
 3102
 - 3103 2) To determine the volumetric flow rate of the exhaust stream, Method 2,
 3104 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by
 3105 reference at Section 219.112 of this Part;
 3106
 - 3107 3) To determine the VOM concentration of the exhaust stream entering and
 3108 exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60,
 3109 Appendix A, incorporated by reference at Section 219.112 of this Part.
 3110 For thermal and catalytic afterburners, Method 25 must be used except
 3111 under the following circumstances, in which case Method 25A must be
 3112 used:
 3113
 - 3114 A) The allowable outlet concentration of VOM from the control
 3115 device is less than 50 ppmv, as carbon;
 - 3116 B) The VOM concentration at the inlet of the control device and the
 3117 required level of control result in exhaust concentrations of VOM
 3118 of 50 ppmv, or less, as carbon; and
 - 3119 C) Due to the high efficiency of the control device, the anticipated
 3120 VOM concentration at the control device exhaust is 50 ppmv or
 3121 less, as carbon, regardless of inlet concentration. If the source
 3122 elects to use Method 25A under this option, the exhaust VOM
 3123 concentration must be 50 ppmv or less, as carbon, and the required
 3124 destruction efficiency must be met for the source to have
 3125 demonstrated compliance. If the Method 25A test results show
 3126 that the required destruction efficiency apparently has been met,
 3127 but the exhaust concentration is above 50 ppmv, as carbon, a retest
 3128 is required. The retest shall be conducted using either Method 25
 3129
 3130

3131 or Method 25A. If the retest is conducted using Method 25A and
 3132 the test results again show that the required destruction efficiency
 3133 apparently has been met, but the exhaust concentration is above 50
 3134 ppmv, as carbon, the source must retest using Method 25;
 3135

- 3136 4) Notwithstanding the criteria or requirements in Method 25 ~~that which~~
 3137 specifies a minimum probe temperature of 129C (265F), the probe must be
 3138 heated to at least the gas stream temperature of the dryer exhaust, typically
 3139 close to 176.7C (350F);
 3140
- 3141 5) During testing, the printing ~~lines~~ line(s) shall be operated at representative
 3142 operating conditions and flow rates; and
 3143
- 3144 6) During testing, an air flow direction indicating device, such as a smoke
 3145 stick, shall be used to demonstrate 100 percent emissions capture
 3146 efficiency for the dryer in accordance with Section 219.407(a)(1)(B) of
 3147 this Subpart.
 3148

3149 c) Testing to demonstrate compliance with the VOM content limitations in Section
 3150 219.407(a)(1)(A), (a)(2), (a)(3) and (a)(4)(A) of this Subpart, and to determine the
 3151 VOM content of fountain solutions, fountain solution additives, cleaning solvents,
 3152 cleaning solutions, and inks (pursuant to the requirements of Section
 3153 219.411(a)(1)(B), ~~(b)(1)(B)~~, or ~~(b)(2)(B)~~ of this Subpart, as applicable), shall be
 3154 conducted upon request of the Agency or as otherwise specified in this Subpart, as
 3155 follows:
 3156

- 3157 1) The applicable test methods and procedures specified in Section
 3158 219.105(a) of this Part shall be used; provided, however, Method 24,
 3159 incorporated by reference at Section 219.112 of this Part, shall be used to
 3160 demonstrate compliance; or
 3161
- 3162 2) The manufacturer's specifications for VOM content for fountain solution
 3163 additives, cleaning solvents, and inks may be used if such manufacturer's
 3164 specifications are based on results of tests of the VOM content conducted
 3165 in accordance with methods specified in Section 219.105(a) of this Part;
 3166 provided, however, Method 24 shall be used to determine compliance.
 3167

3168 d) Testing to demonstrate compliance with the requirements of Section 219.407(b)
 3169 of this Subpart shall be conducted as set forth in the owner or operator's plan
 3170 approved by the Agency and USEPA as federally enforceable permit conditions
 3171 pursuant to Section 219.407(b) of this Subpart.
 3172

3173 e) Testing to determine the VOM composite partial vapor pressure of cleaning

3174 solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be
3175 conducted in accordance with the applicable methods and procedures specified in
3176 Section 219.110 of this Part.
3177

3178 (Source: Amended at 34 Ill. Reg. _____, effective _____)
3179

3180 **Section 219.410 Monitoring Requirements for Lithographic Printing**
3181

3182 a) Fountain Solution Temperature.
3183

3184 1) The owner or operator of any lithographic printing ~~line(s)~~ line(s) relying on
3185 the temperature of the fountain solution to demonstrate compliance shall
3186 install, maintain, and continuously operate a temperature monitor of the
3187 fountain solution in the reservoir or fountain tray, as applicable.
3188

3189 2) The temperature monitor must be capable of reading with an accuracy of
3190 1° C or 2° F, and must be attached to an automatic, continuous recording
3191 device such as a strip chart, recorder, or computer, with at least the same
3192 accuracy, that is installed, calibrated and maintained in accordance with
3193 the manufacturer's specifications. If the automatic, continuous recording
3194 device malfunctions, the owner or operator shall record the temperature of
3195 the fountain solution at least once every two operating hours. The
3196 automatic, continuous recording device shall be repaired or replaced as
3197 soon as practicable.
3198

3199 b) Fountain Solution VOM Content. The owner or operator of any lithographic
3200 printing line(s) subject to Section 219.407(a)(1)(A), (a)(2) or (a)(3) of this
3201 Subpart shall:
3202

3203 1) For a fountain solution to which VOM is not added automatically:
3204

3205 A) Maintain records of the VOM content of the fountain solution in
3206 accordance with Section 219.411~~(ee)~~(2)(C); or
3207

3208 B) Take a sample of the as-applied fountain solution from the fountain
3209 tray or reservoir, as applicable, each time a fresh batch of fountain
3210 solution is prepared or each time VOM is added to an existing
3211 batch of fountain solution in the fountain tray or reservoir, and
3212 shall determine compliance with the VOM content limitation of the
3213 as-applied fountain solution by using one of the following options:
3214

3215 i) With a refractometer or hydrometer with a visual, analog,
3216 or digital readout and with an accuracy of 0.5 percent. The

3217 refractometer or hydrometer must be calibrated with a
 3218 standard solution for the type of VOM used in the fountain
 3219 solution, in accordance with manufacturer's specifications,
 3220 against measurements performed to determine compliance.
 3221 The refractometer or hydrometer must be corrected for
 3222 temperature at least once per 8-hour shift or once per batch
 3223 of fountain solution prepared or modified, whichever is
 3224 longer; or

3225
 3226 ii) With a conductivity meter if it is demonstrated that a
 3227 refractometer and hydrometer cannot distinguish between
 3228 compliant and noncompliant fountain solution for the type
 3229 and amount of VOM in the fountain solution. A source
 3230 may use a conductivity meter if it demonstrates that both
 3231 hydrometers and refractometers fail to provide significantly
 3232 different measurements for standard solutions containing
 3233 95 percent, 100 percent and 105 percent of the applicable
 3234 VOM content limit. The conductivity meter reading for the
 3235 fountain solution must be referenced to the conductivity of
 3236 the incoming water. A standard solution shall be used to
 3237 calibrate the conductivity meter for the type of VOM used
 3238 in the fountain solution, in accordance with manufacturer's
 3239 specifications;

3240
 3241 2) For fountain solutions to which VOM is added at the source with
 3242 automatic feed equipment, determine the VOM content of the as-applied
 3243 fountain solution based on the setting of the automatic feed equipment
 3244 which makes additions of VOM up to a pre-set level. Records must be
 3245 retained of the VOM content of the fountain solution in accordance with
 3246 Section 219.411(ee)(2)(D) of this Subpart. The equipment used to make
 3247 automatic additions must be installed, calibrated, operated and maintained
 3248 in accordance with manufacturer's specifications.

