

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: Organic Material Emission Standards and Limitations for the Chicago Area
- 2) Code citation: 35 Ill. Adm. Code 218
- 3) Section Number: 218.187 Proposed Action: Amend
- 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:

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In a recent filing with the Board, the Illinois Environmental Protection Agency (Agency) stated that language recently adopted in R10-8 contained a technical error. The Agency indicated that this error made it impossible for sources subject to the adopted regulations to comply with applicable limitations. The Agency noted that, although the Board had opened a subdocket in order to address a separate issue, no rulemaking proposal addressing that issue had been timely filed. The Agency proposed to proceed in subdocket as the most efficient way to adopt a correction.

For a more detailed description of this rulemaking, see the Board's August 19, 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(A))

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The Agency, which initiated the proceeding in this subdocket, did not indicate that it had used a published study or report in developing the proposed correction.
- 7) Will this rulemaking replace emergency rules 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 proposed rulemakings pending on this Part? Yes

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| <u>Section Numbers:</u> | <u>Proposed Action:</u> | <u>Illinois Register Citation:</u> |
|-------------------------|-------------------------|------------------------------------|
| 218.105 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.106 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.112 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.204 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.205 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.207 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.208 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.210 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.211 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.212 | Amend | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.219 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.890 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.891 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.892 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.894 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.900 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.901 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.902 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.903 | New | 34 Ill. Reg. 4335; April 2, 2010 |
| 218.904 | New | 34 Ill. Reg. 4335; April 2, 2010 |

- 11) Statement of statewide policy objective: This proposed rule does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 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(A) and be addressed to:

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

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

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

- 13) 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 engages in industrial solvent cleaning operations subject to the requirements of Section 218.187 and meeting the applicability thresholds specified in the proposed rulemaking.
 - B) Reporting, bookkeeping or other procedures required for compliance: The Agency indicates that the proposed rulemaking correct a technical error, and the proposal does not itself require the owner or operator of a subject source to make reports or conduct bookkeeping or other procedures for compliance.
 - 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 Amendment begins on the next page:

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

PART 218

ORGANIC MATERIAL EMISSION STANDARDS AND
LIMITATIONS FOR THE CHICAGO AREA

SUBPART A: GENERAL PROVISIONS

Section

- 218.100 Introduction
- 218.101 Savings Clause
- 218.102 Abbreviations and Conversion Factors
- 218.103 Applicability
- 218.104 Definitions
- 218.105 Test Methods and Procedures
- 218.106 Compliance Dates
- 218.107 Operation of Afterburners
- 218.108 Exemptions, Variations, and Alternative Means of Control or
Compliance Determinations
- 218.109 Vapor Pressure of Volatile Organic Liquids
- 218.110 Vapor Pressure of Organic Material or Solvent
- 218.111 Vapor Pressure of Volatile Organic Material
- 218.112 Incorporations by Reference
- 218.113 Monitoring for Negligibly-Reactive Compounds
- 218.114 Compliance with Permit Conditions

SUBPART B: ORGANIC EMISSIONS FROM STORAGE
AND LOADING OPERATIONS

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- 218.119 Applicability for VOL
- 218.120 Control Requirements for Storage Containers of VOL
- 218.121 Storage Containers of VPL
- 218.122 Loading Operations
- 218.123 Petroleum Liquid Storage Tanks
- 218.124 External Floating Roofs
- 218.125 Compliance Dates
- 218.126 Compliance Plan (Repealed)
- 218.127 Testing VOL Operations
- 218.128 Monitoring VOL Operations
- 218.129 Recordkeeping and Reporting for VOL Operations

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section

- 218.141 Separation Operations
- 218.142 Pumps and Compressors
- 218.143 Vapor Blowdown
- 218.144 Safety Relief Valves

SUBPART E: SOLVENT CLEANING

Section

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218.181 Solvent Cleaning Degreasing Operations
218.182 Cold Cleaning
218.183 Open Top Vapor Degreasing
218.184 Conveyorized Degreasing
218.185 Compliance Schedule (Repealed)
218.186 Test Methods
218.187 Other Industrial Solvent Cleaning Operations

