

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Organic Material Emission Standards and Limitations for the Chicago Area
- 2) Code Citation: 35 Ill. Adm. Code 218
- 3)

<u>Section Numbers</u> :	<u>Proposed Action</u> :
218.106	Amended
218.204	Amended
218.205	Amended
218.207	Amended
218.210	Amended
218.211	Amended
218.212	Amended
218.218	New
- 4) Statutory Authority: Implementing Section 10 and authorized by Sections 27, 28 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28 and 28.5]
- 5) A Complete Description of the Subjects and Issues Involved: The proposed rulemaking is intended to satisfy Illinois' obligation to submit a State Implementation Plan addressing requirements under Sections 172 and 182 of the federal Clean Air Act, 42 USC 7401 et seq., for sources of volatile organic material (VOM) emissions in areas designated as nonattainment with respect to the ozone National Ambient Air Quality Standard. The United States Environmental Protection Agency (USEPA) issued Control Techniques Guidelines (CTGs) for the following Group III Consumer and Commercial Product Categories: Paper, Film, and Foil Coatings, Metal Furniture Coatings, and Large Appliance Coatings. In the CTGs, the USEPA recommended control measures that it believes constitute reasonably available control technology for those product categories. The Illinois EPA proposes amending Parts 218 to implement such recommendations for the Chicago nonattainment area. Generally, the proposal amends VOM content limitations and exclusions, requires that metal furniture and large appliance coating lines comply with application method limitations, and requires that subject coating lines implement specified work practices for cleaning materials and/or cleaning-related activities.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the Illinois EPA's Technical Support Document, which relied on several sources. Copies of the documents the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below:

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Control Techniques Guidelines for Paper, Film, and Foil Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

Control Techniques Guidelines for Metal Furniture Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

Control Techniques Guidelines for Large Appliance Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

- 7) Will these proposed amendments replace any emergency rulemaking currently in effect?
No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Do these proposed amendments contain incorporations by reference? No
- 10) Are there any other proposed amendments pending on this Part? No
- 11) Statement of Statewide Policy Objectives: 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) (2006)].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Interested persons may request copies of the Board's opinion and order by calling the Clerk's office at 312-814-3620, or may download copies from the Board's Web site at www.ipcb.state.il.us. The Board will accept written public comment on this proposal for 45 days after the date of publication in the *Illinois Register*. Comments should reference Docket R10-10 and be addressed to:

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

312/814-3620

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The Board has scheduled hearings according to the deadlines and for the purposes established by Section 28.5. Each hearing will continue from day-to-day until business is completed:

First hearing: Wednesday, December 9, 2009
10:00 AM
James R. Thompson Center
100 W. Randolph St.
Pollution Control Board Conference Room 11-512
Chicago, Illinois

Second hearing: Wednesday, January 6, 2010
(if necessary) 10:00 AM
Michael A. Bilandic Building
160 N. LaSalle Street
Room N-505
Chicago, Illinois

Third hearing: Wednesday, January 20, 2010
(if necessary) 10:00 AM
Michael A. Bilandic Building
160 N. LaSalle Street
Room N-505
Chicago, Illinois

A November 5, 2009 hearing officer order contains additional details concerning participation in the rulemaking. For more information contact Hearing Officer Tim Fox at 312-814-6085 or email at foxt@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 falls within one of the Group III Product Categories and meets the applicability thresholds specified in the proposal.
- B) Reporting, bookkeeping or other procedures required for compliance: the proposed rulemaking requires 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.

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- C) Types of Professional skills necessary for compliance: no professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.

- 14) Regulatory Agenda on which this rulemaking was summarized: July 2009

The full text of the Proposed Amendments 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

Section
218.119 Applicability for VOL
218.120 Control Requirements for Storage Containers of VOL
218.121 Storage Containers of VPL
218.122 Loading Operations
218.123 Petroleum Liquid Storage Tanks
218.124 External Floating Roofs
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 in General
218.182 Cold Cleaning
218.183 Open Top Vapor Degreasing
218.184 Conveyorized Degreasing
218.185 Compliance Schedule (Repealed)
218.186 Test Methods

SUBPART F: COATING OPERATIONS

Section
218.204 Emission Limitations
218.205 Daily-Weighted Average Limitations
218.206 Solids Basis Calculation
218.207 Alternative Emission Limitations
218.208 Exemptions from Emission Limitations
218.209 Exemption from General Rule on Use of Organic Material
218.210 Compliance Schedule
218.211 Recordkeeping and Reporting
218.212 Cross-Line Averaging to Establish Compliance for Coating Lines
218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating
Coating Lines
218.214 Changing Compliance Methods
218.215 Wood Furniture Coating Averaging Approach
218.216 Wood Furniture Coating Add-On Control Use
218.217 Wood Furniture 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
218.407 Emission Limitations and Control Requirements for Lithographic
Printing Lines On and After March 15, 1996
218.408 Compliance Schedule for Lithographic Printing On and After March 15,
1996
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

SUBPART Q: SYNTHETIC ORGANIC CHEMICAL
AND POLYMER MANUFACTURING PLANT

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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
218.433 Performance and Testing Requirements
218.434 Monitoring Requirements
218.435 Recordkeeping and Reporting Requirements
218.436 Compliance Date

SUBPART R: PETROLEUM REFINING AND
RELATED INDUSTRIES; ASPHALT MATERIALS

Section

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

Section

218.480 Applicability
218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges
and Vacuum Dryers
218.482 Control of Air Dryers, Production Equipment Exhaust Systems and
Filters
218.483 Material Storage and Transfer
218.484 In-Process Tanks

218.485 Leaks
218.486 Other Emission Units
218.487 Testing
218.488 Monitoring for Air Pollution Control Equipment
218.489 Recordkeeping for Air Pollution Control Equipment

SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

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218.500 Applicability for Batch Operations
218.501 Control Requirements for Batch Operations
218.502 Determination of Uncontrolled Total Annual Mass Emissions and
Average Flow Rate Values for Batch Operations
218.503 Performance and Testing Requirements for Batch Operations
218.504 Monitoring Requirements for Batch Operations
218.505 Reporting and Recordkeeping for Batch Operations
218.506 Compliance Date
218.520 Emission Limitations for Air Oxidation Processes
218.521 Definitions (Repealed)
218.522 Savings Clause
218.523 Compliance
218.524 Determination of Applicability
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218.526 Testing and Monitoring
218.527 Compliance Date (Repealed)

SUBPART W: AGRICULTURE

Section

218.541 Pesticide Exception

SUBPART X: CONSTRUCTION

Section

218.561 Architectural Coatings
218.562 Paving Operations
218.563 Cutback Asphalt

SUBPART Y: GASOLINE DISTRIBUTION

Section

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

SUBPART Z: DRY CLEANERS

Section

218.601 Perchloroethylene Dry Cleaners (Repealed)
218.602 Applicability (Repealed)
218.603 Leaks (Repealed)
218.604 Compliance Dates (Repealed)
218.605 Compliance Plan (Repealed)
218.606 Exception to Compliance Plan (Repealed)

218.607 Standards for Petroleum Solvent Dry Cleaners
218.608 Operating Practices for Petroleum Solvent Dry Cleaners
218.609 Program for Inspection and Repair of Leaks
218.610 Testing and Monitoring
218.611 Applicability for Petroleum Solvent Dry Cleaners
218.612 Compliance Dates (Repealed)
218.613 Compliance Plan (Repealed)

SUBPART AA: PAINT AND INK MANUFACTURING

Section

218.620 Applicability
218.621 Exemption for Waterbase Material and Heatset Offset Ink
218.623 Permit Conditions (Repealed)
218.624 Open Top Mills, Tanks, Vats or Vessels
218.625 Grinding Mills
218.626 Storage Tanks
218.628 Leaks
218.630 Clean Up
218.636 Compliance Schedule
218.637 Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section

218.640 Applicability
218.642 Emissions Limitation at Polystyrene Plants
218.644 Emissions Testing

SUBPART CC: POLYESTER RESIN PRODUCT MANUFACTURING PROCESS

Section

218.660 Applicability
218.666 Control Requirements
218.667 Compliance Schedule
218.668 Testing
218.670 Recordkeeping and Reporting for Exempt Emission Units
218.672 Recordkeeping and Reporting for Subject Emission Units

SUBPART DD: AEROSOL CAN FILLING

Section

218.680 Applicability
218.686 Control Requirements
218.688 Testing
218.690 Recordkeeping and Reporting for Exempt Emission Units
218.692 Recordkeeping and Reporting for Subject Emission Units

SUBPART FF: BAKERY OVENS (REPEALED)

Section

218.720 Applicability (Repealed)
218.722 Control Requirements (Repealed)
218.726 Testing (Repealed)
218.727 Monitoring (Repealed)
218.728 Recordkeeping and Reporting (Repealed)
218.729 Compliance Date (Repealed)

218.730 Certification (Repealed)

SUBPART GG: MARINE TERMINALS

Section

218.760 Applicability
218.762 Control Requirements
218.764 Compliance Certification
218.766 Leaks
218.768 Testing and Monitoring
218.770 Recordkeeping and Reporting

SUBPART HH: MOTOR VEHICLE REFINISHING

Section

218.780 Emission Limitations
218.782 Alternative Control Requirements
218.784 Equipment Specifications
218.786 Surface Preparation Materials
218.787 Work Practices
218.788 Testing
218.789 Monitoring and Recordkeeping for Control Devices
218.790 General Recordkeeping and Reporting (Repealed)
218.791 Compliance Date
218.792 Registration
218.875 Applicability of Subpart BB (Renumbered)
218.877 Emissions Limitation at Polystyrene Plants (Renumbered)
218.879 Compliance Date (Repealed)
218.881 Compliance Plan (Repealed)
218.883 Special Requirements for Compliance Plan (Repealed)
218.886 Emissions Testing (Renumbered)

SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
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Section

218.920 Applicability
218.923 Permit Conditions (Repealed)
218.926 Control Requirements
218.927 Compliance Schedule
218.928 Testing
218.929 Cementable and Dress or Performance Shoe Leather

SUBPART QQ: MISCELLANEOUS FORMULATION
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218.940 Applicability
218.943 Permit Conditions (Repealed)
218.946 Control Requirements
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SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL
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218.960 Applicability
218.963 Permit Conditions (Repealed)
218.966 Control Requirements
218.967 Compliance Schedule
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SUBPART TT: OTHER EMISSION UNITS

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218.980 Applicability
218.983 Permit Conditions (Repealed)
218.986 Control Requirements
218.987 Compliance Schedule
218.988 Testing

SUBPART UU: RECORDKEEPING AND REPORTING

Section
218.990 Exempt Emission Units
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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)
Equation
218.APPENDIX E+ List of Affected Marine Terminals
218.APPENDIX G+ TRE Index Measurements for SOCOMI Reactors and Distillation
Units
218.APPENDIX H+ Baseline VOM Content Limitations for Subpart F, Section
218.212 Cross-Line Averaging

AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5
of the Environmental Protection Act [415 ILCS 5/10, 27, ~~2928~~, and 28.5].

SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991;
amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in
R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in
R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at
18 Ill. Reg. ~~at~~1945, effective January 24, 1994; amended in R94-12 at 18 Ill.
Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg.
16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950,
effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill.
Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359,
effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective
October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9,
1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998;
amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in
R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30
Ill. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086,
effective April 30, 2007; amended in ~~R1008-108~~ at ~~3432~~ Ill. Reg. ~~14874~~,
effective August 26, 2008; amended in R10-10 at 34 Ill. Reg. _____, effective
_____.

SUBPART A: GENERAL PROVISIONS

Section 218.106 Compliance Dates

- a) Except as otherwise provided in this Section or as otherwise provided in a specific Subpart of this Part, compliance with the requirements of all rules is required by July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage, Kane, Lake, McHenry, or Will Counties, consistent with the appropriate provisions of Section 218.103 of this Subpart.
- b) Except as otherwise provided in this Section or as otherwise provided in a specific Subpart of this Part, compliance with the requirements of this Part is required by November 15, 1993, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County, or in Oswego Township in Kendall County.
- c) All emission units which meet the applicability requirements of Sections 218.402(a)(2), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b), 218.940(b), 218.960(b) or 218.980(b) of this Part, including emission units at sources which are excluded from the applicability criteria of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) of this Part by virtue of permit conditions or other enforceable means, must comply with the requirements of Subparts H, Z, AA, CC, DD, PP, QQ, RR or TT of this Part, respectively, by March 15, 1995. Any owner or operator of an emission unit which has already met the applicability requirements of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a) 218.980(a) of this Part on or by the effective date of this subsection is required to comply with all compliance dates or schedules found in Sections 218.106(a) or 218.106(b), as applicable.
- d) Any owner or operator of a source with an emission unit subject to the requirements of Section 218.204(m)(2) or (m)(3) of this Part shall comply with those requirements by March 25, 1995.
- e) Any owner or operator of a source subject to the requirements of Section 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2) of this Part shall comply with the applicable requirements in ~~such Section(s)~~ the applicable subsections, as well as all applicable requirements in Sections 218.205 through 218.214 and 218.218, by May 1, 2011.

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

SUBPART F: COATING OPERATIONS

Section 218.204 Emission Limitations

Except as provided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of this Subpart, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in ~~Sections~~ Section 218.204(c), 218.204(g), 218.204(h), and 218.204(l), compliance with the emission limitations marked with an asterisk in this Section is required on and after March 15, 1996, and compliance with emission limitations not marked with an asterisk is required until March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating

analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(c) of this Subpart except where noted. (Note: The equation presented in Section 218.206 of this Part shall be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.) The emission limitations are as follows:

a) Automobile or Light-Duty Truck Coating (kg/llb/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 surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.) ~~kg/llb/gal~~ 3) Topcoat 1.81 (15.1) 1.81 * (15.1) 1.81 * (15.1) * (Note: The topcoat limitation is in units of kg (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topcoat limitation.) ~~kg/llb/gal~~ 4) Final repair coat 0.58 (4.8) 0.58 * (4.8) *

b) Can Coating (kg/llb/gal) 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) 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/l	lb/gal
c)	Paper Coating			0.35	(2.9)
				0.28*	(2.3)*
		1)	Prior to May 1, 2011:		
	kg/l	lb/gal	0.28 (2.3)	2)	On and after May 1, 2011:
	lb (lb VOM/lb)	(lb VOM/lb)	solids applied	kg VOM/kg VOM/kg	kg (lb VOM/kg)
	applied	Pressure sensitive	tape and	coatings applied	applied coatings
	label surface	coatings	0.20 (0.067)		
		B)	All other paper coatings	0.40	(0.08)

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 218.401 of this Part. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part. On and after May 1, 2011, the paper coating limitation shall also not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.)

kg/lb/gal	Coil Coating	Coating	kg/lb/gal	0.31 (2.6)	0.20*(1.7)*e)	Fabric
	Coating			0.35 (2.9)	0.28*(2.3)*f)	Vinyl Coating
	Furniture Coating			1)	Prior to May 1, 2011:	Metal
			kg/lb/gal	lb/gal	lb/gal	Air dried
0.34	(2.8)	B)	Baked		0.28	(2.3)
	2)	On and after May 1, 2011:	kg/lb/gal	kg/l	kg/l	
<u>0.2750.40</u>	(2.3)	(lb/gal)	solids applied			
	Applied	A) General, One-Component		0.275-		0.40
<u>0.3400.55</u>	(2.8)	(3.3)	B) General, Multi-			
<u>0.2750.40</u>	(2.3)	(3.3)	C) Extreme High Gloss	0.340-		0.55
	Component	i) Component	Air Dried			
<u>0.3400.55</u>	(2.8)	(4.5)ii)	Baked		0.275-	0.40
<u>0.2750.40</u>	(2.3)	(3.3)	C) Extreme High Gloss	0.3400.55	(2.8)	(4.5)ii) Baked
	Dried	0.340	0.55	<u>0.3400.55</u>	(2.8)	(4.5)ii) Baked
	0.360	0.61	<u>0.3600.61</u>	(3.0)	(5.1)D)	Extreme
	Performance	i)	Performance	i) Air Dried	0.420	0.80
<u>0.4200.80</u>	(3.5)	(6.7)ii)	Baked		0.360	0.61
<u>0.3600.61</u>	(3.0)	(5.1)E)	Heat Resistant	i) Resistant		Air Dried
0.420	0.80	<u>0.4200.80</u>	(3.5)	(6.7)ii)	Baked	
0.360	0.61	<u>0.3600.61</u>	(3.0)	(5.1)	F)	Metallic
	0.420	0.80	<u>0.4200.80</u>	(3.5)	(6.7)	
G)	Pretreatment Coatings		0.420	0.80	<u>0.4200.80</u>	(3.5)
	(6.7)H)	Solar Absorbent		i) Absorbent	Air Dried	
	0.420	0.80	<u>0.4200.80</u>	(3.5)	(6.7)ii)	Baked
	0.360	0.61	<u>0.3600.61</u>	(3.0)	(5.1)	
	1)	Air-dried		0.36	(3.0)	
				0.34*	(2.8)*	
	2)	Baked		0.36	(3.0)	
				0.28*	(2.3)*	