3249
 3250 c) Afterburners For Heatset Web Offset Lithographic Printing ~~Lines-Line(s)~~.
 3251 If an afterburner is used to demonstrate compliance, the owner or operator of a
 3252 heatset web offset lithographic printing line subject to Section 219.407(a)(1)(C)
 3253 of this Subpart shall:

3254
 3255 1) Install, calibrate, maintain, and operate temperature monitoring
 3256 ~~devices~~ ~~devi~~ee(s) with an accuracy of 3° C or 5 F° on the afterburner in
 3257 accordance with Section 219.105(d)(2) of this Part and in accordance with
 3258 the manufacturer's specifications. Monitoring shall be performed at all
 3259 times when the afterburner is operating; and

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

d) Other Control Devices for Heatset Web Offset Lithographic Printing Lines ~~Line(s)~~. 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 219.407(b) of this Subpart.

e) Cleaning Solution

1) The owner or operator of any lithographic printing line relying on the VOM content of the cleaning solution to comply with Section 219.407(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 219.407(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 219.411(~~f~~)(2) of this Subpart.

2) The owner or operator of any lithographic printing line relying on the vapor pressure of the cleaning solution to comply with Section 219.407(a)(4)(B) of this Subpart must keep records for such cleaning solutions used on any such lines ~~line(s)~~ as set forth in Section 219.411(~~f~~)(2)(C) of this Subpart.

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

Section 219.411 Recordkeeping and Reporting for Lithographic Printing

- a) Exempt units prior to May 1, 2010. An owner or operator of lithographic printing ~~lines~~line(s) exempt from the limitations of Section 219.407 of this Subpart prior to May 1, 2010, because of the criteria in Section 219.405(~~b~~) of this Subpart, shall comply with the following:
 - 1) Upon~~By March 15, 1996~~, upon initial start-up of a new lithographic printing line, and upon modification of a lithographic printing line, submit a certification to the Agency that includes:
 - A) A declaration that the source is exempt from the control requirements in Section 219.407 of this Part because of the criteria in Section 219.405(~~b~~) of this Subpart;
 - B) Calculations ~~that~~which demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, as follows:
 - i) To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from all lithographic printing lines at the source (including solvents used for cleanup operations associated with the lithographic printing lines) and divide this amount by the number of days during that calendar month that lithographic printing lines at the source were in operation;
 - ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the tests methods and procedures set forth in Section 219.409(c) of this Subpart shall be used;
 - iii) To determine VOM emissions from inks used on lithographic printing ~~lines~~line(s) 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

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shall be used in calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing ~~lines~~line(s); and

iv) To determine VOM emissions from fountain solutions and cleaning solvents used on lithographic printing line(s) 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). 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 219.406(b)(1)(A)(ii) of this Subpart; and~~

$$E_p = \frac{(R \times A \times B) + (C \times D) + 1095 (F \times G \times H)}{1000}$$

where:

E_d = Total maximum theoretical emissions of VOM from one heatset web offset printing line in units of kg/yr (lb/yr);

A = Weight of VOM per volume of solids of ink with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal) of solids;

- B ≡ Total volume of solids for all inks that can potentially be applied each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each ink as applied and the amount that can potentially be applied each year on the printing line shall be described in the certification to the Agency;
- C ≡ Weight of VOM per volume of fountain solution with the highest VOM content as applied each year on the printing line in units of kg/l (lb/gal);
- D ≡ The total volume of fountain solution that can potentially be used each year on the printing line in units of l/yr (gal/yr). The method by which the owner or operator accurately calculated the volume of each fountain solution used and the amount that can potentially be used each year on the printing line shall be described in the certification to the Agency;
- F ≡ Weight of VOM per volume of material for the cleanup material or solvent with the highest VOM content as used each year on the printing line in units of kg/l (lb/gal) of such material;
- G ≡ The greatest volume of cleanup material or solvent used in any 8-hour period;
- H ≡ The highest fraction of cleanup material or solvent that is not recycled or recovered for offsite disposal during any 8-hour period;
- R ≡ The multiplier representing the amount of VOM not retained in the substrate being used. For paper, R = 0.8. For metal, plastic, or other impervious substrates, R = 1.0;

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- 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 219.409(c)(1) of this Subpart;

3390 2) Notify the Agency in writing if the combined emissions of VOM from all
3391 lithographic printing lines (including inks, fountain solutions, and solvents
3392 used for cleanup operations associated with the lithographic printing lines)
3393 at the source ever exceed 45.5 kg/day (100 lbs/day), before the use of
3394 capture systems and control devices, within 30 days after the event occurs.
3395 Such notification shall include a copy of all records of such event.
3396

3397 b) Exempt units on and after May 1, 2010.
3398

3399 1) Lithographic printing lines exempt pursuant to Section 219.405(c)(2). By
3400 May 1, 2010, or upon initial start-up of a new lithographic printing line,
3401 whichever is later, and upon modification of a lithographic printing line,
3402 an owner or operator of lithographic printing lines exempt from the
3403 limitations in Section 219.407 of this Subpart because of the criteria in
3404 Section 219.405(c)(2) of this Subpart shall submit a certification to the
3405 Agency that includes the information specified in either subsections
3406 (b)(1)(A), (b)(1)(B) and (b)(1)(D) of this Section, or subsections (b)(1)(A)
3407 and (b)(1)(C) of this Section, as applicable. An owner or operator
3408 complying with subsection (b)(1)(B) shall also comply with the
3409 requirements in subsection (b)(1)(E) of this Section. An owner or operator
3410 complying with subsection (b)(1)(C) shall also comply with the
3411 requirements in subsection (b)(1)(F) of this Section:
3412

3413 A) A declaration that the source is exempt from the requirements in
3414 Section 219.407 of this Part because of the criteria in Section
3415 219.405(c)(2) of this Subpart;
3416

3417 B) Calculations that demonstrate that combined emissions of VOM
3418 from all lithographic printing lines (including inks, fountain
3419 solutions, and solvents used for cleanup operations associated with
3420 the lithographic printing lines) at the source do not equal or exceed
3421 6.8 kg/day (15 lbs/day), before the use of capture systems and
3422 control devices, as follows:
3423

3424 i) To calculate daily emissions of VOM, the owner or
3425 operator shall determine the monthly emissions of VOM
3426 from all lithographic printing lines at the source (including
3427 solvents used for cleanup operations associated with the
3428 lithographic printing lines) and divide this amount by the
3429 number of days during that calendar month that
3430 lithographic printing lines at the source were in operation;
3431