SUBPART F: COATING OPERATIONS

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218.204 Emission Limitations
218.205 Daily-Weighted Average Limitations
218.206 Solids Basis Calculation
218.207 Alternative Emission Limitations
218.208 Exemptions from Emission Limitations
218.209 Exemption from General Rule on Use of Organic Material
218.210 Compliance Schedule
218.211 Recordkeeping and Reporting
218.212 Cross-Line Averaging to Establish Compliance for Coating Lines
218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating
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218.214 Changing Compliance Methods
218.215 Wood Furniture Coating Averaging Approach
218.216 Wood Furniture Coating Add-On Control Use
218.217 Wood Furniture Coating and Flat Wood Paneling coating Work Practice
Standards
218.218 Work Practice Standards for Paper Coatings, Metal Furniture
Coatings, and Large Appliance Coatings

SUBPART G: USE OF ORGANIC MATERIAL

Section

218.301 Use of Organic Material
218.302 Alternative Standard
218.303 Fuel Combustion Emission Units
218.304 Operations with Compliance Program

SUBPART H: PRINTING AND PUBLISHING

Section

218.401 Flexographic and Rotogravure Printing
218.402 Applicability
218.403 Compliance Schedule
218.404 Recordkeeping and Reporting
218.405 Lithographic Printing: Applicability
218.406 Provisions Applying to Heatset Web Offset Lithographic Printing
Prior to March 15, 1996 (Repealed)
218.407 Emission Limitations and Control Requirements for Lithographic
Printing Lines
218.408 Compliance Schedule for Lithographic Printing On and After March 15,
1996 (Repealed)
218.409 Testing for Lithographic Printing On and After March 15, 1996
218.410 Monitoring Requirements for Lithographic Printing
218.411 Recordkeeping and Reporting for Lithographic Printing
218.412 Letterpress Printing Lines: Applicability

218.413 Emission Limitations and Control Requirements for Letterpress
Printing Lines
218.415 Testing for Letterpress Printing Lines
218.416 Monitoring Requirements for Letterpress Printing Lines
218.417 Recordkeeping and Reporting for Letterpress Printing Lines

SUBPART Q: SYNTHETIC ORGANIC CHEMICAL
AND POLYMER MANUFACTURING PLANT

Section

218.421 General Requirements
218.422 Inspection Program Plan for Leaks
218.423 Inspection Program for Leaks
218.424 Repairing Leaks
218.425 Recordkeeping for Leaks
218.426 Report for Leaks
218.427 Alternative Program for Leaks
218.428 Open-Ended Valves
218.429 Standards for Control Devices
218.430 Compliance Date (Repealed)
218.431 Applicability
218.432 Control Requirements
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SUBPART R: PETROLEUM REFINING AND
RELATED INDUSTRIES; ASPHALT MATERIALS

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218.441 Petroleum Refinery Waste Gas Disposal
218.442 Vacuum Producing Systems
218.443 Wastewater (Oil/Water) Separator
218.444 Process Unit Turnarounds
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218.446 Monitoring Program Plan for Leaks
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218.448 Recordkeeping for Leaks
218.449 Reporting for Leaks
218.450 Alternative Program for Leaks
218.451 Sealing Device Requirements
218.452 Compliance Schedule for Leaks
218.453 Compliance Dates (Repealed)

SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section

218.461 Manufacture of Pneumatic Rubber Tires
218.462 Green Tire Spraying Operations
218.463 Alternative Emission Reduction Systems
218.464 Emission Testing
218.465 Compliance Dates (Repealed)
218.466 Compliance Plan (Repealed)

SUBPART T: PHARMACEUTICAL MANUFACTURING

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218.480 Applicability
218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges
and Vacuum Dryers
218.482 Control of Air Dryers, Production Equipment Exhaust Systems and
Filters
218.483 Material Storage and Transfer
218.484 In-Process Tanks
218.485 Leaks
218.486 Other Emission Units
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218.488 Monitoring for Air Pollution Control Equipment
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SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

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218.505 Reporting and Recordkeeping for Batch Operations
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218.520 Emission Limitations for Air Oxidation Processes
218.521 Definitions (Repealed)
218.522 Savings Clause
218.523 Compliance
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218.526 Testing and Monitoring
218.527 Compliance Date (Repealed)

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SUBPART X: CONSTRUCTION

Section
218.561 Architectural Coatings
218.562 Paving Operations
218.563 Cutback Asphalt