(Note: On and after May 1, 2011, these limitations shall not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (g) ~~of this Section~~ shall apply all coatings using one or more of the following application methods:

- A) Electrostatic spray;
- B) High volume low pressure (HVLP) spray;
- C) Flow coating. For the purposes of this subsection (g), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
- D) Roll coating;
- E) Dip coating, including electrodeposition. For purposes of this subsection (g), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or
- F) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

h) Large Appliance Coating		1)	Prior to May 1, 2011:	
<u>Dried</u> 0.34	(2.8)	kg/l	lb/gal Allb/gal A)	Air dried
(2.3)	2)		B) Baked	0.28
(lb/gal) (lb/gal)	(lb/gal)		On and after May 1, 2011:	kg/l <u>kg/l</u> <u>kg/l</u> <u>kg/l</u>
Applied	A) General, One-		solids <u>applied</u>	
0.275	Component		0.275	0.40
(2.3)	(3.3) B) General, Multi-		Component <u>Component</u> i)	
Air Dried	0.340		0.55	<u>0.340</u> <u>0.55</u> (2.8)
(4.5) ii)	Baked		0.275	0.40
(3.3) C)	Extreme High Gloss		i) <u>Gloss</u> i)	Air Dried 0.340
0.55	<u>0.340</u> <u>0.55</u> (2.8)		(4.5) ii)	Baked 0.360
0.61	<u>0.360</u> <u>0.61</u> (3.0)		(5.1) D)	Extreme Performance
<u>Performance</u> i)	Air Dried		0.420	0.80
(6.7) ii)	Baked		0.360	0.61
(5.1) E)	Heat Resistant <u>Resistant</u> i)		Air Dried	0.420
<u>0.420</u> <u>0.80</u> (3.5)	(6.7) ii)		Baked	0.360
<u>0.360</u> <u>0.61</u> (3.0)	(5.1)		F) Metallic	0.420
0.80	<u>0.420</u> <u>0.80</u> (3.5)		(6.7)	G) Pretreatment
Coatings	0.420		0.80	<u>0.420</u> <u>0.80</u> (3.5)
Solar Absorbent	i) <u>Absorbent</u> i)		Air Dried	0.420
0.80	<u>0.420</u> <u>0.80</u> (3.5)		(6.7)	
ii) Baked	0.360		0.61	<u>0.360</u> <u>0.61</u> (3.0)
				(5.1)

- 1) ~~Air dried~~ 0.34 (2.8) 0.34* (2.8)*
- 2) Baked 0.34 (2.8) 0.28* (2.3)*

~~Note~~ BOARD NOTE: These limitations 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 ~~l~~ (1 quart) in any one rolling eight-hour period. On and after May 1, 2011, these limitations shall also not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (h) ~~of this Section~~ shall apply all coatings using one or more of the following application methods:

- A) Electrostatic spray;
- B) High volume low pressure (HVLP) spray;
- C) Flow coating. For the purposes of this subsection (h), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
- D) Roll coating;
- E) Brush coating;
- F) Dip coating, including electrodeposition. For purposes of this subsection (h), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is

attracted to the substrate due to the electrochemical potential difference that is created; or

G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

~~kg/llb/gali~~i) Magnet Wire

~~CoatingCoating~~kg/llb/gal)0.20(1.7)0.20*(1.7)*j)Miscellaneous Metal Parts and Products Coating1)Clear coating0.52(4.3)0.52*(4.3)*2)Extreme performance ~~coatingAcoatingA~~)Air dried0.42(3.5)0.42*(3.5)*B)Baked0.42(3.5)0.40*(3.3)*3)Steel pail and drum interior coating0.52(4.3)0.52*(4.3)*4)All other ~~coatingsAcoatingsA~~)Air Dried0.42(3.5)0.40*(3.3)*B)Baked0.36(3.0)0.34*(2.8)*5)Marine engine ~~coatingAcoatingA~~)Air Dried0.42(3.5)0.42*(3.5)*B) ~~BakediBakedi~~)Primer/Topcoat0.42(3.5)0.42*(3.5)*ii)Corrosion resistant basecoat0.42(3.5)0.28*(2.3)*C)Clear Coating0.52(4.3)0.52*(4.3)*6)Metallic ~~CoatingAcoatingA~~)Air Dried0.42(3.5)0.42*(3.5)*B)Baked0.36(3.0)0.36(3.0)*

7) Definitions

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

i) "Corrosion resistant basecoat" means, for purposes of subsection 218.204(j)(5)(B)(ii) of this Section, a water-borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance.

ii) "Electrodeposition process" means, for purposes of subsection 218.204(j)(5) of this Section, a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.

iii) "Marine engine coating" means, for purposes of subsection 218.204(j)(5) of this Section, any extreme performance protective, decorative or functional coating applied to an engine that is used to propel watercraft.

B) For purposes of subsection 218.204(j)(6) of this Section, "metallic coating" means a coating which contains more than 1/4 lb/gal of metal particles, as applied.

k)Heavy Off-Highway Vehicle Products Coatingkg/llb/gal1)Extreme performance prime coat0.42(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.

l) Wood Furniture Coating1)Limitations before March 15, 1998:kg/llb/~~galA~~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 l (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application

system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.)

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 218.215 of this Subpart for use of an averaging approach;

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

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

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

kg/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 218.217 of this Subpart.

C) Any source subject to the limitations of subsection (1)(2)(A) or (B) of this Section and utilizing one or more 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.

m) Existing Diesel-Electric Locomotive Coating Lines in Cook County kg/llb/gall) Extreme performance prime coat 0.42(3.5) 0.42*(3.5)*2) Extreme performance top-coat (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) High-temperature aluminum coating 0.72(6.0) 0.72*(6.0)*5) All other coatings 0.36(3.0) 0.36*(3.0)*

n) Plastic Parts Coating: Automotive/Transportation kg/llb/gall) ~~Interiors~~ ~~A) Baked~~ ~~Interiors~~ ~~A) Baked~~) Color coat 0.49*(4.1)*ii) Primer 0.46*(3.8)*B) Air ~~Dried~~ ~~Dried~~) Color coat 0.38*(3.2)*ii) Primer 0.42*(3.5)*2) Exteriors (flexible and non-flexible) A) ~~Baked~~ ~~Baked~~) 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~~ ~~Dried~~) 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 ~~metalizing~~ ~~metallizing~~ basecoats, texture ~~basecoats~~ ~~base coats~~ 0.66*(5.5)*B) Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings 0.71*(5.9)*C) Gloss reducers, vacuum ~~metalizing~~ ~~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~~ ~~Headlamp~~ lens coatings 0.89*(7.4)*

o) Plastic Parts Coating: Business Machine kg/llb/gall) 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)*

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

Section 218.205 Daily-Weighted Average Limitations

No owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart and complying by means of this Section shall operate the subject coating line unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), (h), ~~or~~ (i), or (j) of this Section (depending upon the category of coating) through the applicable coating analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(d) of this Subpart:

a) No owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a) (1), (a) (4), ~~(e),~~ ~~(d)~~, (e), (f), ~~or~~ (i), or, prior to May 1, 2011, (c) 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 218.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b) (1) or (b) (2) of this Section are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(j) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l ~~+(3.5 lbs/gal+))~~), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(j) of this Subpart, during the

same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

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

1) An alternative daily emission limitation shall be determined for the can coating operation, i.e. for all of the can coating lines at the source, according to subsection (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 218.204(b) of this Subpart in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(k) of this Subpart, during the same day (e.g., all coatings used on the line are

subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(k) of this Subpart, during the same day, the owner or operator 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 218.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(1) or subsection (e)(2) of this Section, in addition to the requirements specified in the note to Section 218.204(l)(1) of this Subpart, are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(l)(1) or (l)(3) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) of this Subpart shall apply coatings to diesel-electric locomotives 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 218.204(m) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

g) No owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(n) or (o) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

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

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(g) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(g) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

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

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

j) On and after May 1, 2011, no owner or operator of a paper coating line subject to the limitations of Section 218.204(c) of this Subpart shall apply coatings on the subject coating line unless the requirements in subsection (j)(1) or (j)(2) of this Section are met:

1) For each coating line ~~which~~that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(c) during the same day (e.g., all coatings used on the line are subject to 0.40 kg/kg solids ~~+ (0.08 kg/kg coatings)~~), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

2) For each coating line ~~which~~that applies coatings subject to more than one numerical emission limitation in Section 218.204(c) 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.

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

Section 218.207 Alternative Emission Limitations

a) Any owner or operator of a coating line subject to Section 218.204 of this Subpart may comply with this Section, rather than with Section 218.204 of this Subpart, if a capture system and control device are operated at all times the coating line is in operation and the owner or operator demonstrates compliance with subsections (c), (d), (e), (f), (g), (h), (i), (j), ~~or~~ (k), or (l) of this Section (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures specified in Section 218.105 of this Part and the recordkeeping and reporting requirements specified in Section 218.211(e) of this Subpart; and the control device is equipped with the applicable monitoring equipment specified in Section 218.105(d) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use. A capture system and control device, which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), (j), ~~or~~ (k), or (l) of this Section may be used as an alternative to compliance with Section 218.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.

b) Alternative Add-On Control Methodologies

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

2) The system used to control VOM from the coating line is demonstrated to have an overall efficiency sufficient to limit VOM emissions to no more than what is allowed under Section 218.204 of this Subpart. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption scrubber system can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the 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 218.204 of this Subpart;

B) Calculate "S" according to the equation in Section 218.206 of this Subpart;

C) Calculate the overall efficiency required according to Section 218.105(e) of this Part. For the purposes of calculating this value, according to the equation in Section 218.105(e)(2) of this Part, ~~VOM1~~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 218.204(a)(1), (a)(4), ~~(e), (d)~~, (e), (f), ~~or~~ (i), or, prior to May 1, 2011, (c) of this Subpart and equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. No owner or operator of a coating line subject to Section 218.204(a)(2) or 218.204(a)(3) and equipped with a capture system and control device shall operate the coating line unless the owner or operator demonstrates compliance with such limitation in accordance with the topcoat protocol referenced in Section 218.105(b).

d) No owner or operator of a miscellaneous metal parts and products coating line ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(j) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal]), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

e) No owner or operator of a heavy off-highway vehicle products coating line ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(k) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal]), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(m) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 [3.5 lbs/gal]), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

g) No owner or operator of a wood furniture coating line ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(l) of this Subpart (e.g., all coatings used on the line are subject to 0.67 kg/1 [5.6 lbs/gal]), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. If compliance is achieved by meeting the requirements in subsection (b)(2) of this Section, then the provisions in the note to Section 218.204(l) of this Subpart must also be met.

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

1) An alternative daily emission limitation shall be determined for the can coating operation, i.e., for all of the can coating lines at the source, according to Section 218.205(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 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); F_i = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

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

i) No owner or operator of a plastic parts coating line ~~which, that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l ~~+(3.5 lbs/gal+)~~), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

j) Prior to May 1, 2011, ~~no~~ owner or operator of a metal furniture coating line ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(g) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l ~~+(2.8 lbs/gal+)~~), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

k) Prior to May 1, 2011, ~~no~~ owner or operator of a large appliance coating line ~~which that~~ applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l ~~+(2.8 lbs/gal+)~~), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

l) On and after May 1, 2011, no owner or operator of a paper coating line, metal furniture coating line, or large appliance 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 complies with the applicable limitation set forth in Section 218.204 of this Subpart by utilizing a combination of low-VOM coatings and a capture system and control device.

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

Section 218.210 Compliance Schedule

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

a) No owner or operator of a coating line ~~which~~that is exempt from the limitations of Section 218.204 of this Subpart because of the criteria in Section 218.208(a) or (b) of this Subpart shall operate said coating line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.211(b) of this Subpart.

b) No owner or operator of a coating line complying by means of Section 218.204 of this Subpart shall operate said coating line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 218.204 and 218.211(c) of this Subpart.

c) No owner or operator of a coating line complying by means of Section 218.205 of this Subpart shall operate said coating line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 218.205 and 218.211(d) of this Subpart.

d) No owner or operator of a coating line complying by means of Section 218.207 of this Subpart shall operate said coating line on or after a date consistent with Section 218.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 218.207 and 218.211(e) of this Subpart.

e) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.204, 218.205 or 218.207 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with, respectively, the applicable requirements in Section 218.204, or the alternative control options in Section 218.205 or 218.207 and the requirements of Section 218.211.

f) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.212 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or

operator complies with and continues to comply with the requirements of Sections 218.212 and 218.213 of this Subpart.

g) No owner or operator of a coating line subject to the emission limitations in Section 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2) of this Subpart shall operate ~~said~~~~that~~ coating line on or after a date consistent with Section 218.106(e) of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2), as applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.218 of this Subpart.

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

Section 218.211 Recordkeeping and Reporting

a) The VOM content of each coating and the efficiency of each capture system and control device shall be determined by the applicable test methods and procedures specified in Section 218.105 of this Part to establish the records required under this Section.

b) Any owner or operator of a coating line ~~which~~~~that~~ is exempted from the limitations of Section 218.204 of this Subpart because of Section 218.208(a) or (b) of this Subpart shall comply with the following:

1) For sources exempt under Section 218.208(a) of this Subpart, by a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the coating line or group of coating lines is exempt under the provisions of Section 218.208(a) of this Subpart. Such certification shall include:

A) A declaration that the coating line or group of coating lines is exempt from the limitations of Section 218.204 of this Subpart because of Section 218.208(a) of this Subpart; and

B) Calculations ~~which~~~~that~~ demonstrate that the combined VOM emissions from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before 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 218.104 of this Part (because they belong to the same category, e.g., can coating); j = Subscript denoting an individual coating line; n = Number of different coatings as applied each day on each coating line; i = Subscript denoting an individual coating; A_i = Weight of VOM per volume of each coating (minus water and any compounds ~~which~~~~that~~ are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); ~~and~~ ~~B_i~~ ~~and~~ ~~B_i~~ = Volume of each coating (minus water and any compounds ~~which~~~~that~~ are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day).

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

2) For sources exempt under Section 218.208(b) of this Subpart, by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the source is exempt under the provisions of Section 218.208(b) of this Subpart. Such certification shall include:

A) A declaration that the source is exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart; and

B) Calculations which demonstrate that the source meets the criteria for exemption because of Section 218.208(b) of this Subpart.

3) For sources exempt under Section 218.208(a) of this Subpart, on and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in this subsection shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:

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

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

4) For sources exempt under Section 218.208(b) of this Subpart, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) shall collect and record all of the following information for each coating line and maintain the information at the source for a period of three years:

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

B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.

5) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 218.204 of this Subpart because of Section 218.208(a) of this Subpart shall notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before the application of capture systems and control devices by sending a copy of such record to the Agency within 30 days after the exceedance occurs.

6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.

c) Any owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart other than Section 218.204(a)(2) or (a)(3) of this Subpart and complying by means of Section 218.204 of this Subpart shall comply with the following:

1) By a date consistent with Section 218.106 of this Part, or upon initial ~~startup~~start-up of a new coating line, or upon changing the method of compliance from an existing subject coating line from Section 218.205, Section 218.207, Section 218.215, or Section 218.216 of this Subpart to Section 218.204 of this Subpart; the owner or operator of a subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial ~~startup~~start-up date. ~~Such~~The 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 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line; ~~-~~

D) For coating lines subject to the limitations of Section 218.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line; and

E) For coating lines subject to the limitations of Section 218.204(g)(2) or 218.204(h)(2) of this Subpart, the application ~~method(s)~~methods used to apply coatings on the subject coating line and the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

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

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 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line and certified product data sheets for each coating; ~~and~~

D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 218.204(l)(4)(A) of this Subpart, the

weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified product data sheets for each coating;—

E) For coating lines subject to the limitations of Section 218.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating; and

F) For coating lines subject to the limitations of Section 218.204(g)(2) or 218.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating.