- 3432 ii) To determine the VOM content of the inks, fountain
3433 solution additives and cleaning solvents, the test methods
3434 and procedures set forth in Section 219.409(c) of this
3435 Subpart shall be used;
3436
- 3437 iii) To determine VOM emissions from inks used on
3438 lithographic printing lines at the source, an ink emission
3439 adjustment factor of 0.05 shall be used in calculating
3440 emissions from all non-heatset inks except when using an
3441 impervious substrate, and a factor of 0.80 shall be used in
3442 calculating emissions from all heatset inks to account for
3443 VOM retention in the substrate except when using an
3444 impervious substrate. For impervious substrates such as
3445 metal or plastic, no emission adjustment factor is used. The
3446 VOM content of the ink, as used, shall be multiplied by this
3447 factor to determine the amount of VOM emissions from the
3448 use of ink on the printing lines; and
3449
- 3450 iv) To determine VOM emissions from cleaning solutions used
3451 on lithographic printing lines at the source, an emission
3452 adjustment factor of 0.50 shall be used in calculating
3453 emissions from used shop towels if the VOM composite
3454 vapor pressure of each associated cleaning solution is less
3455 than 10 mmHg measured at 20° C (68° F) and the shop
3456 towels are kept in closed containers. For cleaning solutions
3457 with VOM composite vapor pressures of equal to or greater
3458 than 10 mmHg measured at 20° C (68° F) and for shop
3459 towels that are not kept in closed containers, no emission
3460 adjustment factor is used;
3461
- 3462 C) As an alternative to the calculations in subsection (b)(1)(B), a
3463 statement that the source uses less than the amount of material
3464 specified in subsection (b)(1)(C)(i) or (ii), as applicable, during
3465 each calendar month. A source may determine that it emits below
3466 6.8 kg/day (15 lbs/day) of VOM based upon compliance with such
3467 material use limitations. If the source exceeds this amount of
3468 material use in a given calendar month, the owner or operator
3469 must, within 15 days after the end of that month, complete the
3470 emissions calculations of subsection (b)(1)(B) to determine daily
3471 emissions for applicability purposes. If the source ever exceeds this
3472 amount of material use for six consecutive calendar months, it is
3473 no longer eligible to use this subsection (b)(1)(C) as an alternative
3474 to the calculations in subsection (b)(1)(B). If a source has both

3475 heatset web offset and either nonheatset web offset or sheetfed
3476 lithographic printing operations, or has all three types of printing
3477 operations, the owner or operator may not make use of this
3478 alternative and must use the calculations in subsection (b)(1)(B).
3479

3480 i) The sum of all sheetfed and nonheatset web offset
3481 lithographic printing operations at the source: 242.3liters
3482 (64 gallons) of cleaning solvent and fountain solution
3483 additives, combined; or
3484

3485 ii) The sum of all heatset web offset lithographic printing
3486 operations at the source: 204.1 kg (450 lbs) of ink, cleaning
3487 solvent, and fountain solution additives, combined;
3488

3489 D) A description and the results of all tests used to determine the
3490 VOM content of inks, fountain solution additives, and cleaning
3491 solvents, and a declaration that all such tests have been properly
3492 conducted in accordance with Section 219.409(c)(1) of this
3493 Subpart;
3494

3495 E) For sources complying with subsection (b)(1)(B) of this Section,
3496 notify the Agency in writing if the combined emissions of VOM
3497 from all lithographic printing lines (including inks, fountain
3498 solutions, and solvents used for cleanup operations associated with
3499 the lithographic printing lines) at the source ever equal or exceed
3500 6.8 kg/day (15 lbs/day), before the use of capture systems and
3501 control devices, within 30 days after the event occurs. If such
3502 emissions of VOM at the source equal or exceed 6.8 kg/day (15
3503 lbs/day) but do not exceed 45.5 kg/day (100 lbs/day), the source
3504 shall comply with the requirements in subsection (b)(2) of this
3505 Section;
3506

3507 F) For sources complying with subsection (b)(1)(C) of this Section,
3508 comply with the following:
3509

3510 i) Maintain material use records showing that the source uses
3511 less than the amount of material specified in subsections
3512 (b)(1)(C)(i) and (b)(1)(C)(ii) during each calendar month,
3513 or, if the source exceeds the material use limitations,
3514 records showing that the source exceeded the limitations
3515 but did not emit 6.8 kg/day (15 lbs/day) or more of VOM;
3516

3517 ii) Notify the Agency in writing if the source exceeds the
3518 material use limitations for six consecutive calendar
3519 months, or if the source changes its method of compliance
3520 from subsection (b)(1)(C) to subsection (b)(1)(B) of this
3521 Section, within 30 days after the event occurs;
3522

3523 2) Heatset web offset lithographic printing lines exempt pursuant to Section
3524 219.405(c)(1) but not exempt pursuant to Section 219.405(c)(2). By May
3525 1, 2010, or upon initial start-up of a new heatset web offset lithographic
3526 printing line, whichever is later, and upon modification of a heatset web
3527 offset lithographic printing line, an owner or operator of heatset web offset
3528 lithographic printing lines that are exempt from the limitations in Section
3529 219.407 of this Subpart pursuant to the criteria in Section 219.405(c)(1) of
3530 this Subpart, but that are not exempt pursuant to the criteria in Section
3531 219.405(c)(2) of this Subpart, shall submit a certification to the Agency
3532 that includes the information specified in subsections (b)(2)(A) through
3533 (b)(2)(C) of this Section. Such owner or operator shall also comply with
3534 the requirements in subsection (b)(2)(D) of this Section:
3535

3536 A) A declaration that the source is exempt from the control
3537 requirements in Section 219.407 of this Part because of the criteria
3538 in Section 219.405(c)(1) of this Subpart, but is not exempt
3539 pursuant to the criteria in Section 219.405(c)(2) of this Subpart;
3540

3541 B) Calculations that demonstrate that combined emissions of VOM
3542 from all lithographic printing lines (including inks, fountain
3543 solutions, and solvents used for cleanup operations associated with
3544 the lithographic printing lines) at the source never exceed 45.5
3545 kg/day (100 lbs/day) before the use of capture systems and control
3546 devices, as follows (the following methodology shall also be used
3547 to calculate whether a source exceeds 45.5 kg/day (100 lbs/day) for
3548 purposes of determining eligibility for the exclusions set forth in
3549 Section 219.405(c)(3), in accordance with Section
3550 219.411(g)(2)(A)(i)):
3551

3552 i) To calculate daily emissions of VOM, the owner or
3553 operator shall determine the monthly emissions of VOM
3554 from all lithographic printing lines at the source (including
3555 solvents used for cleanup operations associated with the
3556 lithographic printing lines) and divide this amount by the
3557 number of days during that calendar month that
3558 lithographic printing lines at the source were in operation;
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- ii) To determine the VOM content of the inks, fountain solution additives and cleaning solvents, the test methods and procedures set forth in Section 219.409(c) of this Subpart shall be used;
 - iii) To determine VOM emissions from inks used on lithographic printing lines at the source, an ink emission adjustment factor of 0.05 shall be used in calculating emissions from all non-heatset inks except when using an impervious substrate, and a factor of 0.80 shall be used in calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines;
 - iv) To determine VOM emissions from cleaning solvents used on lithographic printing 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 (68° F) and the shop towels are kept in closed containers. For cleaning solutions with VOM composite vapor pressures of equal to or greater than 10 mmHg measured at 20° C (68° F) and for shop towels that are not kept in closed containers, no emission adjustment factor is used;
- C) A description and the results of all tests used to determine the VOM content of inks, fountain solution additives, and cleaning solvents, and a declaration that all such tests have been properly conducted in accordance with Section 219.409(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.