SUBPART Y: GASOLINE DISTRIBUTION

Section
218.581 Bulk Gasoline Plants
218.582 Bulk Gasoline Terminals
218.583 Gasoline Dispensing Operations - Storage Tank Filling Operations
218.584 Gasoline Delivery Vessels
218.585 Gasoline Volatility Standards
218.586 Gasoline Dispensing Operations - Motor Vehicle Fueling Operations

SUBPART Z: DRY CLEANERS

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218.601 Perchloroethylene Dry Cleaners (Repealed)
218.602 Applicability (Repealed)
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218.606 Exception to Compliance Plan (Repealed)
218.607 Standards for Petroleum Solvent Dry Cleaners
218.608 Operating Practices for Petroleum Solvent Dry Cleaners
218.609 Program for Inspection and Repair of Leaks
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218.611 Applicability for Petroleum Solvent Dry Cleaners
218.612 Compliance Dates (Repealed)
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SUBPART AA: PAINT AND INK MANUFACTURING

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218.620 Applicability
218.621 Exemption for Waterbase Material and Heatset-Offset Ink
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218.630 Clean Up
218.636 Compliance Schedule
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218.722 Control Requirements (Repealed)
218.726 Testing (Repealed)
218.727 Monitoring (Repealed)
218.728 Recordkeeping and Reporting (Repealed)
218.729 Compliance Date (Repealed)
218.730 Certification (Repealed)

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218.762 Control Requirements
218.764 Compliance Certification
218.766 Leaks
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SUBPART HH: MOTOR VEHICLE REFINISHING

Section
218.780 Emission Limitations
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218.784 Equipment Specifications
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218.787 Work Practices
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218.790 General Recordkeeping and Reporting (Repealed)
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218.875 Applicability of Subpart BB (Renumbered)
218.877 Emissions Limitation at Polystyrene Plants (Renumbered)
218.879 Compliance Date (Repealed)
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218.883 Special Requirements for Compliance Plan (Repealed)
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218.APPENDIX A List of Chemicals Defining Synthetic Organic Chemical and
Polymer Manufacturing
218.APPENDIX B VOM Measurement Techniques for Capture Efficiency (Repealed)
218.APPENDIX C Reference Methods and Procedures
218.APPENDIX D Coefficients for the Total Resource Effectiveness Index (TRE)
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218.APPENDIX E List of Affected Marine Terminals
218.APPENDIX G TRE Index Measurements for SOCM I Reactors and Distillation
Units
218.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section
218.212 Cross-Line Averaging

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

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991;
amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in
R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in
R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at
18 Ill. Reg. ~~at~~ 14945, effective January 24, 1994; amended in R94-12 at 18 Ill.
Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg.
16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950,
effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill.
Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359,
effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective
October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9,
1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998;
amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in

R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007; amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill. Reg. 5330, effective March 23, 2010; amended in R10-~~088~~ at 34 Ill. ~~Reg. Reg.~~ 9096, effective June 25, 2010; amended in R10-~~088~~(A) at 34 Ill. ~~Reg. Reg.~~ _____, effective _____.

SUBPART E: SOLVENT CLEANING

Section 218.187 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 that use organic materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of VOM from cleaning operations at the source, in the absence of air pollution control equipment. For purposes of this Section, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance, or servicing, including but not limited to spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning, at sources with emission units;

2) Notwithstanding subsection (a)(1) of this Section:

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

i) Cleaning operations subject to the limitations in Sections 218.182, 218.183, or 218.184;

ii) Janitorial cleaning;

iii) Stripping of cured coatings, inks, or adhesives, including screen reclamation activities;

iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning;

B) Cleaning operations for emission units within the following source categories shall be exempt from the requirements of subsections (b), (c), (d), (f), and (g) of this Section:

i) Aerospace coating;

ii) Flexible package printing;

iii) Lithographic printing;

iv) Letterpress printing;

v) Flat wood paneling coating;

vi) Large appliance coating;

- vii) Metal furniture coating;
- viii) Paper, film, and foil coating;
- ix) Wood furniture coating;
 - x) Shipbuilding and repair coating;
- xi) Plastic parts coating;
- xii) Miscellaneous metal parts coating;
- xiii) Fiberglass boat manufacturing;
- xiv) Miscellaneous industrial adhesives; and
- xv) Auto and light-duty truck assembly coating;

C) The following cleaning operations shall be exempt from the requirements of subsections (b), (c), (f), and (g) of this Section:

- i) Cleaning of solar cells, laser hardware, scientific instruments, and high-precision optics;
- 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 that are specifically exempted from the definitions 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 | gal |
| 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 | gal | Electrical apparatus components | and |
| | | | electronic components | |
| | | 0.10 | 0.83 | ii) Medical device and pharmaceutical manufacturing |
| 0.80 | 6.7 | | iii) Medical device and pharmaceutical manufacturing | tools, equipment, and machinery |
| | | 0.60 | 5.0 | general work surfaces |

C) Cleaning of ink application equipment:

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

D) All other cleaning operations not ~~kg/l~~ 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 20°C (68°F); or

3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85 percent

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

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

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

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

2) Minimize air circulation around the cleaning operation;

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 218.187(a)(1) of this Subpart shall comply with the following:

A) By April 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:

i) A declaration that the source is exempt from the requirements of this Section because of the criteria in Section 218.187(a)(1);

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;

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 218.187(d); and

vii) A description of each cleaning operation exempt pursuant to Section 218.187(a)(2), if any, and a listing of the emission 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 ~~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 that is not prepared at the source with automatic equipment:

i) The name and identification of each cleaning solution;

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

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

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

v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part;

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 218.110 of this Part;

D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and

E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 218.110 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 218.187(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 218.187(g) of this Subpart, the owner or operator shall, within 90 days after conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:

i) A declaration that all tests and calculations necessary to demonstrate compliance with Section 218.187(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 218.187(b)(3) of this Subpart; and

iii) The operating parameters of the emissions control system during testing, as monitored in accordance with Section 218.187(f) of this Subpart;

C) Collect and record daily the following information for each cleaning operation subject to the requirements of Section 218.187(b)(3) of this Subpart:

i) Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;

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 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 218.187(b) (3) of this Subpart shall:

A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3~~e~~ ~~CoC~~ or 5~~e~~ ~~FoF~~ on the emissions control system in accordance with Section 218.105(d) (2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and

B) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring 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 218.187(b) (3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.187(b) (3).

g) Testing Requirements~~-~~

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 218.187(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 218.105(a) of this Part shall be used~~-~~; provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, shall be used to demonstrate compliance; or

B) The manufacturer's specifications for VOM content for cleaning solvents may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part~~-~~; 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 218.110 of this Part;

4) For afterburners and carbon adsorbers, the methods and procedures of Section 218.105(d) through (f) shall be used for testing to demonstrate compliance with the requirements of Section 218.187(b)(3) of this Subpart, as follows:

A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 218.112 of this Part;

B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 218.112 of this Part;

C) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 218.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

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

ii) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and

iii) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv

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

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

5) An owner or operator using an emissions control system other than an afterburner or carbon adsorber shall conduct testing to demonstrate compliance with the requirements of Section 218.187(b)(3) of this Subpart as set forth in the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 218.187(b)(3) of this Subpart.

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

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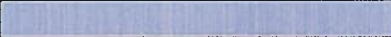

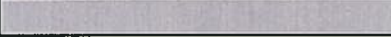


~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENT~~

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1ST NOTICE VERSION

JCAR350218-1013020r01

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378 AUTHORITY: Implementing Section 10 and authorized by Sections 27 and 28 of the
 379 Environmental Protection Act [415 ILCS 5/10, 27 and 28].
 380

381 SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-
 382 24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill.
 383 Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective
 384 September 27, 1993; amended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994;
 385 amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at
 386 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950,
 387 effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848,

388 effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995;
 389 amended in R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21
 390 Ill. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective
 391 February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in
 392 R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684,
 393 effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007;
 394 amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill.
 395 Reg. 5330, effective March 23, 2010; amended in R10-8 at 34 Ill. Reg. 9096, effective June 25,
 396 2010; amended in R10-8(A) at 34 Ill. Reg. _____, effective _____.