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

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

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

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

1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing subject coating line from Section 218.204 or Section 218.207 of this Subpart to Section 218.205 of this Subpart; the owner or operator of the subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.205 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date.

~~Such~~The certification shall include:

A) The name and identification number of each coating line which will comply by means of Section 218.205 of this Subpart.

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

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

D) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.

E) For coating lines subject to the limitations of Section 218.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.

F) For coating lines subject to the limitations of Section 218.204(g)(2) or 218.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

~~GEG~~) 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.

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

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

2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line 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 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.

D) For coating lines subject to the limitations of Section 218.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.

E) For coating lines subject to the limitations of Section 218.204(g)(2) or 218.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

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

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

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

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

e) Any owner or operator of a coating line subject to the limitations of Section 218.207 of this Subpart and complying by means of Section 218.207(c), (d), (e), (f), (g), ~~ex~~(h), or (l) of this Subpart shall comply with the following:

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

2) On and after a date consistent with Section 218.106 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 218.207(b)(2) of this Subpart.

B) Control device monitoring data.

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

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

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

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

B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all

requirements of subsection (c)(1) or (d)(1) of this Section, respectively. Upon changing the method of compliance with this subpart from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.

f) Any owner or operator of a primer surfacer operation or topcoat operation subject to the limitations of Section 218.204(a)(2) or (a)(3) of this Subpart shall comply with the following:

1) By a date consistent with Section 218.106 of this Part, or upon initial ~~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 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial ~~startup~~start-up date. ~~Such~~The certification shall include:

A) The name and identification number of each coating operation which will comply by means of Section 218.204(a)(2) and (a)(3) of this Subpart and the name and identification number of each coating line in each coating operation.

B) The name and identification number of each coating as applied on each coating line in the coating operation.

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

D) The transfer efficiency and control efficiency measured for each coating line.

E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.

F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.

G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2) ~~below~~of this Section.

H) An example format for presenting the records required in subsection (f)(2) ~~below~~of this Section.

2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial ~~startup~~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 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 218.204(a)(2) or (a)(3) of this Subpart including:

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

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 218.106 of this Part or on and after the initial ~~startup~~ start-up date, the owner or operator of a subject coating operation shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart within 10 days from the end of the month and maintain this information at the source for a period of three years.

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

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

B) The owner or operator shall notify the Agency of any change to the operation at least 30 days before the change is ~~affected~~ defected. 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 218.106(e) of this Part, or on and after the initial startup date, whichever is later, the owner or operator of a coating line subject to the requirements of Section 218.218 of this Subpart shall comply with the following:

1) By May 1, 2011, or upon initial startup, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.218 of this Subpart;

2) Notify the Agency of any violation of Section 218.218 of this Subpart by providing a description of the violation and copies of records documenting ~~such~~ the violation to the Agency within 30 days following the occurrence of the violation; and

3) Maintain at the source all records required by this subsection (g) for a minimum of three years from the date the document was created and make ~~such~~ those records available to the Agency upon request.

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

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

a) On and after March 15, 1996, any owner or operator of a coating line subject to the limitations set forth in Section 218.204 of this Subpart, except coating lines subject to the limitations in Section 218.204(c)(2), (g)(2), or (h)(2) of this Subpart, and with coating lines in operation prior to January 1, 1991 ("pre-existing coating lines"), may, for pre-existing coating lines only, elect to comply with the requirements of this Section, rather than complying with the applicable emission limitations set forth in Section 218.204, if an operational change of the type described below has been made after January 1, 1991, to one or more pre-existing coating lines at the source. An operational change occurs when a pre-existing coating line is replaced with a line using lower VOM coating for the same purpose as the replaced line ("replacement line"). A source electing to rely on this Section to demonstrate compliance with the requirements of this Subpart shall operate pursuant to federally enforceable permit conditions approved by the Agency and USEPA.

b) An owner or operator of pre-existing coating lines subject to a VOM content limitation in Section 218.204 of this Subpart and electing to rely on this Section to demonstrate compliance with this Subpart must establish, by use of the equations in subsection (d) of this Section, that the calculated actual daily VOM emissions from all participating coating lines, as defined below, are less than the calculated daily allowable VOM emissions from the same group of coating lines. For any pre-existing coating line to be aggregated for the purposes of Section 218.212, 218.213, or 218.214 of this Subpart ("participating coating lines"), the source must establish that:

1) All coatings applied on the participating coating line shall, at all times, have a VOM content less than or equal to the applicable VOM content limitation for such coating listed in Appendix H of this Part; and

2) On the date the source elects to rely on this Section to demonstrate compliance with this Subpart, all coatings applied on the participating coating line are not already in compliance with the VOM content limitation for such coating effective on or after March 15, 1996; or the participating coating line is a replacement line, as defined in subsection (a) of this Section with an operational change occurring on or after January 1, 1991.

c) Notwithstanding subsection (a) of this Section, any owner or operator of a coating line subject to the limitations set forth in Section 218.204 of this Subpart and electing to rely on this Section to demonstrate compliance with this Subpart, may also include as a participating coating line, until December 31, 1999, only, any replacement line that satisfies all of the following conditions:

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 (Ed) shall never exceed the alternative daily emission limitation (Ad) and shall be calculated by use of the following equation:

$$Ed = \sum_{i=1}^n Vi Ci$$

where:

Ed = 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; Vi = 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 Ci and~~ Ci = 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 (Ad) shall be determined for all participating coating lines at the source on a daily basis as follows:

$$Ad = Al + Ap$$

where ~~Ad~~ Al and Ap are defined in subsections (d)(2)(A) and (d)(2)(B) of this Section.

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

$$Al = \sum_{i=1}^n \frac{Vi (Di - Ci)}{Li (Di - Li)}$$

where:

Al = The VOM emissions allowed for the day in units of kg/day (lbs/day); i = Subscript denoting a specific coating applied; n = Total number of coatings applied in the participating coating lines; Ci = 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);

Di = The density of VOM in each coating applied. For the purposes of calculating Al, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); Vi = Volume of each coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); ~~and Li and~~ Li = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

B) The portion of the alternative daily emission limitation for coating operations at a source using powdered coating (Ap) shall be determined for all

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

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

where:

A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day); h = Subscript denoting a specific powder coating line; j = Subscript denoting a specific powder coating applied; m = Total number of participating powder coating lines; n = Total number of powder coatings applied in the participating coating lines; D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating; and L_j = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); ~~and K and K_h~~ = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained pursuant to the requirements of Section 218.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid ~~and~~ powder. Test methods and recordkeeping requirements shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:

- i) K cannot exceed 0.9 for non-recycled powder coating systems; or
- ii) K cannot exceed 2.0 for recycled powder coating systems.
(Source: Amended at 34 Ill. Reg. _____, effective _____)

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

a) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 218.204(c) of this Subpart shall:

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

b) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 218.204(g) or 218.204(h) of this Subpart shall:

1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;

2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing ~~such those~~ materials;

3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;

4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and

5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.

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




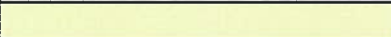

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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

Document comparison done by DeltaView on Friday, November 13, 2009 1:36:00 PM

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Insertions	179
Deletions	243
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Style change	0
Format changed	0
Total changes	422

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1 TITLE 35: ENVIRONMENTAL PROTECTION
2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER c: EMISSIONS STANDARDS AND
5 LIMITATIONS FOR STATIONARY SOURCES
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7 PART 218
8 ORGANIC MATERIAL EMISSION STANDARDS AND
9 LIMITATIONS FOR THE CHICAGO AREA
10

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20	218.106	Compliance Dates
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24	218.109	Vapor Pressure of Volatile Organic Liquids
25	218.110	Vapor Pressure of Organic Material or Solvent
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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) Equation
- 218.APPENDIX E List of Affected Marine Terminals
- 218.APPENDIX G TRE Index Measurements for SOCOMI Reactors and Distillation Units
- 218.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

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AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5].

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

387 amended in R08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-10 at 34 Ill.
388 Reg. _____, effective _____.

389
390 SUBPART A: GENERAL PROVISIONS

391
392 **Section 218.106 Compliance Dates**

- 393
394 a) Except as otherwise provided in this Section or as otherwise provided in a specific
395 Subpart of this Part, compliance with the requirements of all rules is required by
396 July 1, 1991, or September 1, 1991, for all sources located in Cook, DuPage,
397 Kane, Lake, McHenry, or Will Counties, consistent with the appropriate
398 provisions of Section 218.103 of this Subpart.
- 399
400 b) Except as otherwise provided in this Section or as otherwise provided in a specific
401 Subpart of this Part, compliance with the requirements of this Part is required by
402 November 15, 1993, for all sources located in Aux Sable Township or Goose
403 Lake Township in Grundy County, or in Oswego Township in Kendall County.
- 404
405 c) All emission units which meet the applicability requirements of Sections
406 218.402(a)(2), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b),
407 218.940(b), 218.960(b) or 218.980(b) of this Part, including emission units at
408 sources which are excluded from the applicability criteria of Sections
409 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or
410 218.980(a) of this Part by virtue of permit conditions or other enforceable means,
411 must comply with the requirements of Subparts H, Z, AA, CC, DD, PP, QQ, RR
412 or TT of this Part, respectively, by March 15, 1995. Any owner or operator of an
413 emission unit which has already met the applicability requirements of Sections
414 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a)
415 218.980(a) of this Part on or by the effective date of this subsection is required to
416 comply with all compliance dates or schedules found in Sections 218.106(a) or
417 218.106(b), as applicable.
- 418
419 d) Any owner or operator of a source with an emission unit subject to the
420 requirements of Section 218.204(m)(2) or (m)(3) of this Part shall comply with
421 those requirements by March 25, 1995.
- 422
423 e) Any owner or operator of a source subject to the requirements of Section
424 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2) of this Part shall comply with the
425 applicable requirements in the applicable subsections, as well as all applicable
426 requirements in Sections 218.205 through 218.214 and 218.218, by May 1, 2011.

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

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SUBPART F: COATING OPERATIONS

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Section 218.204 Emission Limitations

Except as provided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of this Subpart, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in Section 218.204(c), 218.204(g), 218.204(h), and ~~Section 218.204(l)~~, compliance with the emission limitations marked with an asterisk in this Section is required on and after March 15, 1996, and compliance with emission limitations not marked with an asterisk is required until March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(c) of this Subpart except where noted. (Note: The equation presented in Section 218.206 of this Part shall be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.) The emission limitations are as follows:

a)	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)*

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.)

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

(Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topcoat limitation.)

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

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6)	End sealing compound coat	0.44 0.44*	(3.7) (3.7)*
c)	Paper Coating	kg/l 0.35 0.28*	lb/gal (2.9) (2.3)*
1)	<u>Prior to May 1, 2011:</u>	<u>kg/l</u> 0.28	<u>lb/gal</u> (2.3)
2)	<u>On and after May 1, 2011:</u>	<u>kg VOM/kg</u> <u>(lb VOM/lb)</u> <u>solids</u> <u>applied</u>	<u>kg VOM/kg</u> <u>(lb VOM/lb)</u> <u>coatings</u> <u>applied</u>
A)	<u>Pressure sensitive tape and label surface coatings</u>	0.20	(0.067)
B)	<u>All other paper coatings</u>	0.40	(0.08)

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 218.401 of this Part. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part. On and after May 1, 2011, the paper coating limitation shall also not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.)

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d)	Coil Coating	kg/l 0.31 0.20*	lb/gal (2.6) (1.7)*
e)	Fabric Coating	0.35 0.28*	(2.9) (2.3)*
f)	Vinyl Coating	0.45 0.28*	(3.8) (2.3)*
g)	Metal Furniture Coating		

1)	<u>Prior to May 1, 2011:</u>		
		<u>kg/l</u>	<u>lb/gal</u>
A)	<u>Air dried</u>	<u>0.34</u>	<u>(2.8)</u>
B)	<u>Baked</u>	<u>0.28</u>	<u>(2.3)</u>
2)	<u>On and after May 1, 2011:</u>		
		<u>kg/l</u> <u>(lb/gal)</u>	<u>kg/l (lb/gal)</u> <u>solids applied</u>
A)	<u>General, One-Component</u>	<u>0.275</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.3)</u>
B)	<u>General, Multi-Component</u>		
	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.275</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.3)</u>
C)	<u>Extreme High Gloss</u>		
	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
D)	<u>Extreme Performance</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
E)	<u>Heat Resistant</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>

F)	<u>Metallic</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
G)	<u>Pretreatment Coatings</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
H)	<u>Solar Absorbent</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
1)	<u>Air-dried</u>	<u>0.36</u> <u>0.34*</u>	<u>(3.0)</u> <u>(2.8)*</u>
2)	<u>Baked</u>	<u>0.36</u> <u>0.28*</u>	<u>(3.0)</u> <u>(2.3)*</u>

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(Note: On and after May 1, 2011, these limitations shall not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

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- 3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (g) shall apply all coatings using one or more of the following application methods:
- A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For the purposes of this subsection (g), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For purposes of this subsection (g), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the

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substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or

F) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

h) Large Appliance Coating

1)	<u>Prior to May 1, 2011:</u>		
	A) <u>Air Dried</u>	<u>kg/l</u> <u>0.34</u>	<u>lb/gal</u> <u>(2.8)</u>
	B) <u>Baked</u>	<u>0.28</u>	<u>(2.3)</u>
2)	<u>On and after May 1, 2011:</u>	<u>kg/l</u> <u>(lb/gal)</u>	<u>kg/l (lb/gal)</u> <u>solids</u> <u>applied</u>
	A) <u>General, One Component</u>	<u>0.275</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.3)</u>
	B) <u>General, Multi-Component</u>		
	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.275</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.3)</u>
	C) <u>Extreme High Gloss</u>		
	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
	D) <u>Extreme Performance</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
	E) <u>Heat Resistant</u>		
	i) <u>Air Dried</u>	<u>0.420</u>	<u>0.80</u>

		<u>(3.5)</u>	<u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u>	<u>0.61</u>
		<u>(3.0)</u>	<u>(5.1)</u>
F)	<u>Metallic</u>	<u>0.420</u>	<u>0.80</u>
		<u>(3.5)</u>	<u>(6.7)</u>
G)	<u>Pretreatment Coatings</u>	<u>0.420</u>	<u>0.80</u>
		<u>(3.5)</u>	<u>(6.7)</u>
H)	<u>Solar Absorbent</u>		
	i) <u>Air Dried</u>	<u>0.420</u>	<u>0.80</u>
		<u>(3.5)</u>	<u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u>	<u>0.61</u>
		<u>(3.0)</u>	<u>(5.1)</u>

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BOARD NOTE: ~~These limitations~~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 l (1 quart) in any one rolling eight-hour period. On and after May 1, 2011, these limitations shall also not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

- 3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (h) shall apply all coatings using one or more of the following application methods:
- A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For the purposes of this subsection (h), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Brush coating;
 - F) Dip coating, including electrodeposition. For purposes of this subsection (h), electrodeposition means a water-borne dip coating

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process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or

G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

i)	Magnet Wire Coating	kg/l	lb/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		
A)	Air dried	0.42	(3.5)
		0.42*	(3.5)*
B)	Baked	0.42	(3.5)
		0.40*	(3.3)*
3)	Steel pail and drum interior coating	0.52	(4.3)
		0.52*	(4.3)*
4)	All other coatings		
A)	Air Dried	0.42	(3.5)
		0.40*	(3.3)*
B)	Baked	0.36	(3.0)
		0.34*	(2.8)*
5)	Marine engine coating		
A)	Air Dried	0.42	(3.5)
		0.42*	(3.5)*
B)	Baked		
i)	Primer/Topcoat	0.42	(3.5)

		0.42*	(3.5)*
	ii) Corrosion resistant basecoat	0.42 0.28*	(3.5) (2.3)*
	C) Clear Coating	0.52 0.52*	(4.3) (4.3)*
6)	Metallic Coating		
	A) Air Dried	0.42 0.42*	(3.5) (3.5)*
	B) Baked	0.36 0.36	(3.0) (3.0)*
7)	Definitions		
	A) For purposes of subsection 218.204(j)(5) of this Section, the following terms are defined:		
	i) "Corrosion resistant basecoat" means, for purposes of subsection 218.204(j)(5)(B)(ii) of this Section, a water-borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance.		
	ii) "Electrodeposition process" means, for purposes of subsection 218.204(j)(5) of this Section, a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.		
	iii) "Marine engine coating" means, for purposes of subsection 218.204(j)(5) of this Section, any extreme performance protective, decorative or functional coating applied to an engine that is used to propel watercraft.		
	B) For purposes of subsection 218.204(j)(6) of this Section, "metallic coating" means a coating which contains more than ¼ lb/gal of metal particles, as applied.		