3603 c2) Unless complying with subsections (b)(1)(C) and (b)(1)(F) of this Section, an
 3604 owner or operator of lithographic printing lines subject to the requirements of
 3605 subsection (a) or (b) of this Section shall~~On and after March 15, 1996, collect and~~
 3606 ~~record either the information specified in subsection (c)(1) or (c)(2)(a)(2)(A) or~~
 3607 ~~(a)(2)(B) of this Section for all lithographic printing lines at the source:~~

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 3609 1A) Standard recordkeeping, including the following:

- 3610 Ai) The name and identification of each fountain solution additive,
 3611 lithographic ink, and cleaning solvent used on any lithographic
 3612 printing line, recorded each month;
- 3613 Bi) A daily record which shows whether a lithographic printing line at
 3614 the source was in operation on that day;
- 3615 Ciii) The VOM content and the volume of each fountain solution
 3616 additive, lithographic ink, and cleaning solvent used on any
 3617 lithographic printing line, recorded each month;
- 3618 Di) The total VOM emissions at the source each month, determined as
 3619 the sum of the product of usage and VOM content for each
 3620 fountain solution additive, cleaning solvent, and lithographic ink
 3621 (with the applicable ink VOM emission adjustment) used at the
 3622 source, calculated each month; and
- 3623 Eiv) The VOM emissions in lbs/day for the month, calculated in
 3624 accordance with Section 218.411(a)(1)(B), ~~219.411(b)(1)(B), or~~
 3625 219.411(b)(2)(B) of this Subpart, as applicable;

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 3631 2B) Purchase and inventory recordkeeping, including the following:

- 3632 Ai) The name, identification, and VOM content of each fountain
 3633 solution additive, lithographic ink, and cleaning solvent used on
 3634 any lithographic printing line, recorded each month;
- 3635 Bi) Inventory records from the beginning and end of each month
 3636 indicating the total volume of each fountain solution additive,
 3637 lithographic ink, and cleaning solvent to be used on any
 3638 lithographic printing line at the source;
- 3639 Ciii) Monthly purchase records for each fountain solution additive,
 3640 lithographic ink, and cleaning solvent used on any lithographic
 3641 printing line at the source;

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Div) A daily record which shows whether a lithographic printing line at the source was in operation on that day;

Eiv) 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

Fvi) The VOM emissions in lbs/day for the month, calculated in accordance with Section 219.411(a)(1)(B), 219.411(b)(1)(B), or 219.411(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.~~

db) An owner or operator of a heatset web offset lithographic printing linesline(s) subject to the control requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart shall comply with the following:

1) By ~~May 1, 2010~~March 15, 1996, 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 219.407 (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

- 3689 comply with the requirements of Section 219.407(a)(1)(C) or
3690 (b)(1) of this Subpart and the date that such device was first
3691 constructed at the source;
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- 3693 D) The control requirements in Section 219.407(a)(1)(C) or (b)(1) of
3694 this Subpart with which the lithographic printing line is complying;
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- 3696 E) The results of all tests and calculations necessary to demonstrate
3697 compliance with the control requirements of Section
3698 219.407(a)(1)(C) or (b)(1) of this Subpart, as applicable; and
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- 3700 F) A declaration that the monitoring equipment required under
3701 Section 219.407(a)(1)(D) or (b) of this Subpart, as applicable, has
3702 been properly installed and calibrated according to manufacturer's
3703 specifications;
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- 3705 2) If testing of the afterburner or other approved control device is conducted
3706 pursuant to Section 219.409(b) of this Subpart, the owner or operator
3707 shall, within 90 days after conducting such testing, submit a copy of all
3708 test results to the Agency and shall submit a certification to the Agency
3709 that includes the following:
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- 3711 A) A declaration that all tests and calculations necessary to
3712 demonstrate whether the lithographic printing ~~lines~~line(s) is in
3713 compliance with Section 219.407(a)(1)(C) or (b)(1) of this
3714 Subpart, as applicable, have been properly performed;
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- 3716 B) A statement whether the lithographic printing ~~lines~~line(s) is or is
3717 not in compliance with Section 219.407(a)(1)(C) or (b)(1) of this
3718 Subpart, as applicable; and
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- 3720 C) The operating parameters of the afterburner or other approved
3721 control device during testing, as monitored in accordance with
3722 Section 219.410(c) or (d) of this Subpart, as applicable;
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- 3724 3) Except as provided in subsection (d)(3)(D)(ii) of this Section~~On and after~~
3725 ~~March 15, 1996~~, collect and record daily the following information for
3726 each heatset web offset lithographic printing line subject to the
3727 requirements of Section 219.407(a)(1)(C) or (b)(1) of this Subpart:
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- 3729 A) Afterburner or other approved control device monitoring data in
3730 accordance with Section 219.410(c) or (d) of this Subpart, as
3731 applicable;

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- 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~~insure compliance with the requirements of Section 219.407(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;
- 4) ~~Notify~~On and after March 15, 1996, notify the Agency in writing of any violation of Section 219.407(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 219.407 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 ~~lines~~line(s) will be in compliance with the requirements of Section 219.407(a)(1)(B), (a)(1)(C), (a)(1)(D) and (a)(1)(E) of this Subpart, or Section 219.407(b) of this Subpart, as applicable.
- ee) An owner or operator of a lithographic printing line subject to Section 219.407(a)(1)(A), (a)(2), or (a)(3) of this Subpart, shall:
 - 1) 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:

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- 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 219.407(a)(1)(A), (a)(2), or (a)(3), as applicable;~~The VOM content limitation with which each fountain solution will comply;~~
 - D) Initial documentation that each type of fountain solution will comply with the applicable VOM content ~~limitations~~limitation, including copies of manufacturer's specifications, test results, if any, formulation data and calculations;
 - E) Identification of the ~~methods~~method 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 219.411~~(ee)~~(2) of this Subpart.
- 2) ~~Collect~~On and after March 15, 1996, collect and record the following information for each fountain solution:
- A) The name and identification of each batch of fountain solution prepared for use on one or more lithographic printing lines, the lithographic printing ~~lines~~line(s) 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 219.410(b)(1)(B), to demonstrate compliance with the applicable VOM content limit in Section 219.407(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;

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- ii) The results of each measurement taken in accordance with Section 219.410(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 219.410(b)(1)(A) of this Subpart, for each batch of as-applied fountain solution:
- i) Date and time of preparation and each subsequent modification of the batch;
 - ii) Volume or weight, as applicable, and VOM content of each component used in, or subsequently added to, the fountain solution batch;
 - iii) Calculated VOM content of the as-applied fountain solution; and
 - iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Section 219.407(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 219.410(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's specifications; and

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- iv) Any other information necessary to demonstrate compliance with the applicable VOM content limits in Sections 219.407(a)(1)(A), (a)(2) and (a)(3) of this Subpart, as specified in the source's operating permit.
 - E) If the owner or operator relies on the temperature of the fountain solution to comply with the requirements in Section 219.407(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 219.410(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 219.407 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 219.407 of this Subpart, or changing the method of demonstrating compliance with the VOM content limitations for fountain solutions pursuant to Section 219.409 of this Subpart, certify compliance for such new method(s) in accordance with subsection (e)(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 219.407 of this Subpart.~~
 - f) For lithographic printing line cleaning operations, an owner or operator of a lithographic printing line subject to the requirements of Section 219.407 of this Subpart shall:
 - 1) By ~~May 1, 2010, March 15, 1996,~~ 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 219.405(c)(3)(C), and the handling of all cleaning materials, will be in compliance with the requirements of Section 219.407(a)(4)(A) or (a)(4)(B) and (a)(5) of this Subpart, and such certification shall also include:

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- A) Identification of each VOM containing cleaning solution used on each lithographic printing line;
 - ~~AB)~~ AB) A statement that the cleaning solution will comply with the limitations in Section 219.407(a)(4); The limitation with which each VOM containing cleaning solution will comply, i.e., the VOM content or vapor pressure;
 - ~~C)~~ 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;
 - ~~BD)~~ BD) Identification of the ~~methodsmethod~~ that will be used to demonstrate continuing compliance with the applicable limitations;
 - ~~CE)~~ CE) A sample of the records that will be kept pursuant to Section 219.411(~~f~~)(2) of this Subpart; and
 - ~~DF)~~ DF) A description of the practices that ~~ensure~~ assure that VOM-containing cleaning materials are kept in closed containers;
- 2) ~~Collect~~ On and after March 15, 1996, collect and record the following information for each cleaning solution used on each lithographic printing line:
- A) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(a)(4)(A) of this Subpart and ~~that~~ which is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.409(c) of this Subpart;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