397
 398 **SUBPART E: SOLVENT CLEANING**

399
 400 **Section 218.187 Other Industrial Solvent Cleaning Operations**

- 401
- 402 a) **Applicability. On and after April 1, 2011:**
- 403
- 404 1) Except as provided in subsection (a)(2) of this Section, the requirements of
- 405 this Section shall apply to all cleaning operations that use organic
- 406 materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of
- 407 VOM from cleaning operations at the source, in the absence of air
- 408 pollution control equipment. For purposes of this Section, "cleaning
- 409 operation" means the process of cleaning products, product components,
- 410 tools, equipment, or general work areas during production, repair,
- 411 maintenance, or servicing, including but not limited to spray gun cleaning,
- 412 spray booth cleaning, large and small manufactured components cleaning,
- 413 parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank
- 414 cleaning, at sources with emission units;
- 415
- 416 2) Notwithstanding subsection (a)(1) of this Section:
- 417
- 418 A) The following cleaning operations shall be exempt from the
- 419 requirements of subsections (b), (c), (d), (f), and (g) of this
- 420 Section:
- 421
- 422 i) Cleaning operations subject to the limitations in Sections
- 423 218.182, 218.183, or 218.184;
- 424
- 425 ii) Janitorial cleaning;
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- 427 iii) Stripping of cured coatings, inks, or adhesives, including
- 428 screen reclamation activities;
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- iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning;
 - B) Cleaning operations for emission units within the following 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;

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- ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;
 - iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal 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;

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- 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 definitions 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 |
|--|------|--------|
| i) Electrical apparatus components and electronic components | 0.10 | 0.83 |
| ii) Medical device and pharmaceutical manufacturing | 0.80 | 6.7 |

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B) Repair and maintenance cleaning:

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

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C) Cleaning of ink application equipment:

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

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

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|----|---|-------|--------|
| | | kg/l | lb/gal |
| D) | All other cleaning operations not 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 20°C (68°F); or
- 3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85 percent overall. The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if such device reduces VOM emissions from the subject cleaning operation by at least 85 percent overall, the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for such control device, and such plan is approved by the Agency and USEPA within federally enforceable permit conditions.

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

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

- 1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;
- 2) Minimize air circulation around the cleaning operation;

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- 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 218.187(a)(1) of this Subpart shall comply with the following:
 - A) By April 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - i) A declaration that the source is exempt from the requirements of this Section because of the criteria in Section 218.187(a)(1);
 - 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;

- 614 iii) If complying with the emissions control system
615 requirement, what type of emissions control system will be
616 used;
- 617
- 618 iv) Initial documentation that each subject cleaning operation
619 will comply with the applicable limitation, including copies
620 of manufacturer's specifications, test results (if any),
621 formulation data, and calculations;
- 622
- 623 v) Identification of the methods that will be used to
624 demonstrate continuing compliance with the applicable
625 limitations;
- 626
- 627 vi) A description of the practices and procedures that the
628 source will follow to ensure compliance with the
629 limitations in Section 218.187(d); and
- 630
- 631 vii) A description of each cleaning operation exempt pursuant
632 to Section 218.187(a)(2), if any, and a listing of the
633 emission units on which the exempt cleaning operation is
634 performed;
- 635
- 636 B) At least 30 calendar days before changing the method of
637 compliance between subsections (b)(1) or (b)(2) and subsection
638 (b)(3) of this Section, notify the Agency in writing of such change.
639 The notification shall include a demonstration of compliance with
640 the newly applicable subsection;
- 641
- 642 3) All sources complying with this Section pursuant to the requirements of
643 subsection (b)(1) of this Section shall collect and record the following
644 information for each cleaning solution used:
- 645
- 646 A) For each cleaning solution that is prepared at the source with
647 automatic equipment:
- 648
- 649 i) The name and identification of each cleaning solution;
- 650
- 651 ii) The VOM content of each cleaning solvent in the cleaning
652 solution;
- 653
- 654 iii) Each change to the setting of the automatic equipment, with
655 date, time, description of changes in the cleaning solution
656 constituents (e.g., cleaning solvents), and a description of