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k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/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.		

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l)	Wood Furniture Coating		
	1) Limitations before March 15, 1998:	kg/l	lb/gal
	A) Clear topcoat	0.67	(5.6)
	B) Opaque stain	0.56	(4.7)
	C) Pigmented coat	0.60	(5.0)
	D) Repair coat	0.67	(5.6)
	E) Sealer	0.67	(5.6)
	F) Semi-transparent stain	0.79	(6.6)
	G) Wash coat	0.73	(6.1)

(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.)

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

550 C) Meet the provisions of Section 218.215 of this Subpart for use of
 551 an averaging approach;
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 553 D) Achieve a reduction in emissions equivalent to the requirements of
 554 subsection (1)(2)(A) or (B) of this Section, as calculated using
 555 Section 218.216 of this Subpart; or
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 557 E) Use a combination of the methods specified in subsections
 558 (1)(2)(A) through (D) of this Section.
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560 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)

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- C) Repair coat 0.67 (5.6)
- D) Semi-transparent stain 0.79 (6.6)
- E) Wash coat 0.73 (6.1)

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- 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 218.217 of this Subpart.
 - C) Any source subject to the limitations of subsection (1)(2)(A) or (B) of this Section and utilizing one or more 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.

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
		0.42*	(3.5)*

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2)	Extreme performance top-coat (air dried)	0.42 0.42*	(3.5) (3.5)*
3)	Final repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
4)	High-temperature aluminum coating	0.72 0.72*	(6.0) (6.0)*
5)	All other coatings	0.36 0.36*	(3.0) (3.0)*
n)	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 base coats	0.66*	(5.5)*
B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings	0.71*	(5.9)*
C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats	0.77*	(6.4)*
D)	Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings	0.82*	(6.8)*
E)	Headlamp lens coatings	0.89*	(7.4)*

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

C) Plating sensitizer 0.85* (7.1)*

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

Section 218.205 Daily-Weighted Average Limitations

No owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart and complying by means of this Section shall operate the subject coating line unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), (h), ~~or (i), or (j)~~ of this Section (depending upon the category of coating) through the applicable coating analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(d) of this Subpart:

- a) No owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a)(1), (a)(4), ~~(e), (d), (e), (f), or (i), or, prior to May 1, 2011, (c)~~ 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 218.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(j) during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(j) of this Subpart, during the same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- c) No owner or operator of a can coating line subject to the limitations of Section 218.204(b) of this Subpart shall operate the subject coating line using a coating with a VOM content in excess of the limitations specified in Section 218.204(b) of this Subpart unless all of the following requirements are met:

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

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

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where:

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

i = Subscript denoting a specific coating applied;

n = Total number of coatings applied in the can coating operation, i.e. all can coating lines at the source;

V_i = Volume of each coating applied for the day in units of l/day (gal/day) of coating (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:

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

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where:

A_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 218.204(b) of this Subpart in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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- d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) of this Subpart shall apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(k) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(k) of this Subpart, during the same day, the owner or operator 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.

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- e) No owner or operator of a wood furniture coating line subject to the limitations of Section 218.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(1) or subsection (e)(2) of this Section, in addition to the requirements specified in the note to Section 218.204(l)(1) of this Subpart, are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(l)(1) or (l)(3) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
 - f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) of this Subpart shall apply coatings to diesel-electric locomotives 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 218.204(m) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
 - g) No owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the

766 corresponding to the category of coating used, or
 767

- 768 2) For each coating line which applies coatings subject to more than one
 769 numerical emission limitation in Section 218.204(h) of this Subpart,
 770 during the same day, the owner or operator shall have a site specific
 771 proposal approved by the Agency and approved by the USEPA as a SIP
 772 revision. To receive approval, the requirements of USEPA's Emissions
 773 Trading Policy Statement (and related policy) must be satisfied.
 774

775 j) On and after May 1, 2011, no owner or operator of a paper coating line subject to
 776 the limitations of Section 218.204(c) of this Subpart shall apply coatings on the
 777 subject coating line unless the requirements in subsection (j)(1) or (j)(2) of this
 778 Section are met:
 779

- 780 1) For each coating line that applies multiple coatings, all of which are
 781 subject to the same numerical emission limitation within Section
 782 218.204(c) during the same day (e.g., all coatings used on the line are
 783 subject to 0.40 kg/kg solids (0.08 kg/kg coatings)), the daily-weighted
 784 average VOM content shall not exceed the coating VOM content limit
 785 corresponding to the category of coating used; or
 786

- 787 2) For each coating line that applies coatings subject to more than one
 788 numerical emission limitation in Section 218.204(c) during the same day,
 789 the owner or operator shall have a site-specific proposal approved by the
 790 Agency and approved by USEPA as a SIP revision. To receive approval,
 791 the requirements of USEPA's Emissions Trading Policy Statement (and
 792 related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
 793

794 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 795

796 **Section 218.207 Alternative Emission Limitations**
 797

- 798 a) Any owner or operator of a coating line subject to Section 218.204 of this Subpart
 799 may comply with this Section, rather than with Section 218.204 of this Subpart, if
 800 a capture system and control device are operated at all times the coating line is in
 801 operation and the owner or operator demonstrates compliance with subsections
 802 (c), (d), (e), (f), (g), (h), (i), (j), ~~(k)~~, or (l) of this Section (depending upon the
 803 source category) through the applicable coating analysis and capture system and
 804 control device efficiency test methods and procedures specified in Section
 805 218.105 of this Part and the recordkeeping and reporting requirements specified in
 806 Section 218.211(e) of this Subpart; and the control device is equipped with the
 807 applicable monitoring equipment specified in Section 218.105(d) of this Part and
 808 the monitoring equipment is installed, calibrated, operated and maintained

809 according to vendor specifications at all times the control device is in use. A
 810 capture system and control device, which does not demonstrate compliance with
 811 subsection (c), (d), (e), (f), (g), (h), (i), (j), ~~(k)~~, or (l) of this Section may be
 812 used as an alternative to compliance with Section 218.204 of this Subpart only if
 813 the alternative is approved by the Agency and approved by the USEPA as a SIP
 814 revision.

815
 816 b) Alternative Add-On Control Methodologies

817
 818 1) The coating line is equipped with a capture system and control device that
 819 provides 81 percent reduction in the overall emissions of VOM from the
 820 coating line and the control device has a 90 percent efficiency, or

821
 822 2) The system used to control VOM from the coating line is demonstrated to
 823 have an overall efficiency sufficient to limit VOM emissions to no more
 824 than what is allowed under Section 218.204 of this Subpart. Use of any
 825 control system other than an afterburner, carbon adsorption, condensation,
 826 or absorption scrubber system can be allowed only if approved by the
 827 Agency and approved by the USEPA as a SIP revision. The use of transfer
 828 efficiency credits can be allowed only if approved by the Agency and
 829 approved by the USEPA as a SIP revision. Baseline transfer efficiencies
 830 and transfer efficiency test methods must be approved by the Agency and
 831 the USEPA. Such overall efficiency is to be determined as follows:

832
 833 A) Obtain the emission limitation from the appropriate subsection in
 834 Section 218.204 of this Subpart;

835
 836 B) Calculate "S" according to the equation in Section 218.206 of this
 837 Subpart;

838
 839 C) Calculate the overall efficiency required according to Section
 840 218.105(e) of this Part. For the purposes of calculating this value,
 841 according to the equation in Section 218.105(e)(2) of this Part,
 842 VOM_i is equal to the value of "S" as determined above in
 843 subsection (b)(2)(B) of this Section.

844
 845 c) No owner or operator of a coating line subject to only one of the emission
 846 limitations from among Section 218.204(a)(1), (a)(4), ~~(e)~~, (d), (e), (f), ~~(i)~~, or
 847 prior to May 1, 2011, (c) of this Subpart and equipped with a capture system and
 848 control device shall operate the subject coating line unless the requirements in
 849 subsection (b)(1) or (b)(2) of this Section are met. No owner or operator of a
 850 coating line subject to Section 218.204(a)(2) or 218.204(a)(3) and equipped with
 851 a capture system and control device shall operate the coating line unless the

- 852 owner or operator demonstrates compliance with such limitation in accordance
 853 with the topcoat protocol referenced in Section 218.105(b).
 854
- 855 d) No owner or operator of a miscellaneous metal parts and products coating line
 856 ~~thatwhich~~ applies one or more coatings during the same day, all of which are
 857 subject to the same numerical emission limitation within Section 218.204(j) of
 858 this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l [3.5
 859 lbs/gal], and ~~thatwhich~~ is equipped with a capture system and control device shall
 860 operate the subject coating line unless the requirements in subsection (b)(1) or
 861 (b)(2) of this Section are met.
 862
- 863 e) No owner or operator of a heavy off-highway vehicle products coating line
 864 ~~thatwhich~~ applies one or more coatings during the same day, all of which are
 865 subject to the same numerical emission limitation within Section 218.204(k) of
 866 this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l [3.5
 867 lbs/gal]), and ~~thatwhich~~ is equipped with a capture system and control device
 868 shall operate the subject coating line unless the requirements in subsection (b)(1)
 869 or (b)(2) of this Section are met.
 870
- 871 f) No owner or operator of an existing diesel-electric locomotive coating line in
 872 Cook County ~~thatwhich~~ applies one or more coatings during the same day, all of
 873 which are subject to the same numerical emission limitation within Section
 874 218.204(m) of this Subpart (e.g., all coatings used on the line are subject to 0.42
 875 kg/l [3.5 lbs/gal]), and ~~thatwhich~~ is equipped with a capture system and control
 876 device shall operate the subject coating line unless the requirements in subsection
 877 (b)(1) or (b)(2) of this Section are met.
 878
- 879 g) No owner or operator of a wood furniture coating line ~~thatwhich~~ applies one or
 880 more coatings during the same day, all of which are subject to the same numerical
 881 emission limitation within Section 218.204(l) of this Subpart (e.g., all coatings
 882 used on the line are subject to 0.67 kg/l [5.6 lbs/gal]), and ~~thatwhich~~ is equipped
 883 with a capture system and control device shall operate the subject coating line
 884 unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. If
 885 compliance is achieved by meeting the requirements in subsection (b)(2) of this
 886 Section, then the provisions in the note to Section 218.204(l) of this Subpart must
 887 also be met.
 888
- 889 h) No owner or operator of a can coating line ~~thatwhich~~ is equipped with a capture
 890 system and control device shall operate the subject coating line unless the
 891 requirements in subsection (h)(1) or (h)(2) of this Section are met.
 892
- 893 1) An alternative daily emission limitation shall be determined for the can
 894 coating operation, i.e. for all of the can coating lines at the source,

895 according to Section 218.205(c)(2) of this Subpart. Actual daily emissions
 896 shall never exceed the alternative daily emission limitation and shall be
 897 calculated by use of the following equation:
 898

899
$$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$$

900 where:
 901
 902

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.

903
 904 2) The coating line is equipped with a capture system and control device that
 905 provide 75 percent reduction in the overall emissions of VOM from the
 906 coating line and the control device has a 90 percent efficiency.
 907

908 i) No owner or operator of a plastic parts coating line, ~~that~~ which applies one or
 909 more coatings during the same day, all of which are subject to the same numerical
 910 emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all
 911 coatings used on the line are subject to 0.42 kg/l ({3.5 lbs/gal})), and ~~that~~ which is
 912 equipped with a capture system and control device shall operate the subject
 913 coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section
 914 are met.
 915

916 j) Prior to May 1, 2011, no owner or operator of a metal furniture coating line
 917 thatwhich applies one or more coatings during the same day, all of which are
 918 subject to the same numerical emission limitation within Section 218.204(g) of
 919 this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8
 920 lbs/gal)), and thatwhich is equipped with a capture system and control device
 921 shall operate the subject coating line unless the requirements in subsection (b)(1)
 922 or (b)(2) of this Section are met.

924 k) Prior to May 1, 2011, no owner or operator of a large appliance coating line
 925 thatwhich applies one or more coatings during the same day, all of which are
 926 subject to the same numerical emission limitation within Section 218.204(h) of
 927 this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8
 928 lbs/gal)), and thatwhich is equipped with a capture system and control device
 929 shall operate the subject coating line unless the requirements in subsection (b)(1)
 930 or (b)(2) of this Section are met.

932 l) On and after May 1, 2011, no owner or operator of a paper coating line, metal
 933 furniture coating line, or large appliance coating line that is equipped with a
 934 capture system and control device shall operate the subject coating line unless
 935 either:

937 1) The capture system and control device provide at least 90 percent
 938 reduction in the overall emissions of VOM from the coating line; or

940 2) The owner or operator complies with the applicable limitation set forth in
 941 Section 218.204 of this Subpart by utilizing a combination of low-VOM
 942 coatings and a capture system and control device.

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

946 **Section 218.210 Compliance Schedule**

948 Every owner or operator of a coating line (of a type included within Section 218.204 of this
 949 Subpart) shall comply with the requirements of Section 218.204, 218.205, 218.207 or 218.208
 950 and Section 218.211 or Sections 218.212 and 218.213 of this Subpart in accordance with the
 951 appropriate compliance schedule as specified in subsection (a), (b), (c), (d), (e), ~~or~~ (f), or (g) of
 952 this Sectionbelow:

954 a) No owner or operator of a coating line thatwhich is exempt from the limitations of
 955 Section 218.204 of this Subpart because of the criteria in Section 218.208(a) or
 956 (b) of this Subpart shall operate said coating line on or after a date consistent with
 957 Section 218.106 of this Part, unless the owner or operator has complied with, and
 958 continues to comply with, Section 218.211(b) of this Subpart.