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- iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;
- B) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.407(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 219.409(c) of this Subpart;
 - iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(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 219.407(a)(4)(B) of this Subpart:
- i) The name and identification of each cleaning solution;
 - ii) Date and time of preparation, and each subsequent

- 3990 modification, of the batch;
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 3992 iii) The molecular weight, density, and VOM composite partial
 3993 vapor pressure of each cleaning solvent, as determined in
 3994 accordance with Section 219.409(e) of this Subpart. For
 3995 cleaning solutions that are used as purchased, the
 3996 manufacturer's specifications for VOM composite partial
 3997 vapor pressure may be used if such manufacturer's
 3998 specifications are based on results of tests conducted in
 3999 accordance with methods specified in Sections 219.105(a)
 4000 and 219.110 of this Part;
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 4002 iv) The total amount of each cleaning solvent used to prepare
 4003 the as-used cleaning solution; and
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 4005 v) The VOM composite partial vapor pressure of each as-used
 4006 cleaning solution, as determined in accordance with Section
 4007 219.409(e) of this Subpart. For cleaning solutions that are
 4008 used as purchased, the manufacturer's specifications for
 4009 VOM composite partial vapor pressure may be used if such
 4010 manufacturer's specifications are based on results of tests
 4011 conducted in accordance with methods specified in
 4012 Sections 219.105(a) and 219.110 of this Part;
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 4014 D) The date, time and duration of scheduled inspections performed to
 4015 confirm the proper use of closed containers to control VOM
 4016 emissions, and any instances of improper use of closed containers,
 4017 with descriptions of actual practice and corrective action taken, if
 4018 any;
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 4020 3) ~~Notify On and after March 15, 1996, notify~~ the Agency in writing of any
 4021 violation of Section 219.407 of this Subpart within 30 days after the
 4022 occurrence of such violation. Such notification shall include a copy of all
 4023 records of such violation; ~~and~~
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 4025 4) ~~If changing its method of demonstrating compliance with the requirements~~
 4026 ~~of Section 219.407(a)(4) of this Subpart, or changing between automatic~~
 4027 ~~and manual methods of preparing cleaning solutions, certify compliance~~
 4028 ~~for such new method in accordance with subsection (d)(1) of this Section,~~
 4029 ~~within 30 days after making such change, and perform all tests and~~
 4030 ~~calculations necessary to demonstrate that such printing line(s) will be in~~
 4031 ~~compliance with the applicable requirements of Section 219.407(a)(4) of~~
 4032 ~~this Subpart.~~

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- g) The owner or operator of lithographic printing lines subject to one or more of the exclusions set forth in Section 219.405(c)(3) shall:
 - 1) 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 219.405(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 219.405(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 219.405(c)(3);
 - 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 219.405(c)(3):
 - A) Collect and record the following information for all lithographic printing lines at the source:
 - i) Calculations that demonstrate that combined emissions of VOM from all lithographic printing lines (including inks, fountain solutions, and solvents used for cleanup operations associated with the lithographic printing lines) at the source never exceed 45.5 kg/day (100 lbs/day) before the use of capture systems and control devices, determined in accordance with the calculations in Section 219.411(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 219.407(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;

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- 3) If changing from utilization of the exclusions set forth in Section 219.405(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 lines will be in compliance with the applicable requirements of Section 219.407 of this Subpart;
- 4) If changing from opting out of the exclusions set forth in Section 219.405(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.

he) 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 219.405 of this Subpart, sources may use the following emission adjustment factors (for Annual Emissions Reports or permit limits, for example):

- 1) A factor of 0.80 may be used in calculating emissions from all heatset inks to account for VOM retention in the substrate except when using an impervious substrate. For impervious substrates such as metal or plastic, no emission adjustment factor is used. The VOM content of the ink, as used, shall be multiplied by this factor to determine the amount of VOM emissions from the use of ink on the printing lines;
- 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:

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

where:

VOM_{tot} \equiv Total VOM in the fountain solution;

VOM_{fs} \equiv Total number of coatings applied in the can coating operation, i.e. all can coating lines at the source;

VOM_{fs} \equiv VOM emitted from the fountain solution;

DE \equiv 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, $DE = 0$;

4119
4120 For fountain solutions that contain alcohol, impervious substrates such as
4121 metal or plastic, or non-heatset lithographic presses, no emission
4122 adjustment factor is used;
4123

- 4124 3) To determine VOM emissions from cleaning solutions used on heatset
4125 web offset lithographic printing lines at the source, an emission
4126 adjustment factor of 0.50 may be used in calculating emissions from used
4127 shop towels if the VOM composite vapor pressure of each associated
4128 cleaning solution is less than 10 mmHg measured at 20° C (68° F) and the
4129 shop towels are kept in closed containers. To determine VOM emissions
4130 from automatic blanket wash solution with a VOM composite vapor
4131 pressure of less than 10 mmHg measured at 20° C (68° F), an emission
4132 adjustment factor may be used to account for carryover into the dryer,
4133 except when using an impervious substrate. The VOM emitted from the
4134 automatic blanket wash solution shall be calculated using the following
4135 equation:
4136

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

4137
4138 where:

4139 VOM_{tot} \equiv Total VOM in the blanket wash;

4140 VOM_{bw} \equiv VOM emitted from the blanket wash;

DE \equiv 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, $DE = 0$;

4141
4142 For cleaning solutions with VOM composite vapor pressures of equal to or
4143 greater than 10 mmHg measured at 20° C (68° F), for shop towels that are

4144 not kept in closed containers, and for impervious substrates such as metal
4145 or plastic, no emission adjustment factor is used.

4146
4147 (Source: Amended at 34 Ill. Reg. _____, effective _____)
4148

4149 **Section 219.412 Letterpress Printing Lines: Applicability**

4150
4151 a) Except as provided in subsection (b) of this Section, on and after May 1, 2010, the
4152 limitations in Sections 219.413 through 219.416 of this Subpart shall apply to:
4153

4154 1) All heatset web letterpress printing lines at a source if all heatset web
4155 letterpress printing lines (including solvents used for cleanup operations
4156 associated with heatset web letterpress printing lines) at the source have a
4157 total potential to emit 22.7 Mg (25 tons) or more of VOM per year; and
4158

4159 2) All letterpress printing lines at a source where the combined emissions of
4160 VOM from all letterpress printing lines at the source (including solvents
4161 used for cleanup operations associated with the letterpress printing lines)
4162 ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air
4163 pollution control equipment, calculated in accordance with Section
4164 219.417(b)(1)(B).
4165

4166 b) Notwithstanding subsection (a) of this Section, the requirements of Section
4167 219.413(a)(2) of this Subpart shall not apply to up to 416.3 liters (110 gallons) per
4168 year of cleaning materials used on letterpress printing lines at a subject source.
4169

4170 c) On and after May 1, 2010, the recordkeeping and reporting requirements in
4171 Section 219.417 of this Subpart shall apply to all owners or operators of
4172 letterpress printing lines.
4173

4174 d) If a letterpress printing line at a source is or becomes subject to one or more of the
4175 limitations in Section 219.413 of this Subpart, the letterpress printing lines at the
4176 source are always subject to the applicable provisions of this Subpart.
4177

4178 (Source: Added at 34 Ill. Reg. _____, effective _____)
4179

4180 **Section 219.413 Emission Limitations and Control Requirements for Letterpress Printing**
4181 **Lines**

4182
4183 a) No owner or operator of letterpress printing lines subject to the requirements of
4184 this Subpart shall:
4185