- 657 changes to the proportion of cleaning solvent and water (or
658 other non-VOM);
659
660 iv) The proportion of each cleaning solvent and water (or other
661 non-VOM) used to prepare the as-used cleaning solution;
662
663 v) The VOM content of the as-used cleaning solution, with
664 supporting calculations; and
665
666 vi) A calibration log for the automatic equipment, detailing
667 periodic checks;
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669 B) For each batch of cleaning solution that is not prepared at the
670 source with automatic equipment:
671
672 i) The name and identification of each cleaning solution;
673
674 ii) Date, time of preparation, and each subsequent
675 modification of the batch;
676
677 iii) The VOM content of each cleaning solvent in the cleaning
678 solution;
679
680 iv) The total amount of each cleaning solvent and water (or
681 other non-VOM) used to prepare the as-used cleaning
682 solution; and
683
684 v) The VOM content of the as-used cleaning solution, with
685 supporting calculations. For cleaning solutions that are not
686 prepared at the site but are used as purchased, the
687 manufacturer's specifications for VOM content may be
688 used if such manufacturer's specifications are based on
689 results of tests of the VOM content conducted in
690 accordance with methods specified in Section 218.105(a) of
691 this Part;
692
693 4) All sources complying with this Section pursuant to the requirements of
694 subsection (b)(2) of this Section shall collect and record the following
695 information for each cleaning solution used:
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697 A) The name and identification of each cleaning solution;
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- B) Date, time of preparation, and each subsequent modification of the batch;
 - C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with the applicable methods and procedures specified in Section 218.110 of this Part;
 - D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 218.110 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 218.187(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 218.187(g) of this Subpart, the owner or operator shall, within 90 days after conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:
 - i) A declaration that all tests and calculations necessary to demonstrate compliance with Section 218.187(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 218.187(b)(3) of this Subpart; and
 - iii) The operating parameters of the emissions control system during testing, as monitored in accordance with Section 218.187(f) of this Subpart;

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- C) Collect and record daily the following information for each cleaning operation subject to the requirements of Section 218.187(b)(3) of this Subpart:
 - i) Emissions control system monitoring data in accordance with Section 218.187(f) of this Subpart, as applicable;
 - ii) A log of operating time for the emissions control system, monitoring equipment, and 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 subsection (b) or (d) by providing a description of the violation and copies of records documenting the violation to the Agency within 30 days following the occurrence of the violation;

- 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

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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 218.187(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 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and
 - B) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring 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 218.187(b)(3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.187(b)(3).
- g) Testing Requirements
- 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 218.187(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 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 218.112 of this Part, shall be used to demonstrate compliance; or

- 827 B) The manufacturer's specifications for VOM content for cleaning
 828 solvents may be used if such manufacturer's specifications are
 829 based on results of tests of the VOM content conducted in
 830 accordance with methods specified in Section 218.105(a) of this
 831 Part; provided, however, Method 24 shall be used to determine
 832 compliance;
 833
- 834 3) Testing to determine the VOM composite partial vapor pressure of
 835 cleaning solvents, cleaning solvent concentrates, and as-used cleaning
 836 solutions shall be conducted in accordance with the applicable methods
 837 and procedures specified in Section 218.110 of this Part;
 838
- 839 4) For afterburners and carbon adsorbers, the methods and procedures of
 840 Section 218.105(d) through (f) shall be used for testing to demonstrate
 841 compliance with the requirements of Section 218.187(b)(3) of this
 842 Subpart, as follows:
 843
- 844 A) To select the sampling sites, Method 1 or 1A, as appropriate, 40
 845 CFR 60, ~~appendix~~Appendix A, incorporated by reference in
 846 Section 218.112 of this Part;
 847
- 848 B) To determine the volumetric flow rate of the exhaust stream,
 849 Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60,
 850 ~~appendix~~Appendix A, incorporated by reference in Section
 851 218.112 of this Part;
 852
- 853 C) To determine the VOM concentration of the exhaust stream
 854 entering and exiting the emissions control system, Method 25 or
 855 25A, as appropriate, 40 CFR 60, ~~appendix~~Appendix A,
 856 incorporated by reference in Section 218.112 of this Part. For
 857 thermal and catalytic afterburners, Method 25 must be used except
 858 under the following circumstances, in which case Method 25A
 859 must be used:
 860
- 861 i) The allowable outlet concentration of VOM from the
 862 emissions control system is less than 50 ppmv, as carbon;
 863
- 864 ii) The VOM concentration at the inlet of the emissions
 865 control system and the required level of control result in
 866 exhaust concentrations of VOM of 50 ppmv, or less, as
 867 carbon; and
 868

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

885
886 D) During testing, the cleaning equipment shall be operated at
887 representative operating conditions and flow rates;

888
889 5) An owner or operator using an emissions control system other than an
890 afterburner or carbon adsorber shall conduct testing to demonstrate
891 compliance with the requirements of Section 218.187(b)(3) of this Subpart
892 as set forth in the owner's or operator's plan approved by the Agency and
893 USEPA as federally enforceable permit conditions pursuant to Section
894 218.187(b)(3) of this Subpart.

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