- 959
 960 b) No owner or operator of a coating line complying by means of Section 218.204 of
 961 this Subpart shall operate said coating line on or after a date consistent with
 962 Section 218.106 of this Part, unless the owner or operator has complied with, and
 963 continues to comply with, Sections 218.204 and 218.211(c) of this Subpart.
 964
 965 c) No owner or operator of a coating line complying by means of Section 218.205 of
 966 this Subpart shall operate said coating line on or after a date consistent with
 967 Section 218.106 of this Part, unless the owner or operator has complied with, and
 968 continues to comply with, Sections 218.205 and 218.211(d) of this Subpart.
 969
 970 d) No owner or operator of a coating line complying by means of Section 218.207 of
 971 this Subpart shall operate said coating line on or after a date consistent with
 972 Section 218.106 of this Part, unless the owner or operator has complied with, and
 973 continues to comply with, Sections 218.207 and 218.211(e) of this Subpart.
 974
 975 e) No owner or operator of a coating line subject to one or more of the emission
 976 limitations contained in Section 218.204 of this Subpart on or after March 15,
 977 1996, choosing to comply by means of Section 218.204, 218.205 or 218.207 of
 978 this Subpart, shall operate said coating line on or after March 15, 1996, unless the
 979 owner or operator complies with and continues to comply with, respectively, the
 980 applicable requirements in Section 218.204, or the alternative control options in
 981 Section 218.205 or 218.207 and the requirements of Section 218.211.
 982
 983 f) No owner or operator of a coating line subject to one or more of the emission
 984 limitations contained in Section 218.204 of this Subpart on or after March 15,
 985 1996, choosing to comply by means of Section 218.212 of this Subpart, shall
 986 operate said coating line on or after March 15, 1996, unless the owner or operator
 987 complies with and continues to comply with the requirements of Sections 218.212
 988 and 218.213 of this Subpart.
 989
 990 g) No owner or operator of a coating line subject to the emission limitations in
 991 Section 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2) of this Subpart shall
 992 operate that coating line on or after a date consistent with Section 218.106(e) of
 993 this Part, unless the owner or operator has complied with, and continues to
 994 comply with, Section 218.204(c)(2), 218.204(g)(2), or 218.204(h)(2), as
 995 applicable, or the alternative control options in Section 218.205 or 218.207, and
 996 all applicable requirements in Sections 218.211 and 218.218 of this Subpart.
 997

998 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 999

1000 **Section 218.211 Recordkeeping and Reporting**
 1001

- 1002 a) The VOM content of each coating and the efficiency of each capture system and
 1003 control device shall be determined by the applicable test methods and procedures
 1004 specified in Section 218.105 of this Part to establish the records required under
 1005 this Section.
 1006
 1007 b) Any owner or operator of a coating line ~~that~~which is exempted from the
 1008 limitations of Section 218.204 of this Subpart because of Section 218.208(a) or
 1009 (b) of this Subpart shall comply with the following:
 1010
 1011 1) For sources exempt under Section 218.208(a) of this Subpart, by a date
 1012 consistent with Section 218.106 of this Part, the owner or operator of a
 1013 coating line or a group of coating lines referenced in subsection (b) of this
 1014 Section shall certify to the Agency that the coating line or group of coating
 1015 lines is exempt under the provisions of Section 218.208(a) of this Subpart.
 1016 Such certification shall include:
 1017
 1018 A) A declaration that the coating line or group of coating lines is
 1019 exempt from the limitations of Section 218.204 of this Subpart
 1020 because of Section 218.208(a) of this Subpart; and
 1021
 1022 B) Calculations ~~that~~which demonstrate that the combined VOM
 1023 emissions from the coating lines or group of coating lines never
 1024 exceed 6.8 kg (15 lbs) per day before the application of capture
 1025 systems and control devices. The following equation shall be used
 1026 to calculate total VOM emissions:
 1027

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

1028
 1029 where:

1030 T_e = Total VOM emissions from coating lines each day before
 1031 the application of capture systems and control devices in
 units of kg/day (lbs/day);

m = Number of coating lines at the source that otherwise
 would be subject to the same subsection of Section
 218.104 of this Part (because they belong to the same
 category, e.g., can coating);

j = Subscript denoting an individual coating line;

- n = Number of different coatings as applied each day on each coating line;
- i = Subscript denoting an individual coating;
- A_i = Weight of VOM per volume of each coating (minus water and any compounds ~~that~~which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); and
- B_i = Volume of each coating (minus water and any compounds ~~that~~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 218.208(b) of this Subpart, by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the source is exempt under the provisions of Section 218.208(b) of this Subpart. Such certification shall include:
 - A) A declaration that the source is exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart; and
 - B) Calculations which demonstrate that the source meets the criteria for exemption because of Section 218.208(b) of this Subpart.
 - 3) For sources exempt under Section 218.208(a) of this Subpart, on and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in this subsection shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
 - A) The name and identification number of each coating as applied on each coating line; and
 - B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted

- 1058 from the definition of VOM) as applied each day on each coating
 1059 line.
 1060
- 1061 4) For sources exempt under Section 218.208(b) of this Subpart, on and after
 1062 March 15, 1998, the owner or operator of a coating line or group of
 1063 coating lines referenced in this subsection (b) shall collect and record all
 1064 of the following information for each coating line and maintain the
 1065 information at the source for a period of three years:
 1066
- 1067 A) The name and identification number of each coating as applied on
 1068 each coating line; and
 1069
- 1070 B) The weight of VOM per volume and the volume of each coating
 1071 (minus water and any compounds which are specifically exempted
 1072 from the definition of VOM) as applied on each coating line on a
 1073 monthly basis.
 1074
- 1075 5) On and after a date consistent with Section 218.106 of this Part, the owner
 1076 or operator of a coating line or group of coating lines exempted from the
 1077 limitations of Section 218.204 of this Subpart because of Section
 1078 218.208(a) of this Subpart shall notify the Agency of any record showing
 1079 that total VOM emissions from the coating line or group of coating lines
 1080 exceed 6.8 kg (15 lbs) in any day before the application of capture systems
 1081 and control devices by sending a copy of such record to the Agency within
 1082 30 days after the exceedance occurs.
 1083
- 1084 6) On and after March 15, 1998, any owner or operator of a source exempt
 1085 from the limitations of Section 218.204(l) of this Subpart because of
 1086 Section 218.208(b) of this Subpart shall notify the Agency if the source's
 1087 VOM emissions exceed the limitations of Section 218.208(b) of this
 1088 Subpart by sending a copy of calculations showing such an exceedance
 1089 within 30 days after the change occurs.
 1090
- 1091 c) Any owner or operator of a coating line subject to the limitations of Section
 1092 218.204 of this Subpart other than Section 218.204(a)(2) or (a)(3) of this Subpart
 1093 and complying by means of Section 218.204 of this Subpart shall comply with the
 1094 following:
 1095
- 1096 1) By a date consistent with Section 218.106 of this Part, or upon initial start-
 1097 up of a new coating line, or upon changing the method of compliance from
 1098 an existing subject coating line from Section 218.205, Section 218.207,
 1099 Section 218.215, or Section 218.216 of this Subpart to Section 218.204 of
 1100 this Subpart; the owner or operator of a subject coating line shall certify to

1101 the Agency that the coating line will be in compliance with Section
 1102 218.204 of this Subpart on and after a date consistent with Section
 1103 218.106 of this Part, or on and after the initial start-up date. The Such
 1104 certification shall include:

- 1105
- 1106 A) The name and identification number of each coating as applied on
- 1107 each coating line;
- 1108
- 1109 B) The weight of VOM per volume of each coating (minus water and
- 1110 any compounds which are specifically exempted from the
- 1111 definition of VOM) as applied each day on each coating line; and
- 1112
- 1113 C) On and after March 15, 1998, for coating lines subject to the
- 1114 limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the
- 1115 weight of VOM per weight of solids in each coating as applied
- 1116 each day on each coating line;-
- 1117
- 1118 D) For coating lines subject to the limitations of Section 218.204(c)(2)
- 1119 of this Subpart, the weight of VOM per weight of solids (or the
- 1120 weight of VOM per weight of coatings, as applicable) in each
- 1121 coating as applied each day on each coating line; and
- 1122
- 1123 E) For coating lines subject to the limitations of Section 218.204(g)(2)
- 1124 or 218.204(h)(2) of this Subpart, the application methods used to
- 1125 apply coatings on the subject coating line and the weight of VOM
- 1126 per volume of each coating (or the weight of VOM per volume of
- 1127 solids in each coating, as applicable) as applied each day on each
- 1128 coating line.
- 1129

1130 2) On and after a date consistent with Section 218.106 of this Part, or on and
 1131 after the initial start-up date, the owner or operator of a subject coating
 1132 line shall collect and record all of the following information each day for
 1133 each coating line and maintain the information at the source for a period of
 1134 three years:

- 1135
- 1136 A) The name and identification number of each coating as applied on
- 1137 each coating line;
- 1138
- 1139 B) The weight of VOM per volume of each coating (minus water and
- 1140 any compounds which are specifically exempted from the
- 1141 definition of VOM) as applied each day on each coating line;
- 1142
- 1143 C) On and after March 15, 1998, for coating lines subject to the

- 1144 limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the
 1145 weight of VOM per weight of solids in each coating as applied
 1146 each day on each coating line and certified product data sheets for
 1147 each coating; ~~and~~
 1148
- 1149 D) On and after March 15, 1998, for wood furniture coating spray
 1150 booths subject to the limitations of Section 218.204(l)(4)(A) of this
 1151 Subpart, the weight of VOM per weight of solids in each strippable
 1152 spray booth coating as applied each day on each spray booth and
 1153 certified product data sheets for each coating;:-
 1154
- 1155 E) For coating lines subject to the limitations of Section 218.204(c)(2)
 1156 of this Subpart, the weight of VOM per weight of solids (or the
 1157 weight of VOM per weight of coatings, as applicable) in each
 1158 coating as applied each day on each coating line, and certified
 1159 product data sheets for each coating; and
 1160
- 1161 F) For coating lines subject to the limitations of Section 218.204(g)(2)
 1162 or 218.204(h)(2) of this Subpart, the weight of VOM per volume
 1163 of each coating (or the weight of VOM per volume of solids in
 1164 each coating, as applicable) as applied each day on each coating
 1165 line, and certified product data sheets for each coating.
 1166
- 1167 3) On and after a date consistent with Section 218.106 of this Part, the owner
 1168 or operator of a subject coating line shall notify the Agency in the
 1169 following instances:
 1170
- 1171 A) Any record showing violation of Section 218.204 of this Subpart
 1172 shall be reported by sending a copy of such record to the Agency
 1173 within 30 days following the occurrence of the violation.
 1174
- 1175 B) At least 30 calendar days before changing the method of
 1176 compliance from Section 218.204 of this Subpart to Section
 1177 218.205 or Section 218.207 of this Subpart, the owner or operator
 1178 shall comply with all requirements of subsection (d)(1) or (e)(1) of
 1179 this Section below, respectively. Upon changing the method of
 1180 compliance from Section 218.204 of this Subpart to Section
 1181 218.205 of this Subpart or Section 218.207 of this Subpart, the
 1182 owner or operator shall comply with all requirements of subsection
 1183 (d) or (e) of this Section, respectively.
 1184
- 1185 d) Any owner or operator of a coating line subject to the limitations of Section
 1186 218.204 of this Subpart and complying by means of Section 218.205 of this

Subpart shall comply with the following:

- 1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing subject coating line from Section 218.204 or Section 218.207 of this Subpart to Section 218.205 of this Subpart; the owner or operator of the subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.205 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. TheSuch certification shall include:
 - A) The name and identification number of each coating line which will comply by means of Section 218.205 of this Subpart.
 - B) The name and identification number of each coating as applied on each coating line.
 - C) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
 - D) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
 - E) For coating lines subject to the limitations of Section 218.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
 - F) For coating lines subject to the limitations of Section 218.204(g)(2) or 218.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
 - GE) 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.
 - HF) The method by which the owner or operator will create and

- 1230 maintain records each day as required in subsection (d)(2) of this
 1231 Section.
 1232
- 1233 ~~I~~G) An example of the format in which the records required in
 1234 subsection (d)(2) of this Section will be kept.
 1235
- 1236 2) On and after a date consistent with Section 218.106 of this Part, or on and
 1237 after the initial start-up date, the owner or operator of a subject coating
 1238 line shall collect and record all of the following information each day for
 1239 each coating line and maintain the information at the source for a period of
 1240 three years:
 1241
- 1242 A) The name and identification number of each coating as applied on
 1243 each coating line.
 1244
- 1245 B) The weight of VOM per volume and the volume of each coating
 1246 (minus water and any compounds which are specifically exempted
 1247 from the definition of VOM) as applied each day on each coating
 1248 line.
 1249
- 1250 C) On and after March 15, 1998, for coating lines subject to the
 1251 limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the
 1252 weight of VOM per weight of solids in each coating as applied
 1253 each day on each coating line.
 1254
- 1255 D) For coating lines subject to the limitations of Section 218.204(c)(2)
 1256 of this Subpart, the weight of VOM per weight of solids (or the
 1257 weight of VOM per weight of coatings, as applicable) in each
 1258 coating as applied each day on each coating line.
 1259
- 1260 E) For coating lines subject to the limitations of Section 218.204(g)(2)
 1261 or 218.204(h)(2) of this Subpart, the weight of VOM per volume
 1262 of each coating (or the weight of VOM per volume of solids in
 1263 each coating, as applicable) as applied each day on each coating
 1264 line.
 1265
- 1266 ~~F~~D) The daily-weighted average VOM content of all coatings as
 1267 applied on each coating line as defined in Section 218.104 of this
 1268 Part.
 1269
- 1270 3) On and after a date consistent with Section 218.106 of this Part, the owner
 1271 or operator of a subject coating line shall notify the Agency in the
 1272 following instances:

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- A) Any record showing violation of Section 218.205 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
- B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.205 of this Subpart to Section 218.204 or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (c)(1) or (e)(1) of this Section, respectively. Upon changing the method of compliance with this subpart from Section 218.205 to Section 218.204 or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (c) or (e) of this Section, respectively.
- e) Any owner or operator of a coating line subject to the limitations of Section 218.207 of this Subpart and complying by means of Section 218.207(c), (d), (e), (f), (g), ~~or (h)~~, or (l) of this Subpart shall comply with the following:
 - 1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 218.204 or Section 218.205 of this Subpart to Section 218.207 of this Subpart, the owner or operator of the subject coating line shall perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject coating line will be in compliance with Section 218.207 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date.
 - 2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
 - A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 218.207(b)(2) of this Subpart.
 - B) Control device monitoring data.
 - C) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line.

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- D) A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.
 - 3) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:
 - A) Any record showing violation of Section 218.207 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
 - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all requirements of subsection (c)(1) or (d)(1) of this Section, respectively. Upon changing the method of compliance with this subpart from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.
 - f) Any owner or operator of a primer surfacer operation or topcoat operation subject to the limitations of Section 218.204(a)(2) or (a)(3) of this Subpart shall comply with the following:
 - 1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new coating operation, the owner or operator of a subject coating operation shall certify to the Agency that the operation will be in compliance with Section 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. The~~Sueh~~ certification shall include:
 - A) The name and identification number of each coating operation which will comply by means of Section 218.204(a)(2) and (a)(3) of this Subpart and the name and identification number of each coating line in each coating operation.
 - B) The name and identification number of each coating as applied on each coating line in the coating operation.