- 4186 1) Cause or allow the operation of any heatset web letterpress printing line
 4187 that meets the applicability requirements of Section 219.412(a)(1) unless:
 4188
 4189 A) The air pressure in the dryer is maintained lower than the air
 4190 pressure of the press room, such that air flow through all openings
 4191 in the dryer, other than the exhaust, is into the dryer at all times
 4192 when the printing line is operating;
 4193
 4194 B) An afterburner is installed and operated so that VOM emissions
 4195 (excluding methane and ethane) from the press dryer exhausts are
 4196 reduced as follows:
 4197
 4198 i) By 90 percent, by weight, for afterburners first constructed
 4199 at the source prior to January 1, 2010;
 4200
 4201 ii) By 95 percent, by weight, for afterburners first constructed
 4202 at the source on or after January 1, 2010; or
 4203
 4204 iii) To a maximum afterburner exhaust outlet concentration of
 4205 20 ppmv (as carbon);
 4206
 4207 C) The afterburner complies with all monitoring provisions specified
 4208 in Section 219.416(a) of this Subpart; and
 4209
 4210 D) The afterburner is operated at all times when the printing line is in
 4211 operation, except the afterburner may be shut down between
 4212 November 1 and April 1 as provided in Section 219.107 of this
 4213 Part;
 4214
 4215 2) Cause or allow the use of a cleaning solution on any letterpress printing
 4216 line unless:
 4217
 4218 A) The VOM content of the as-used cleaning solution is less than or
 4219 equal to 70 percent, by weight; or
 4220
 4221 B) The VOM composite partial vapor pressure of the as-used cleaning
 4222 solution is less than 10 mmHg at 20° C (68° F);
 4223
 4224 3) Cause or allow VOM-containing cleaning materials, including used
 4225 cleaning towels, associated with any letterpress printing line to be kept,
 4226 stored, or disposed of in any manner other than in closed containers,
 4227 except when specifically in use.
 4228

- 4229 b) An owner or operator of a heatset web letterpress printing line subject to the
4230 requirements of subsection (a)(1)(B) of this Section may use a control device
4231 other than an afterburner, if:
4232
4233 1) The control device reduces VOM emissions from the press dryer exhausts
4234 as follows:
4235
4236 A) By 90 percent, by weight, for control devices first constructed at
4237 the source prior to January 1, 2010;
4238
4239 B) By 95 percent, by weight, for control devices first constructed at
4240 the source on or after January 1, 2010; or
4241
4242 C) To a maximum control device exhaust outlet concentration of 20
4243 ppmv (as carbon);
4244
4245 2) The owner or operator submits a plan to the Agency detailing appropriate
4246 monitoring devices, test methods, recordkeeping requirements, and
4247 operating parameters for the control device; and
4248
4249 3) The use of the control device in accordance with this plan is approved by
4250 the Agency and USEPA as federally enforceable permit conditions.
4251

4252 (Source: Added at 34 Ill. Reg. _____, effective _____)
4253

4254 **Section 219.415 Testing for Letterpress Printing Lines**
4255

- 4256 a) Testing to demonstrate compliance with the requirements of Section 219.413 of
4257 this Subpart shall be conducted by the owner or operator within 90 days after a
4258 request by the Agency, or as otherwise specified in this Subpart. Such testing
4259 shall be conducted at the expense of the owner or operator, and the owner or
4260 operator shall notify the Agency in writing 30 days in advance of conducting such
4261 testing to allow the Agency to be present during such testing.
4262
4263 b) The methods and procedures of Section 219.105(d) and (f) shall be used for
4264 testing to demonstrate compliance with the requirements of Section
4265 219.413(a)(1)(B) or (b)(1) of this Subpart, as follows:
4266
4267 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60,
4268 Appendix A, incorporated by reference in Section 219.112 of this Part.
4269 The sampling sites for determining efficiency in reducing VOM from the
4270 dryer exhaust shall be located between the dryer exhaust and the control

- 4271 device inlet, and between the outlet of the control device and the exhaust
4272 to the atmosphere;
4273
4274 2) To determine the volumetric flow rate of the exhaust stream, Method 2,
4275 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by
4276 reference in Section 219.112 of this Part;
4277
4278 3) To determine the VOM concentration of the exhaust stream entering and
4279 exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60,
4280 Appendix A, incorporated by reference in Section 219.112 of this Part.
4281 For thermal and catalytic afterburners, Method 25 must be used except
4282 under the following circumstances, in which case Method 25A must be
4283 used:
4284
4285 A) The allowable outlet concentration of VOM from the control
4286 device is less than 50 ppmv, as carbon;
4287
4288 B) The VOM concentration at the inlet of the control device and the
4289 required level of control result in exhaust concentrations of VOM
4290 of 50 ppmv, or less, as carbon; and
4291
4292 C) Due to the high efficiency of the control device, the anticipated
4293 VOM concentration at the control device exhaust is 50 ppmv or
4294 less, as carbon, regardless of inlet concentration. If the source
4295 elects to use Method 25A under this option, the exhaust VOM
4296 concentration must be 50 ppmv or less, as carbon, and the required
4297 destruction efficiency must be met for the source to have
4298 demonstrated compliance. If the Method 25A test results show
4299 that the required destruction efficiency apparently has been met,
4300 but the exhaust concentration is above 50 ppmv, as carbon, a retest
4301 is required. The retest shall be conducted using either Method 25
4302 or Method 25A. If the retest is conducted using Method 25A and
4303 the test results again show that the required destruction efficiency
4304 apparently has been met, but the exhaust concentration is above 50
4305 ppmv, as carbon, the source must retest using Method 25;
4306
4307 4) Notwithstanding the criteria or requirements in Method 25 which specifies
4308 a minimum probe temperature of 129° C (265° F), the probe must be
4309 heated to at least the gas stream temperature of the dryer exhaust, typically
4310 close to 176.7° C (350° F);
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4312 5) During testing, the printing lines shall be operated at representative
4313 operating conditions and flow rates; and

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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 219.413(a)(1)(A) of this Subpart.

c) Testing to demonstrate compliance with the VOM content limitations in Section 219.413(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 219.417(b)(1)(B) of this Subpart), shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:

1) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 219.112 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 219.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance.

d) Testing to demonstrate compliance with the requirements of Section 219.413(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 219.413(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 219.110 of this Part.

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

Section 219.416 Monitoring Requirements for Letterpress Printing Lines

a) Afterburners for heatset web letterpress printing lines. If an afterburner is used to demonstrate compliance, the owner or operator of a heatset web letterpress printing line subject to Section 219.413(a)(1)(B) of this Subpart shall:

1) Install, calibrate, maintain, and operate temperature monitoring devices with an accuracy of 3° C or 5° F on the afterburner in accordance with

- 4357 Section 219.105(d)(2) of this Part and in accordance with the
4358 manufacturer's specifications. Monitoring shall be performed at all times
4359 when the afterburner is operating; and
4360
- 4361 2) Install, calibrate, operate, and maintain, in accordance with manufacturer's
4362 specifications, a continuous recorder on the temperature monitoring
4363 devices, such as a strip chart, recorder or computer, with at least the same
4364 accuracy as the temperature monitor.
4365
- 4366 b) Other control devices for heatset web letterpress printing lines. If a control device
4367 other than an afterburner is used to demonstrate compliance, the owner or
4368 operator of a heatset web letterpress printing line subject to this Subpart shall
4369 install, maintain, calibrate, and operate such monitoring equipment as set forth in
4370 the owner or operator's plan approved by the Agency and USEPA pursuant to
4371 Section 219.413(b) of this Subpart.
4372
- 4373 c) Cleaning solution.
4374
- 4375 1) The owner or operator of any letterpress printing line relying on the VOM
4376 content of the cleaning solution to comply with Section 219.413(a)(2)(A)
4377 of this Subpart must:
4378
- 4379 A) For cleaning solutions that are prepared at the source with
4380 equipment that automatically mixes cleaning solvent and water (or
4381 other non-VOM):
4382
- 4383 i) Install, operate, maintain, and calibrate the automatic feed
4384 equipment in accordance with manufacturer's specifications
4385 to regulate the volume of each of the cleaning solvent and
4386 water (or other non-VOM), as mixed; and
4387
- 4388 ii) Pre-set the automatic feed equipment so that the
4389 consumption rates of the cleaning solvent and water (or
4390 other non-VOM), as applied, comply with Section
4391 219.413(a)(2)(A) of this Subpart;
4392
- 4393 B) For cleaning solutions that are not prepared at the source with
4394 automatic feed equipment, keep records of the usage of cleaning
4395 solvent and water (or other non-VOM) as set forth in Section
4396 219.417(c)(2) of this Subpart.
4397
- 4398 2) The owner or operator of any letterpress printing line relying on the vapor
4399 pressure of the cleaning solution to comply with Section 219.413(a)(2)(B)

of this Subpart must keep records for such cleaning solutions used on any such lines as set forth in Section 219.417(e)(2)(C) of this Subpart.

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

Section 219.417 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 219.413 of this Subpart because of the criteria in Section 219.412(a)(1) shall submit a certification to the Agency that includes:

- 1) A declaration that the source is exempt from the requirements in Section 219.413 of this Subpart because of the criteria in Section 219.412(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 219.413 of this Subpart because of the criteria in Section 219.412(a)(2) shall:

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:

A) A declaration that the source is exempt from the control requirements in Section 219.413 of this Part because of the criteria in Section 219.412(a)(2) of this Subpart;

B) Calculations that demonstrate that combined emissions of VOM from all letterpress printing lines (including inks and solvents used for cleanup operations associated with the letterpress printing 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:

i) To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM

- 4443 from all letterpress printing lines at the source (including
 4444 solvents used for cleanup operations associated with the
 4445 letterpress printing lines) and divide this amount by the
 4446 number of days during that calendar month that letterpress
 4447 printing lines at the source were in operation;
 4448
- 4449 ii) To determine the VOM content of the inks and cleaning
 4450 solvents, the tests methods and procedures set forth in
 4451 Section 219.415(c) of this Subpart shall be used;
 4452
- 4453 iii) To determine VOM emissions from inks used on letterpress
 4454 printing lines at the source, an ink emission adjustment
 4455 factor of 0.05 shall be used in calculating emissions from
 4456 all non-heatset inks except when using an impervious
 4457 substrate, and a factor of 0.80 shall be used in calculating
 4458 emissions from all heatset inks to account for VOM
 4459 retention in the substrate except when using an impervious
 4460 substrate. For impervious substrates such as metal or
 4461 plastic, no emission adjustment factor is used. The VOM
 4462 content of the ink, as used, shall be multiplied by this factor
 4463 to determine the amount of VOM emissions from the use of
 4464 ink on the printing lines; and
 4465
- 4466 iv) To determine VOM emissions from cleaning solutions used
 4467 on letterpress printing lines at the source, an emission
 4468 adjustment factor of 0.50 shall be used in calculating
 4469 emissions from used shop towels if the VOM composite
 4470 vapor pressure of each associated cleaning solution is less
 4471 than 10 mmHg measured at 20° C (68° F) and the shop
 4472 towels are kept in closed containers. Otherwise, no
 4473 retention factor is used;
 4474
- 4475 C) A description and the results of all tests used to determine the
 4476 VOM content of inks and cleaning solvents, and a declaration that
 4477 all such tests have been properly conducted in accordance with
 4478 Section 219.415(c)(1) of this Subpart;
 4479
- 4480 D) As an alternative to the calculations in subsection (b)(1)(B), a
 4481 statement that the source uses less than the amount of material
 4482 specified in subsection (b)(1)(D)(i) or (b)(1)(D)(ii), as applicable,
 4483 during each calendar month. A source may determine that it emits
 4484 below 6.8 kg/day (15 lbs/day) of VOM based upon compliance
 4485 with such material use limitations. If the source exceeds this

4486 amount of material use in a given calendar month, the owner or
 4487 operator must, within 15 days of the end of that month, complete
 4488 the emissions calculations of subsection (b)(1)(B) to determine
 4489 daily emissions for applicability purposes. If the source ever
 4490 exceeds this amount of material use for six consecutive calendar
 4491 months, it is no longer eligible to use this subsection as an
 4492 alternative to the calculations in subsection (b)(1)(B). If a source
 4493 has both heatset web and either nonheatset web or sheetfed
 4494 letterpress printing operations, or has all three types of printing
 4495 operations, the owner or operator may not make use of this
 4496 alternative and must use the calculations in subsection (b)(1)(B).

4497
 4498 i) The sum of all sheetfed and nonheatset web letterpress
 4499 printing operations at the source: 242.3 liters (64 gallons)
 4500 of cleaning solvent; or

4501
 4502 ii) The sum of all heatset web letterpress printing operations at
 4503 the source: 204.1 kg (450 lbs) of ink and cleaning solvent;
 4504

4505 2) For sources complying with subsection (b)(1)(B) of this Section, notify the
 4506 Agency in writing if the combined emissions of VOM from all letterpress
 4507 printing lines (including inks and solvents used for cleanup operations
 4508 associated with the letterpress printing lines) at the source ever equal or
 4509 exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control
 4510 equipment, within 30 days after the event occurs;

4511
 4512 3) For sources complying with subsection (b)(1)(D) of this Section, comply
 4513 with the following:

4514
 4515 A) Maintain material use records showing that the source uses less
 4516 than the amount of material specified in subsections (b)(1)(D)(i)
 4517 and (b)(1)(D)(ii) during each calendar month, or, if the source
 4518 exceeds the material use limitations, records showing that the
 4519 source exceeded the limitations but did not emit 6.8 kg/day (15
 4520 lbs/day) or more of VOM;

4521
 4522 B) Notify the Agency in writing if the source exceeds the material use
 4523 limitations for six consecutive calendar months, or if the source
 4524 changes its method of compliance from subsection (b)(1)(D) to
 4525 subsection (b)(1)(B) of this Section, within 30 days after the event
 4526 occurs;
 4527

4528 c) Unless complying with subsection (b)(1)(D) and (b)(3) of this Section, on and
 4529 after May 1, 2010, an owner or operator of a letterpress printing line subject to the
 4530 requirements in subsections (a) or (b) of this Section shall collect and record
 4531 either the information specified in subsection (c)(1) or (c)(2) of this Section for all
 4532 letterpress printing lines at the source:

4533
 4534 1) Standard recordkeeping, including the following:

4535 A) The name and identification of each letterpress ink and cleaning
 4536 solvent used on any letterpress printing line, recorded each month;

4537 B) A daily record that shows whether a letterpress printing line at the
 4538 source was in operation on that day;

4539 C) The VOM content and the volume of each letterpress ink and
 4540 cleaning solvent used on any letterpress printing line, recorded
 4541 each month;

4542 D) The total VOM emissions at the source each month, determined as
 4543 the sum of the product of usage and VOM content for each
 4544 cleaning solvent and letterpress ink (with the applicable ink VOM
 4545 emission adjustment) used at the source, calculated each month;
 4546 and

4547 E) The VOM emissions in lbs/day for the month, calculated in
 4548 accordance with Section 219.417(b)(1)(B) of this Subpart;

4549
 4550 2) Purchase and inventory recordkeeping, including the following:

4551 A) The name, identification, and VOM content of each letterpress ink
 4552 and cleaning solvent used on any letterpress printing line, recorded
 4553 each month;

4554 B) Inventory records from the beginning and end of each month
 4555 indicating the total volume of each letterpress ink, and cleaning
 4556 solvent to be used on any letterpress printing line at the source;