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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) of this Sectionbelow.
 - H) An example format for presenting the records required in subsection (f)(2) of this Sectionbelow.
- 2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each operation and maintain the information at the source for a period of three years:
- A) All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 218.204(a)(2) or (a)(3) of this Subpart including:
 - i) The name and identification number of each coating as applied on each coating operation.
 - 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

1402 emissions, control device monitoring data; a log of operating time
1403 for the capture system, control device, monitoring equipment and
1404 the associated coating operation; and a maintenance log for the
1405 capture system, control device and monitoring equipment,
1406 detailing all routine and non-routine maintenance performed
1407 including dates and duration of any outages.
1408

1409 3) On and after a date consistent with Section 218.106 of this Part or on and
1410 after the initial start-up date, the owner or operator of a subject coating
1411 operation shall determine and record the daily VOM emissions in kg (lbs)
1412 per 1 (gal) of coating solids deposited in accordance with the proposal
1413 submitted and approved pursuant to Section 218.204(a)(2) or (a)(3) of this
1414 Subpart within 10 days from the end of the month and maintain this
1415 information at the source for a period of three years.
1416

1417 4) On and after a date consistent with Section 218.106 of this Part, the owner
1418 or operator of a subject coating operation shall notify the Agency in the
1419 following instances:
1420

1421 A) Any record showing a violation of Section 218.204(a)(2) or (a)(3)
1422 of this Subpart shall be reported by sending a copy of such record
1423 to the Agency within 15 days from the end of the month in which
1424 the violation occurred.
1425

1426 B) The owner or operator shall notify the Agency of any change to the
1427 operation at least 30 days before the change is effected. The
1428 Agency shall determine whether or not compliance testing is
1429 required. If the Agency determines that compliance testing is
1430 required, then the owner or operator shall submit a testing proposal
1431 to the Agency within 30 days and test within 30 days of the
1432 approval of the proposal by the Agency and USEPA.
1433

1434 g) On and after a date consistent with Section 218.106(e) of this Part, or on and after
1435 the initial startup date, whichever is later, the owner or operator of a coating line
1436 subject to the requirements of Section 218.218 of this Subpart shall comply with
1437 the following:
1438

1439 1) By May 1, 2011, or upon initial startup, whichever is later, submit a
1440 certification to the Agency that includes a description of the practices and
1441 procedures that the source will follow to ensure compliance with the
1442 applicable requirements in Section 218.218 of this Subpart;
1443

- 1444 2) Notify the Agency of any violation of Section 218.218 of this Subpart by
1445 providing a description of the violation and copies of records documenting
1446 the violation to the Agency within 30 days following the occurrence of the
1447 violation; and
1448
1449 3) Maintain at the source all records required by this subsection (g) for a
1450 minimum of three years from the date the document was created and make
1451 those records available to the Agency upon request.
1452

1453 (Source: Amended at 34 Ill. Reg. _____, effective _____)
1454

1455 **Section 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines**
1456

- 1457 a) On and after March 15, 1996, any owner or operator of a coating line subject to
1458 the limitations set forth in Section 218.204 of this Subpart, except coating lines
1459 subject to the limitations in Section 218.204(c)(2), (g)(2), or (h)(2) of this
1460 Subpart, and with coating lines in operation prior to January 1, 1991 ("pre-
1461 existing coating lines"), may, for pre-existing coating lines only, elect to comply
1462 with the requirements of this Section, rather than complying with the applicable
1463 emission limitations set forth in Section 218.204, if an operational change of the
1464 type described below has been made after January 1, 1991, to one or more pre-
1465 existing coating lines at the source. An operational change occurs when a pre-
1466 existing coating line is replaced with a line using lower VOM coating for the
1467 same purpose as the replaced line ("replacement line"). A source electing to rely
1468 on this Section to demonstrate compliance with the requirements of this Subpart
1469 shall operate pursuant to federally enforceable permit conditions approved by the
1470 Agency and USEPA.
1471
1472 b) An owner or operator of pre-existing coating lines subject to a VOM content
1473 limitation in Section 218.204 of this Subpart and electing to rely on this Section to
1474 demonstrate compliance with this Subpart must establish, by use of the equations
1475 in subsection (d) of this Section, that the calculated actual daily VOM emissions
1476 from all participating coating lines, as defined below, are less than the calculated
1477 daily allowable VOM emissions from the same group of coating lines. For any
1478 pre-existing coating line to be aggregated for the purposes of Section 218.212,
1479 218.213, or 218.214 of this Subpart ("participating coating lines"), the source
1480 must establish that:
1481
1482 1) All coatings applied on the participating coating line shall, at all times,
1483 have a VOM content less than or equal to the applicable VOM content
1484 limitation for such coating listed in Appendix H of this Part; and
1485
1486 2) On the date the source elects to rely on this Section to demonstrate

- 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/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 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 (d)(2)(A) and (d)(2)(B) of this Section.

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

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

where:

- A_1 = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied in the participating coating lines;

- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (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/l VOM (7.36 lbs VOM/gal VOM);
- V_i = Volume of each coating applied for the day in units of l (gal) of coating (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 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

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1551
1552

where:

- A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- h = Subscript denoting a specific powder coating line;
- j = Subscript denoting a specific powder coating applied;
- m = Total number of participating powder coating lines;
- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);

- 1568 3) Minimize spills of VOM-containing cleaning materials;
1569
1570 4) Convey VOM-containing cleaning materials from one location to another
1571 in closed containers or pipes; and
1572
1573 5) Minimize VOM emissions from the cleaning of storage, mixing, and
1574 conveying equipment.
1575
1576 b) On and after May 1, 2011, every owner or operator of a source subject to the
1577 requirements of Section 218.204(g) or 218.204(h) of this Subpart shall:
1578
1579 1) Store all VOM-containing coatings, thinners, coating-related waste
1580 materials, cleaning materials, and used shop towels in closed containers;
1581
1582 2) Ensure that mixing and storage containers used for VOM-containing
1583 coatings, thinners, coating-related waste materials, and cleaning materials
1584 are kept closed at all times except when depositing or removing those
1585 materials;
1586
1587 3) Minimize spills of VOM-containing coatings, thinners, coating-related
1588 waste materials, and cleaning materials, and clean up spills immediately;
1589
1590 4) Convey VOM-containing coatings, thinners, coating-related waste
1591 materials, and cleaning materials from one location to another in closed
1592 containers or pipes; and
1593
1594 5) Minimize VOM emissions from the cleaning of storage, mixing, and
1595 conveying equipment.
1596
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(Source: Added at 34 Ill. Reg. _____, effective _____)

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)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
219.106	Amended
219.204	Amended
219.205	Amended
219.207	Amended
219.210	Amended
219.211	Amended
219.212	Amended
219.218	New
- 4) Statutory Authority: Implementing Section 10 and authorized by Sections 27, 28 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5]
- 5) A Complete Description of the Subjects and Issues Involved: The proposed rulemaking intends to satisfy Illinois' obligation to submit a State Implementation Plan addressing requirements under Sections 172 and 182 of the federal Clean Air Act, 42 USC 7401 et seq., for sources of volatile organic material (VOM) emissions in areas designated as nonattainment with respect to the ozone National Ambient Air Quality Standard. The United States Environmental Protection Agency (USEPA) issued Control Techniques Guidelines (CTGs) for the following Group III Consumer and Commercial Product Categories: Paper, Film, and Foil Coatings, Metal Furniture Coatings, and Large Appliance Coatings. In the CTGs, the USEPA recommended control measures that it believes constitute reasonably available control technology for the product categories. The Illinois EPA proposes amending Part 219 to implement such recommendations for the Metro East nonattainment area. Generally, the proposal amends VOM content limitations and exclusions, requires that metal furniture and large appliance coating lines comply with application method limitations, and requires that subject coating lines implement specified work practices for cleaning materials and/or cleaning-related activities.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the Illinois EPA's Technical Support Document, which relied on several sources. Copies of the documents the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below:

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CLERK'S OFFICE
NOV 17 2009
STATE OF ILLINOIS
Pollution Control Board

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

Control Techniques Guidelines for Paper, Film, and Foil Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

Control Techniques Guidelines for Metal Furniture Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

Control Techniques Guidelines for Large Appliance Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2007.

- 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 proposed amendments pending on this Part? No
- 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) (2006)]
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: Interested persons may request copies of the Board's opinion and order by calling the Clerks office at 312/814-3620, or may download copies from the Board's Web site at www.ipcb.state.il.us. The Board will accept written public comment on this proposal for 45 days after the date of publication in the *Illinois Register*. Comments should refer to Docket R10-10 and be addressed to:

Clerk's Office
Illinois Pollution Control Board
100 W. Randolph St., Suite 11-500
Chicago, IL 60601
312/814-3620

The Board has scheduled hearings according to the deadlines and for the purposes established by Section 28.5. Each hearing will continue from day-to-day until business is

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

completed:

First hearing: Wednesday, December 9, 2009
10:00 AM
James R. Thompson Center
100 W. Randolph St.
Pollution Control Board Conference Room 11-512
Chicago, Illinois

Second hearing: Wednesday, January 6, 2010
(if necessary) 10:00 AM
Michael A. Bilandic Building
160 N. LaSalle Street
Room N-505
Chicago, Illinois

Third hearing: Wednesday, January 20, 2010
(if necessary) 10:00 AM
Michael A. Bilandic Building
160 N. LaSalle Street
Room N-505
Chicago, Illinois

A November 5, 2009 hearing officer order contains additional details concerning participation in the rulemaking. For more information contact Hearing Officer Tim Fox at 312/814-6085 or email at foxt@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 falls within one of the Group III Product Categories and meets the applicability thresholds specified in the proposal.
- B) Reporting, bookkeeping or other procedures required for compliance: The proposed rulemaking requires 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

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

beyond those currently required by the existing State and federal air pollution control regulations applicable to affected sources will be required.

- 14) Regulatory Agenda on which this rulemaking was summarized: July 2009

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

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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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AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, ~~28,28~~ and 28.5].

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 R10-10 at 34 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 219.106 Compliance Dates

- a) Except as provided in subsection (b) 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(c) (2), 219.204(g) (2), or 219.204(h) (2) of this Part shall comply with the applicable requirements in ~~such Section(s)~~ the applicable subsections, as well as all applicable requirements in Sections 219.205 through 219.214 and 219.218, by May 1, 2011.

(Source: Amended 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 otherwise provided in ~~Sections~~Section 219.204(c), 219.204(g), 219.204(h), and 219.204(l), 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/llb/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/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) Sheet basecoat and ~~overvarnish~~ overvarnish A) 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/l	lb/gal
c) Paper Coating		0.35	(2.9)

			0.28*	(2.3)*
kg/l	lb lb/gal	1) Prior to May 1, 2011:	0.28	(2.3)
2011:		2) On and after May 1,		
<u>lb</u> (lb VOM/lb)	(lb VOM/lb)	solids <u>applied</u>	coatings applied	<u>applied coatings</u>
<u>applied</u> A)	Pressure sensitive	tape and		
label surface	coatings	0.20	(0.067)	
	B) All other paper coatings	0.40	(0.08)	

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 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. On and after May 1, 2011, the paper coating limitation shall also not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.)

kg/l lb/gal	Coil Coating	kg/l lb/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) Prior to May 1, 2011:	
<u>Dried</u> 0.34	(2.8)	kg/l	lb gal	All galA)	Air dried	
(2.3)	2) On and after May 1, 2011:				0.28	
<u>(lb/gal)</u> (lb/gal)	(lb/gal)			solids <u>applied</u>		
Applied A)	General, One Component	0.275		0.40		
<u>0.275</u> 0.40	(2.3)	(3.3)	B) General, Multi-			
Component iComponenti)	Air Dried	0.340		0.55		
<u>0.340</u> 0.55	(2.8)	(4.5)ii)	Baked	0.275		0.40
(2.3)	<u>0.360</u> 0.61	(3.0)	(3.35.1)C)	Extreme High Gloss	i) <u>Gloss</u> i)	Air
Dried	0.340	0.55	<u>0.340</u> 0.55	(2.8)	(4.5)ii)	Baked
	0.360	0.61	<u>0.360</u> 0.61	(3.0)	(5.1)D)	Extreme
Performance	i) <u>Performance</u> e)	Air Dried	0.420		0.80	
<u>0.420</u> 0.80	(3.5)	(6.7)ii)	Baked	0.360	0.61	
<u>0.360</u> 0.61	(3.0)	(5.1)E)	Heat Resistant iResistanti)			Air Dried
	0.420	0.80	<u>0.420</u> 0.80	(3.5)	(6.7)ii)	Baked
0.360	0.61	0.80	<u>0.360</u> 0.61	(3.0)	(5.1)	F) Metallic
	0.420	0.80	<u>0.420</u> 0.80	(3.5)	(6.7)	
G) Pretreatment Coatings	0.420	0.80	<u>0.420</u> 0.80	(3.5)		
(6.7)H)	Solar Absorbent	i) <u>Absorbent</u> i)	Air Dried			
0.420	0.80	<u>0.420</u> 0.80	(3.5)	(6.7)ii)	Baked	
0.360	0.61	<u>0.360</u> 0.61	(3.0)	(5.1)		

- 1) Air-dried 0.36 (3.0) 0.34* (2.8)*
- 2) Baked 0.36 (3.0) 0.28* (2.3)*

(Note: On and after May 1, 2011, these limitations shall not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (g) ~~of this Section~~ shall apply all coatings using one or more of the following application methods:

- A) Electrostatic spray;
- B) High volume low pressure (HVLP) spray;
- C) Flow coating. For the purposes of this subsection (g), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
- D) Roll coating;
- E) Dip coating, including electrodeposition. For purposes of this subsection (g), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or
- F) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

h) Large Appliance Coating	1) Prior to May 1, 2011:			
	kg/l	lb/gal	Allb/galA)	Air dried
Dried 0.34 (2.8)				0.28
(2.3)	2) On and after May 1, 2011:	kg/l		kg/l <u>kg/l</u>
(lb/gal) (lb/gal) (lb/gal)			solids applied	
Applied	A) General, One Component	0.275		0.40
<u>0.2750.40</u> (2.3)	(3.3) B) General, Multi-Component	0.55	<u>0.3400.55</u> (2.8)	0.40
Air Dried		0.275	0.40	<u>0.2750.40</u> (2.3)
(4.5) ii) Baked	(3.3) C) Extreme High Gloss	0.275	0.40	<u>0.2750.40</u> (2.3)
		0.55	0.40	<u>0.2750.40</u> (2.3)
(3.3) ii) Baked	(4.5) ii) Baked	0.340	0.360	<u>0.3400.360</u> (3.0)
0.55		0.61	0.3600.61	<u>0.3400.360</u> (3.0)
0.61	(5.1) D) Extreme Performance	0.420	0.80	<u>0.4200.80</u> (3.5)
<u>0.3600.61</u> (3.0)	(6.7) ii) Baked	0.360	0.61	<u>0.3600.61</u> (3.0)
Performance	(5.1) E) Heat Resistant	0.420	0.80	<u>0.4200.80</u> (3.5)
(6.7) ii) Baked	(6.7) ii) Baked	0.360	0.61	<u>0.3600.61</u> (3.0)
(5.1) E) Heat Resistant	(5.1) F) Metallic	0.420	0.80	<u>0.4200.80</u> (3.5)
<u>0.4200.80</u> (3.5)	(6.7) G) Pretreatment	0.420	0.80	<u>0.4200.80</u> (3.5)
<u>0.3600.61</u> (3.0)	(6.7) H) Solar Absorbent	0.420	0.80	<u>0.4200.80</u> (3.5)
Coatings	(6.7) ii) Baked	0.360	0.61	<u>0.3600.61</u> (3.0)
Solar Absorbent		0.360	0.61	<u>0.3600.61</u> (3.0)
0.80		0.360	0.61	<u>0.3600.61</u> (3.0)
ii) Baked		0.360	0.61	<u>0.3600.61</u> (3.0)

- 1) Air-dried 0.34 (2.8)
0.34* (2.8)*
- 2) Baked 0.34 (2.8)
0.28* (2.3)*

(Note: These limitations 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 l (1 quart) in any one rolling eight-hour period. On and after May 1, 2011, these limitations shall also not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (h) ~~of this Section~~ shall apply all coatings using one or more of the following application methods:

A) Electrostatic spray;

B) High volume low pressure (HVLP) spray;

C) Flow coating. For the purposes of this subsection (h), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;

D) Roll coating;

E) Brush coating;

F) Dip coating, including electrodeposition. For purposes of this subsection (h), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or

G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

~~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 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 Air Dried 0.42 (3.5) 0.40 * (3.3) * B) Baked 0.36 (3.0) 0.34 * (2.8) * 5) Metallic ~~Coating~~ Coating Air 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.

l) Wood Furniture Coating 1) Limitations before March 15, 1998: kg/llb/gal ~~Agal~~ A) Clear topcoat 0.67 (5.6) B) Opaque stain 0.56 (4.7) C) Pigmented coat 0.60 (5.0) D) Repair coat 0.67 (5.6) E) Sealer 0.67 (5.6) F) Semi-transparent stain 0.79 (6.6) G) Wash coat 0.73 (6.1)

(Note: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all coatings, with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.)

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/llb/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.

m) Plastic Parts Coating: Automotive/Transportation kg/llb/gal 1) ~~Interiors~~ ~~A) Baked~~ ~~Interiors~~ A) ~~Baked~~ Color coat 0.49*(4.1)*ii) Primer 0.46*(3.8)*B) Air ~~Dried~~ ~~Dried~~ Color coat 0.38*(3.2)*ii) Primer 0.42*(3.5)*2) Exteriors (flexible and non-flexible) A) ~~Baked~~ ~~Baked~~ 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~~ ~~Dried~~ 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~~~~SpecialtyA~~Vacuum ~~metalizing~~~~metallizing~~ basecoats, texture basecoats0.66*(5.5)*B)Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings0.71*(5.9)*C)Gloss reducers, vacuum ~~metalizing~~~~metallizing~~ topcoats, and texture topcoats0.77*(6.4)*D)Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings0.82*(6.8)*E)Head lamp lens coatings0.89*(7.4)*

n)Plastic Parts Coating: Business Machinekg/1lb/gall)Primer0.14*(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 coatings0.48*(4.0)*5)Specialty ~~CoatingsA~~~~CoatingsA~~Soft coat0.52*(4.3)*B)Plating resist0.71*(5.9)*C)Plating sensitizer0.85*(7.1)*

(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), ~~ex~~(h), or (i) 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), ~~(e)~~, ~~(d)~~, (e), (f), ~~ex~~(i), or , prior to May 1, 2011, (c) 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~~~~that~~ 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~~~~that~~ 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~~that 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~~that 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~~that 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~~that 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~~that 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~~that 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~~that 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~~that 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~~that 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~~that 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.

i) On and after May 1, 2011, no owner or operator of a paper coating line subject to the limitations of Section 219.204(c) of this Subpart shall apply coatings on the subject coating line unless the requirements in subsection (i)(1) or (i)(2) of this Section are met:

1) For each coating line ~~which~~that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(c) during the same day (e.g., all coatings used on the line are subject to 0.40 kg/kg solids ~~+(0.08 kg/kg coatings+)~~), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

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

(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), ~~or~~(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), ~~(e), (d)~~, (e), (f), ~~or~~ (i), or, prior to May 1, 2011, (c) 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 that~~ 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/~~1-1~~ (3.5 lbs/gal~~1~~), and ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

e) No owner or operator of a heavy off-highway vehicle products coating line ~~which that~~ 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/~~1-1~~

(3.5 lbs/gal)), and ~~which~~that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

f) No owner or operator of a wood furniture coating line ~~which~~that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 219.204(1) of this Subpart (e.g., all coatings used on the line are subject to 0.67 kg/l ~~+(5.6 lbs/gal)~~), and ~~which~~that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. 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(1) 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 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.

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~~that 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~~that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

i) Prior to May 1, 2011, ~~no~~owner or operator of a metal furniture coating line ~~which~~that 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~~that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b) (1) or (b) (2) of this Section are met.

j) Prior to May 1, 2011, ~~no~~no owner or operator of a large appliance coating line ~~which~~that 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~~that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b) (1) or (b) (2) of this Section are met.

k) On and after May 1, 2011, no owner or operator of a paper coating line, metal furniture coating line, or large appliance 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 complies with the applicable limitation set forth in Section 219.204 of this Subpart by utilizing a combination of low-VOM coatings and a capture system and control device.

(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 of this~~ Section:

a) No owner or operator of a coating line ~~which~~that 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 in Section 219.204(c)(2), 219.204(g)(2), or 219.204(h)(2) 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(c)(2), 219.204(g)(2), or 219.204(h)(2), as applicable, or the alternative control options in Section 219.205 or 219.207, and all applicable requirements in Sections 219.211 and 219.218 of this Subpart.

(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 that~~ 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 that~~ 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~~ The 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; ~~-~~

D) For coating lines subject to the limitations of Section 219.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line; and

E) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the application ~~method(s)~~ methods used to apply coatings on the subject coating line and the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

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 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(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line and certified product data sheets for each coating; ~~and~~

D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitation of Section 219.204(l)(4)(A) of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified product data sheets for each coating; ~~and~~

E) For coating lines subject to the limitations of Section 219.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating; and

F) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating.

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~~ The 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(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.

F) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

~~GEG~~) 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.

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

~~IGI~~) 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 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(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.

E) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.

~~FDE~~) 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), ~~(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.

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~~ The 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~~of this Section.

H) An example format for presenting the records required in subsection (f)(2) ~~below~~of this Section.

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 ~~startup~~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 ~~affected~~defected. 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 coating line subject to the requirements of Section 219.218 of this Subpart shall comply with the following:

1) By May 1, 2011, or upon initial start-up, whichever is later, submit a certification to the Agency that includes a description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 219.218 of this Subpart;

2) Notify the Agency of any violation of Section 219.218 of this Subpart 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; and

3) Maintain at the source all records required by this subsection (g) for a minimum of three years from the date the document was created and make ~~such~~those records available to the Agency upon request.

(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(c)(2), (g)(2), or (h)(2) 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 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/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

$$A_d = A_1 + A_p$$

where A_1 and A_p are defined in subsections (d)(2)(A) and (d)(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/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_i~~ , A_i the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); V_i = Volume of each coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);

~~and L_i =~~ L_i = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

where:

A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day); h = Subscript denoting a specific powder coating line; j = Subscript denoting a specific powder coating applied; m = Total number of participating powder coating lines; n = Total number of powder coatings applied in the participating coating lines; D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating; L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); ~~and $K =$~~ $K =$ 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.~~

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

Section 219.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings

a) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 219.204(c) of this Subpart shall:

1) Store all VOM-containing cleaning materials in closed containers;

2) Ensure that mixing and storage containers used for VOM-containing materials are kept closed at all times except when depositing or removing ~~such those~~ materials;

3) Minimize spills of VOM-containing cleaning materials;

4) Convey VOM-containing cleaning materials from one location to another in closed containers or pipes; and

5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.

b) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 219.204(g) or 219.204(h) of this Subpart shall:

1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;

2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing ~~such those~~ materials;

3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;

4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and

5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.

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

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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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Padding cell	

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	Count
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Deletions	239
Moved from	0
Moved to	0
Style change	0
Format changed	0
Total changes	415

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3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS
5 FOR STATIONARY SOURCES
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- 117 219.425 Recordkeeping for Leaks
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- 124 219.432 Control Requirements
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135 219.442 Vacuum Producing Systems
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138 219.445 Leaks: General Requirements
139 219.446 Monitoring Program Plan for Leaks
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155 219.465 Compliance Dates (Repealed)
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157
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160 Section
161 219.480 Applicability
162 219.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum
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165 219.483 Material Storage and Transfer
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167 219.485 Leaks
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 218 219.601 Perchloroethylene Dry Cleaners (Repealed)
 219 219.602 Exemptions (Repealed)
 220 219.603 Leaks (Repealed)
 221 219.604 Compliance Dates (Repealed)
 222 219.605 Compliance Plan (Repealed)
 223 219.606 Exception to Compliance Plan (Repealed)
 224 219.607 Standards for Petroleum Solvent Dry Cleaners
 225 219.608 Operating Practices for Petroleum Solvent Dry Cleaners
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 227 219.610 Testing and Monitoring
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 229 219.612 Compliance Dates (Repealed)
 230 219.613 Compliance Plan (Repealed)

231
 232 SUBPART AA: PAINT AND INK MANUFACTURING
 233

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 235 219.620 Applicability
 236 219.621 Exemption for Waterbase Material and Heatset-Offset Ink
 237 219.623 Permit Conditions
 238 219.624 Open-Top Mills, Tanks, Vats or Vessels
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 246 SUBPART BB: POLYSTYRENE PLANTS
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248 Section
 249 219.640 Applicability
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 251 219.644 Emissions Testing

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 253 SUBPART FF: BAKERY OVENS
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255 Section
 256 219.720 Applicability (Repealed)
 257 219.722 Control Requirements (Repealed)
 258 219.726 Testing (Repealed)

- 259 219.727 Monitoring (Repealed)
- 260 219.728 Recordkeeping and Reporting (Repealed)
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264 SUBPART GG: MARINE TERMINALS

265

266 Section

- 267 219.760 Applicability
- 268 219.762 Control Requirements
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274 SUBPART HH: MOTOR VEHICLE REFINISHING

275

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- 277 219.780 Emission Limitations
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- 289 219.879 Compliance Date (Repealed)
- 290 219.881 Compliance Plan (Repealed)
- 291 219.883 Special Requirements for Compliance Plan (Repealed)
- 292 219.886 Emissions Testing (Renumbered)

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294 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT
295 MANUFACTURING PROCESSES

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297 Section

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- 299 219.923 Permit Conditions
- 300 219.926 Control Requirements
- 301 219.927 Compliance Schedule

302	219.928	Testing
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305		MANUFACTURING PROCESSES
306		
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308	219.940	Applicability
309	219.943	Permit Conditions
310	219.946	Control Requirements
311	219.947	Compliance Schedule
312	219.948	Testing
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315		MANUFACTURING PROCESSES
316		
317	Section	
318	219.960	Applicability
319	219.963	Permit Conditions
320	219.966	Control Requirements
321	219.967	Compliance Schedule
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327	219.980	Applicability
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336	219.990	Exempt Emission Units
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339	219.APPENDIX A	List of Chemicals Defining Synthetic Organic Chemical and Polymer
340		Manufacturing
341	219.APPENDIX B	VOM Measurement Techniques for Capture Efficiency (Repealed)
342	219.APPENDIX C	Reference Methods and Procedures
343	219.APPENDIX D	Coefficients for the Total Resource Effectiveness Index (TRE) Equation
344	219.APPENDIX E	List of Affected Marine Terminals

345 219.APPENDIX G TRE Index Measurements for SOCFI Reactors and Distillation Units
 346 219.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section 219.212 Cross-
 347 Line Averaging
 348

349 AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28 and 28.5 of the
 350 Environmental Protection Act [415 ILCS 5/10, 27, 28 and 28.5].
 351

352 SOURCE: Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-
 353 24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883,
 354 effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May
 355 24, 1993, for a maximum of 150 days; amended in R93-9 at 17 Ill. Reg. 16918, effective
 356 September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective
 357 March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994;
 358 amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18
 359 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg.
 360 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and
 361 R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385,
 362 effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996;
 363 amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21
 364 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective
 365 February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006; amended
 366 in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-10 at 34 Ill. Reg.
 367 _____, effective _____.
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369 SUBPART A: GENERAL PROVISIONS
 370

371 **Section 219.106 Compliance Dates**
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- 373 a) Except as provided in subsection (b) below, compliance with the requirements of
 374 this Part is required by May 15, 1992, consistent with the provisions of Section
 375 219.103 of this Part.
 376
 377 b) As this Part is amended from time to time, compliance dates included in the
 378 specific Subparts supersede the requirements of this Section except as limited by
 379 Section 219.101(b) of this Subpart.
 380
 381 c) Any owner or operator of a source subject to the requirements of Section
 382 219.204(c)(2), 219.204(g)(2), or 219.204(h)(2) of this Part shall comply with the
 383 applicable requirements in the applicable subsections, as well as all applicable
 384 requirements in Sections 219.205 through 219.214 and 219.218, by May 1, 2011.
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386 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 387

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 otherwise provided in Section 219.204(c), 219.204(g), 219.204(h), and Section 219.204(l), 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/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)*

(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.)

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

422 (Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating
 423 solids deposited. Compliance with the limitation shall be based on the daily-
 424 weighted average from an entire topcoat operation. Compliance shall be
 425 demonstrated in accordance with the topcoat protocol referenced in Section
 426 219.105(b) of this Part and the recordkeeping and reporting requirements specified
 427 in Section 219.211(f). Testing to demonstrate compliance shall be performed in
 428 accordance with the topcoat protocol and a detailed testing proposal approved by
 429 the Agency and USEPA specifying the method of demonstrating compliance with
 430 the protocol. Section 219.205 of this Part does not apply to the topcoat limitation.)
 431

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

433	b)	Can Coating	kg/l	lb/gal
		1) Sheet basecoat and overvarnish		
		A) 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		
		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)*

433	c)	Paper Coating	kg/l	lb/gal
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		0.35	(2.9)
		0.28*	(2.3)*
1)	<u>Prior to May 1, 2011:</u>	<u>kg/l</u>	<u>lb/gal</u>
		0.28	(2.3)
2)	<u>On and after May 1, 2011:</u>	<u>kg VOM/kg</u>	<u>kg VOM/kg</u>
		<u>(lb VOM/lb)</u>	<u>(lb VOM/lb)</u>
		<u>solids</u>	<u>coatings</u>
		<u>applied</u>	<u>applied</u>
	A) <u>Pressure sensitive tape and label surface coatings</u>	0.20	(0.067)
	B) <u>All other paper coatings</u>	0.40	(0.08)

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(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Section 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. On and after May 1, 2011, the paper coating limitation shall also not apply to coating performed on or in-line with any digital printing press, or to size presses and on-machine coaters on papermaking machines applying sizing or water-based clays.)

d)	Coil Coating	kg/l	lb/gal
		0.31	(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)	<u>Prior to May 1, 2011:</u>	<u>kg/l</u>	<u>lb/gal</u>
	A) <u>Air Dried</u>	0.34	(2.8)
	B) <u>Baked</u>	0.28	(2.3)
2)	<u>On and after May 1, 2011:</u>	<u>kg/l</u>	<u>kg/l (lb/gal)</u>
		<u>(lb/gal)</u>	<u>solids applied</u>

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

448 (Note: On and after May 1, 2011, these limitations shall not apply to stencil
 449 coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and
 450 thermal-conducting coatings, touch-up and repair coatings, or coating applications
 451 utilizing hand-held aerosol cans.)
 452

453 3) On and after May 1, 2011, an owner or operator of a coating line subject
 454 to the limitations in this subsection (g) shall apply all coatings using one
 455 or more of the following application methods:
 456

457 A) Electrostatic spray;

458 B) High volume low pressure (HVLP) spray;

459 C) Flow coating. For the purposes of this subsection (g), flow coating
 460 means a non-atomized technique of applying coating to a substrate
 461 with a fluid nozzle with no air supplied to the nozzle;
 462

463 D) Roll coating;

464 E) Dip coating, including electrodeposition. For purposes of this
 465 subsection (g), electrodeposition means a water-borne dip coating
 466 process in which opposite electrical charges are applied to the
 467 substrate and the coating. The coating is attracted to the substrate
 468 due to the electrochemical potential difference that is created; or
 469

470 F) Another coating application method capable of achieving a transfer
 471 efficiency equal to or better than that achieved by HVLP spraying,
 472 if such method is approved in writing by the Agency.
 473

474 h) Large Appliance Coating

475 1)	<u>Prior to May 1, 2011:</u>	<u>kg/l</u>	<u>lb/gal</u>
	A) <u>Air Dried</u>	<u>0.34</u>	<u>(2.8)</u>
	B) <u>Baked</u>	<u>0.28</u>	<u>(2.3)</u>
476 2)	<u>On and after May 1, 2011:</u>	<u>kg/l</u>	<u>kg/l (lb/gal)</u>
		<u>(lb/gal)</u>	<u>solids applied</u>
	A) <u>General, One Component</u>	<u>0.275</u>	<u>0.40</u>
		<u>(2.3)</u>	<u>(3.3)</u>
	B) <u>General, Multi-Component</u>		

	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.275</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.3)</u>
C)	<u>Extreme High Gloss</u>		
	i) <u>Air Dried</u>	<u>0.340</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.5)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
D)	<u>Extreme Performance</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
E)	<u>Heat Resistant</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
F)	<u>Metallic</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
G)	<u>Pretreatment Coatings</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
H)	<u>Solar Absorbent</u>		
	i) <u>Air Dried</u>	<u>0.420</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
	ii) <u>Baked</u>	<u>0.360</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.1)</u>
†)	<u>Air-dried</u>	<u>0.34</u> <u>0.34*</u>	<u>(2.8)</u> <u>(2.8)*</u>

2)	Baked	0.34	(2.8)
		0.28*	(2.3)*

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(Note: ~~These limitations~~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 l (1 quart) in any one rolling eight-hour period. On and after May 1, 2011, these limitations shall also not apply to stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, touch-up and repair coatings, or coating applications utilizing hand-held aerosol cans.)

- 3) On and after May 1, 2011, an owner or operator of a coating line subject to the limitations in this subsection (h) shall apply all coatings using one or more of the following application methods:
- A) Electrostatic spray;
 - B) High volume low pressure (HVLP) spray;
 - C) Flow coating. For the purposes of this subsection (h), flow coating means a non-atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Brush coating;
 - F) Dip coating, including electrodeposition. For purposes of this subsection (h), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created; or
 - G) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if such method is approved in writing by the Agency.

i)	Magnet Wire Coating	kg/l	lb/gal
		0.20	(1.7)
		0.20*	(1.7)*
j)	Miscellaneous Metal Parts and Products Coating		
1)	Clear coating	0.52	(4.3)

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		0.52*	(4.3)*
2)	Extreme performance coating		
	A) Air dried	0.42	(3.5)
		0.42*	(3.5)*
	B) Baked	0.42	(3.5)
		0.40*	(3.3)*
3)	Steel pail and drum interior coating	0.52	(4.3)
		0.52*	(4.3)*
4)	All other coatings		
	A) Air Dried	0.42	(3.5)
		0.40*	(3.3)*
	B) Baked	0.36	(3.0)
		0.34*	(2.8)*
5)	Metallic Coating		
	A) Air 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
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.		