4557 C) Monthly purchase records for each letterpress ink and cleaning
 4558 solvent used on any letterpress printing line at the source;

4559 D) A daily record that shows whether a letterpress printing line at the
 4560 source was in operation on that day;

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- 4571 E) The total VOM emissions at the source each month, determined as
4572 the sum of the product of usage and VOM content for each
4573 cleaning solvent and letterpress ink (with the applicable ink VOM
4574 emission adjustment factor) used at the source, calculated each
4575 month based on the monthly inventory and purchase records
4576 required to be maintained pursuant to subsections (c)(2)(A),
4577 (c)(2)(B), and (c)(2)(C) of this Section; and
- 4578
- 4579 F) The VOM emissions in lbs/day for the month, calculated in
4580 accordance with Section 219.417(b)(1)(B) of this Subpart;
4581
- 4582 d) An owner or operator of a heatset web letterpress printing lines subject to the
4583 control requirements of Section 219.413(a)(1)(B) or (b)(1) of this Subpart shall
4584 comply with the following:
4585
 - 4586 1) By May 1, 2010, or upon initial start-up of a new printing line, whichever
4587 is later, and upon initial start-up of a new control device for a heatset web
4588 printing line, submit a certification to the Agency that includes the
4589 following:
 - 4590
 - 4591 A) An identification of each heatset web letterpress printing line at the
4592 source;
 - 4593
 - 4594 B) A declaration that each heatset web letterpress printing line is in
4595 compliance with the requirements of Section 219.413 (a)(1) or (b)
4596 of this Subpart, as appropriate;
 - 4597
 - 4598 C) The type of afterburner or other approved control device used to
4599 comply with the requirements of Section 219.413(a)(1)(B) or
4600 (b)(1) of this Subpart, and the date that such device was first
4601 constructed at the subject source;
 - 4602
 - 4603 D) The control requirements in Section 219.413(a)(1)(B) or (b)(1) of
4604 this Subpart with which the letterpress printing line is complying;
 - 4605
 - 4606 E) The results of all tests and calculations necessary to demonstrate
4607 compliance with the control requirements of Section
4608 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable; and
4609
 - 4610 F) A declaration that the monitoring equipment required under
4611 Section 219.413(a)(1)(C) or (b) of this Subpart, as applicable, has
4612 been properly installed and calibrated according to manufacturer's
4613 specifications;

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- 2) If testing of the afterburner or other approved control device is conducted pursuant to Section 219.415(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 lines is in compliance with Section 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable, have been properly performed;
 - B) A statement whether the heatset web letterpress printing lines is or is not in compliance with Section 219.413(a)(1)(B) or (b)(1) of this Subpart, as applicable; and
 - C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 219.416(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 219.413(a)(1)(B) or (b)(1) of this Subpart:
 - A) Afterburner or other approved control device monitoring data in accordance with Section 219.416(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 219.413(a)(1)(A) of this Subpart at least once per calendar month while the line is operating;

- 4657 4) Notify the Agency in writing of any violation of Section 219.413(a)(1)(B)
4658 or (b)(1) of this Subpart within 30 days after the occurrence of such
4659 violation. Such notification shall include a copy of all records of such
4660 violation;
- 4661
- 4662 5) If changing the method of compliance between Sections 219.413(a)(1)(B)
4663 and 219.413(b) of this Subpart, certify compliance for the new method of
4664 compliance in accordance with Section 219.413(b) at least 30 days before
4665 making such change, and perform all tests and calculations necessary to
4666 demonstrate that such printing lines will be in compliance with the
4667 requirements of Section 219.413(a)(1) of this Subpart, or Section
4668 219.413(b) of this Subpart, as applicable.
- 4669
- 4670 e) For letterpress printing line cleaning operations, an owner or operator of a
4671 letterpress printing line subject to the requirements of Section 219.413 of this
4672 Subpart shall:
- 4673
- 4674 1) By May 1, 2010, or upon initial start-up of a new letterpress printing line,
4675 whichever is later, certify to the Agency that all cleaning solutions, other
4676 than those excluded pursuant to Section 219.412(b), and the handling of
4677 all cleaning materials will be in compliance with the requirements of
4678 Section 219.413(a)(2)(A) or (a)(2)(B) and (a)(3) of this Subpart. Such
4679 certification shall include:
- 4680
- 4681 A) A statement that the cleaning solution will comply with the
4682 limitations in Section 219.413(a)(2);
- 4683
- 4684 B) Identification of the methods that will be used to demonstrate
4685 continuing compliance with the applicable limitations;
- 4686
- 4687 C) A sample of the records that will be kept pursuant to Section
4688 219.417(e)(2) of this Subpart; and
- 4689
- 4690 D) A description of the practices that ensure that VOM-containing
4691 cleaning materials are kept in closed containers;
- 4692
- 4693 2) Collect and record the following information for each cleaning solution
4694 used on each letterpress printing line:
- 4695
- 4696 A) For each cleaning solution for which the owner or operator relies
4697 on the VOM content to demonstrate compliance with Section
4698 219.413(a)(2)(A) of this Subpart and that is prepared at the source
4699 with automatic equipment:

- 4700
- 4701 i) The name and identification of each cleaning solution;
- 4702
- 4703 ii) The VOM content of each cleaning solvent in the cleaning
- 4704 solution, as determined in accordance with Section
- 4705 219.415(c) of this Subpart;
- 4706
- 4707 iii) Each change to the setting of the automatic equipment, with
- 4708 date, time, description of changes in the cleaning solution
- 4709 constituents (e.g., cleaning solvents), and a description of
- 4710 changes to the proportion of cleaning solvent and water (or
- 4711 other non-VOM);
- 4712
- 4713 iv) The proportion of each cleaning solvent and water (or other
- 4714 non-VOM) used to prepare the as-used cleaning solution;
- 4715
- 4716 v) The VOM content of the as-used cleaning solution, with
- 4717 supporting calculations; and
- 4718
- 4719 vi) A calibration log for the automatic equipment, detailing
- 4720 periodic checks;
- 4721
- 4722 B) For each batch of cleaning solution for which the owner or
- 4723 operator relies on the VOM content to demonstrate compliance
- 4724 with Section 219.413(a)(2)(A) of this Subpart, and that is not
- 4725 prepared at the source with automatic equipment:
- 4726
- 4727 i) The name and identification of each cleaning solution;
- 4728
- 4729 ii) Date and time of preparation, and each subsequent
- 4730 modification, of the batch;
- 4731
- 4732 iii) The VOM content of each cleaning solvent in the cleaning
- 4733 solution, as determined in accordance with Section
- 4734 219.415(c) of this Subpart;
- 4735
- 4736 iv) The total amount of each cleaning solvent and water (or
- 4737 other non-VOM) used to prepare the as-used cleaning
- 4738 solution; and
- 4739
- 4740 v) The VOM content of the as-used cleaning solution, with
- 4741 supporting calculations. For cleaning solutions that are
- 4742 used as purchased, the manufacturer's specifications for

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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 219.105(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 219.413(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 219.415(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 219.105(a) and 219.110 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 219.415(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 219.105(a) and 219.110 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;

- 4786 E) The amount of cleaning materials used on letterpress printing lines
- 4787 at the source that do not comply with the cleaning material
- 4788 limitations set forth in Section 219.413(a)(2) of this Subpart;
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- 4790 3) Notify the Agency in writing of any violation of Section 219.413 of this
- 4791 Subpart within 30 days after the occurrence of such violation. Such
- 4792 notification shall include a copy of all records of such violation.
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- 4794 f) The owner or operator shall maintain all records required by this Section at the
- 4795 source for a minimum period of three years and shall make all records available to
- 4796 the Agency upon request.
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(Source: Added at 34 Ill. Reg. _____, effective _____)