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l) Wood Furniture Coating

1)	Limitations before March 15, 1998:	kg/l	lb/gal
	A) Clear topcoat	0.67	(5.6)
	B) Opaque stain	0.56	(4.7)
	C) Pigmented coat	0.60	(5.0)
	D) Repair coat	0.67	(5.6)
	E) Sealer	0.67	(5.6)
	F) Semi-transparent stain	0.79	(6.6)
	G) Wash coat	0.73	(6.1)

(Note: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all coatings, with the exception of no more than 37.8 l (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.)

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

		kg VOM/kg solids	lb VOM/lb solids
A)	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)

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- 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)

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- 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(l)(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(l)(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)

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4) Other wood furniture coating requirements on and after March 15, 1998:

- A) No source subject to the limitations of subsection (l)(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 (l)(2) or (3) of this Section shall comply with the requirements of Section 219.217 of this Subpart.

554 C) Any source subject to the limitations of subsection (1)(2)(A) or (B)
 555 of this Section and utilizing one or more continuous coaters, shall
 556 for each continuous coater, use an initial coating which complies
 557 with the limitations of subsection (1)(2)(A) or (B) of this Section.
 558 The viscosity of the coating in each reservoir shall always be
 559 greater than or equal to the viscosity of the initial coating in the
 560 reservoir. The owner or operator shall:
 561
 562 i) Monitor the viscosity of the coating in the reservoir with a
 563 viscosity meter or by testing the viscosity of the initial
 564 coating and retesting the coating in the reservoir each time
 565 solvent is added;
 566
 567 ii) Collect and record the reservoir viscosity and the amount
 568 and weight of VOM per weight of solids of coating and
 569 solvent each time coating or solvent is added; and
 570
 571 iii) Maintain these records at the source for a period of three
 572 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)*
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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(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), or (i) 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), ~~(e)~~, (d), (e), (f), ~~or (i)~~, or, prior to May 1, 2011, (c) 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 ~~that~~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 ~~that~~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:

618 1) An alternative daily emission limitation for the can coating operation, i.e.
 619 for all of the can coating lines at the source, shall be determined according
 620 to subsection (c)(2) of this Section. Actual daily emissions shall never
 621 exceed the alternative daily emission limitation and shall be calculated by
 622 use of the following equation.
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$$E_b = \sum_{i=1}^n V_i C_i$$

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 625 where:
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- 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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 629 2) The alternative daily emission limitation (A_d) shall be determined for the
 630 can coating operation, i.e. for all of the can coating lines at the source, on
 631 a daily basis as follows:
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$$A_d = \sum_{i=1}^n V_i L_i \frac{(D_i - C_i)}{(D_i - L_i)}$$

633
 634 where:
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- A_d = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;

- n = Total number of surface coatings applied in the can coating operation;
- C_i = The VOM content of each surface coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (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 ~~that~~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 ~~that~~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 ~~that~~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-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 ~~that~~which applies coatings subject to more than one numerical emission limitation in Section 219.204(l)(1) or (l)(3) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

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 ~~that~~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 ~~that~~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 ~~that~~which applies multiple coatings, all of which are

703 subject to the same numerical emission limitation within Section
 704 219.204(g) of this Subpart, during the same day (e.g., all coatings used on
 705 the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
 706 VOM content shall not exceed the coating VOM content limit
 707 corresponding to the category of coating used, or
 708

709 2) For each coating line ~~that~~which applies coatings subject to more than one
 710 numerical emission limitation in Section 219.204(g) of this Subpart,
 711 during the same day, the owner or operator shall have a site specific
 712 proposal approved by the Agency and USEPA as a SIP revision. To
 713 receive approval, the requirements of USEPA's Emissions Trading Policy
 714 Statement (and related policy) must be satisfied.
 715

716 h) No owner or operator of a large appliance coating line subject to the limitations of
 717 Section 219.204(h) of this Subpart shall apply coatings on the subject coating line
 718 unless the requirements of subsection (h)(1) or (h)(2) of this Section are met.
 719

720 1) For each coating line ~~that~~which applies multiple coatings, all of which are
 721 subject to the same numerical emission limitation within Section
 722 219.204(h) of this Subpart, during the same day (e.g., all coatings used on
 723 the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
 724 VOM content shall not exceed the coating VOM content limit
 725 corresponding to the category of coating used, or
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727 2) For each coating line ~~that~~which applies coatings subject to more than one
 728 numerical emission limitation in Section 219.204(h) of this Subpart,
 729 during the same day, the owner or operator shall have a site specific
 730 proposal approved by the Agency and USEPA as a SIP revision. To
 731 receive approval, the requirements of USEPA's Emissions Trading Policy
 732 Statement (and related policy) must be satisfied.
 733

734 i) On and after May 1, 2011, no owner or operator of a paper coating line subject to
 735 the limitations of Section 219.204(c) of this Subpart shall apply coatings on the
 736 subject coating line unless the requirements in subsection (i)(1) or (i)(2) of this
 737 Section are met:
 738

739 1) For each coating line that applies multiple coatings, all of which are
 740 subject to the same numerical emission limitation within Section
 741 219.204(c) during the same day (e.g., all coatings used on the line are
 742 subject to 0.40 kg/kg solids (0.08 kg/kg coatings)), the daily-weighted
 743 average VOM content shall not exceed the coating VOM content limit
 744 corresponding to the category of coating used; or
 745

746 2) For each coating line that applies coatings subject to more than one
747 numerical emission limitation in Section 219.204(c) during the same day,
748 the owner or operator shall have a site-specific proposal approved by the
749 Agency and approved by USEPA as a SIP revision. To receive approval,
750 the requirements of USEPA's Emissions Trading Policy Statement (and
751 related policy), 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
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753 (Source: Amended at 34 Ill. Reg. _____, effective _____)
754

755 **Section 219.207 Alternative Emission Limitations**
756

757 a) Any owner or operator of a coating line subject to Section 219.204 of this Subpart
758 may comply with this Section, rather than with Section 219.204 of this Subpart, if
759 a capture system and control device are operated at all times the coating line is in
760 operation and the owner or operator demonstrates compliance with subsection (c),
761 (d), (e), (f), (g), (h), (i), ~~(j)~~, or (k) of this Section (depending upon the source
762 category) through the applicable coating analysis and capture system and control
763 device efficiency test methods and procedures specified in Section 219.105 of this
764 Part and the recordkeeping and reporting requirements specified in Section
765 219.211(e) of this Subpart; and the control device is equipped with the applicable
766 monitoring equipment specified in Section 219.105(d) of this Part and the
767 monitoring equipment is installed, calibrated, operated and maintained according
768 to vendor specifications at all times the control device is in use. A capture system
769 and control device, which does not demonstrate compliance with subsection (c),
770 (d), (e), (f), (g), (h), (i), (j), or (k) of this Section may be used as an alternative to
771 compliance with Section 219.204 of this Subpart only if the alternative is
772 approved by the Agency and approved by the USEPA as a SIP revision.
773

774 b) Alternative Add-On Control Methodologies
775

776 1) The coating line is equipped with a capture system and control device that
777 provides 81 percent reduction in the overall emissions of VOM from the
778 coating line and the control device has a 90 percent efficiency, or
779

780 2) The system used to control VOM from the coating line is demonstrated to
781 have an overall efficiency sufficient to limit VOM emissions to no more
782 than what is allowed under Section 219.204 of this Subpart. Use of any
783 control system other than an afterburner, carbon adsorption, condensation,
784 or absorption scrubber system can be allowed only if approved by the
785 Agency and approved by the USEPA as a SIP revision. The use of transfer
786 efficiency credits can be allowed only if approved by the Agency and
787 approved by the USEPA as a SIP revision. Baseline transfer efficiencies
788 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), ~~(e)~~, (d), (e), (f), ~~or~~ (i), or, prior to May 1, 2011, (c) 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 ~~that 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 ~~that 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 ~~that 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 ~~that 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 ~~that 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

832 used on the line are subject to 0.67 kg/l ([5.6 lbs/gal]), and ~~that~~ which is equipped
 833 with a capture system and control device shall operate the subject coating line
 834 unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. If
 835 compliance is achieved by meeting the requirements in subsection (b)(2) of this
 836 Section, then the provisions in the note to Section 219.204(l) of this Subpart must
 837 also be met.
 838

839 g) No owner or operator of a can coating line and equipped with a capture system
 840 and control device shall operate the subject coating line unless the requirements in
 841 subsection (g)(1) or (g)(2) of this Section are met.
 842

843 1) An alternative daily emission limitation for the can coating operation, i.e.
 844 for all of the can coating lines at the source, shall be determined according
 845 to Section 219.205(c)(2) of this Subpart. Actual daily emissions shall
 846 never exceed the alternative daily emission limitation and shall be
 847 calculated by use of the following equation:
 848

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

849
 850 where:
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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 ~~that~~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/1 ({3.5 lbs/gal})), and ~~that~~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) ~~Prior to May 1, 2011, no~~owner or operator of a metal furniture coating line ~~that~~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/1 ({2.8 lbs/gal})), and ~~that~~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) ~~Prior to May 1, 2011, no~~owner or operator of a large appliance coating line ~~that~~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/1 ({2.8 lbs/gal})), and ~~that~~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) On and after May 1, 2011, no owner or operator of a paper coating line, metal furniture coating line, or large appliance coating line that is equipped with a capture system and control device 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 complies with the applicable limitation set forth in Section 219.204 of this Subpart by utilizing a combination of low-VOM coatings and a capture system and control device.

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

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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)~~ of this Section below:

- a) No owner or operator of a coating line ~~that~~ 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

938 and 219.213 of this Subpart.

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- 940 g) No owner or operator of a coating line subject to the emission limitations in
 941 Section 219.204(c)(2), 219.204(g)(2), or 219.204(h)(2) of this Subpart shall
 942 operate that coating line on or after a date consistent with Section 219.106(c) of
 943 this Part, unless the owner or operator has complied with, and continues to
 944 comply with, Section 219.204(c)(2), 219.204(g)(2), or 219.204(h)(2), as
 945 applicable, or the alternative control options in Section 219.205 or 219.207, and
 946 all applicable requirements in Sections 219.211 and 219.218 of this Subpart.
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948 (Source: Amended at 34 Ill. Reg. _____, effective _____)
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950 **Section 219.211 Recordkeeping and Reporting**

- 951
- 952 a) The VOM content of each coating and the efficiency of each capture system and
 953 control device shall be determined by the applicable test methods and procedures
 954 specified in Section 219.105 of this Part to establish the records required under
 955 this Section.
 956
- 957 b) Any owner or operator of a coating line ~~that~~^{which} is exempted from the
 958 limitations of Section 219.204 of this Subpart because of Section 219.208(a) or
 959 (b) of this Subpart shall comply with the following:
 960
- 961 1) For sources exempt from Section 219.208(a) of this Subpart, by a date
 962 consistent with Section 219.106 of this Part, the owner or operator of a
 963 coating line or group of coating lines referenced in subsection (b) of this
 964 Section shall certify to the Agency that the coating line or group of coating
 965 lines is exempt under the provisions of Section 219.208(a) of this Subpart.
 966 Such certification shall include:
 967
- 968 A) A declaration that the coating line is exempt from the limitations of
 969 Section 219.204 of this Subpart because of Section 219.208(a) of
 970 this Subpart; and
 971
- 972 B) Calculations ~~that~~^{which} demonstrate that the combined VOM
 973 emissions from the coating line and all other coating lines in the
 974 same category never exceed 6.8 kg (15 lbs) per day before the
 975 application of capture systems and control devices. The following
 976 equation shall be used to calculate total VOM emissions:
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$$T_e = \sum_{j=1}^m \sum_{i=1}^n (A_i B_i)_j$$

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981

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.

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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

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- 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(l) of this Subpart because of

1036 Section 219.208(b) of this Subpart shall notify the Agency if the source's
 1037 VOM emissions exceed the limitations of Section 219.208(b) of this
 1038 Subpart by sending a copy of calculations showing such an exceedance
 1039 within 30 days after the change occurs.
 1040

1041 c) Any owner or operator of a coating line subject to the limitations of Section
 1042 219.204 of this Subpart other than Section 219.204(a)(2) and (a)(3) of this
 1043 Subpart and complying by means of Section 219.204 of this Subpart shall comply
 1044 with the following:
 1045

1046 1) By a date consistent with Section 219.106 of this Part, or upon initial start-
 1047 up of a new coating line, or upon changing the method of compliance from
 1048 an existing subject coating line from Section 219.205, Section 219.207,
 1049 Section 219.215, or Section 219.216 of this Subpart to Section 219.204 of
 1050 this Subpart; the owner or operator of a subject coating line shall certify to
 1051 the Agency that the coating line will be in compliance with Section
 1052 219.204 of this Subpart on and after a date consistent with Section
 1053 219.106 of this Part, or on and after the initial start-up date. ~~The Such~~
 1054 certification shall include:
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1056 A) The name and identification number of each coating as applied on
 1057 each coating line;
 1058

1059 B) The weight of VOM per volume of each coating (minus water and
 1060 any compounds which are specifically exempted from the
 1061 definition of VOM) as applied each day on each coating line; and
 1062

1063 C) On and after March 15, 1998, for coating lines subject to the
 1064 limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the
 1065 weight of VOM per weight of solids in each coating as applied
 1066 each day on each coating line;-
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1068 D) For coating lines subject to the limitations of Section 219.204(c)(2)
 1069 of this Subpart, the weight of VOM per weight of solids (or the
 1070 weight of VOM per weight of coatings, as applicable) in each
 1071 coating as applied each day on each coating line; and
 1072

1073 E) For coating lines subject to the limitations of Section 219.204(g)(2)
 1074 or 219.204(h)(2) of this Subpart, the application methods used to
 1075 apply coatings on the subject coating line and the weight of VOM
 1076 per volume of each coating (or the weight of VOM per volume of
 1077 solids in each coating, as applicable) as applied each day on each
 1078 coating line.

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- 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;
 - E) For coating lines subject to the limitations of Section 219.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line, and certified product data sheets for each coating; and
 - F) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line, and certified product data sheets for each coating.
- 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:

- 1121 A) Any record showing violation of Section 219.204 of this Subpart
1122 shall be reported by sending a copy of such record to the Agency
1123 within 30 days following the occurrence of the violation.
1124
- 1125 B) At least 30 calendar days before changing the method of
1126 compliance from Section 219.204 to Section 219.205 or Section
1127 219.207 of this Subpart, the owner or operator shall comply with
1128 all requirements of subsection (d)(1) or (e)(1) below, respectively.
1129 Upon changing the method of compliance from Section 219.204 to
1130 Section 219.205 or Section 219.207 of this Subpart, the owner or
1131 operator shall comply with all requirements of subsection (d) or (e)
1132 of this Section, respectively.
1133
- 1134 d) Any owner or operator of a coating line subject to the limitations of Section
1135 219.204 of this Subpart and complying by means of Section 219.205 of this
1136 Subpart shall comply with the following:
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- 1138 1) By a date consistent with Section 219.106 of this Part, or upon initial start-
1139 up of a new coating line, or upon changing the method of compliance for
1140 an existing subject coating line from Section 219.204 or Section 219.207
1141 to Section 219.205 of this Subpart; the owner or operator of the subject
1142 coating line shall certify to the Agency that the coating line will be in
1143 compliance with Section 219.205 on and after a date consistent with
1144 Section 219.106 of this Part, or on and after the initial start-up date.
1145 The~~Such~~ certification shall include:
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- 1147 A) The name and identification number of each coating line which
1148 will comply by means of Section 219.205 of this Subpart.
1149
- 1150 B) The name and identification number of each coating as applied on
1151 each coating line.
1152
- 1153 C) The weight of VOM per volume and the volume of each coating
1154 (minus water and any compounds which are specifically exempted
1155 from the definition of VOM) as applied each day on each coating
1156 line.
1157
- 1158 D) On and after March 15, 1998, for coating lines subject to the
1159 limitations of Section 219.204(1)(2)(A) or (B) of this Subpart, the
1160 weight of VOM per weight of solids in each coating as applied
1161 each day on each coating line.
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- E) For coating lines subject to the limitations of Section 219.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the weight of VOM per weight of coatings, as applicable) in each coating as applied each day on each coating line.
 - F) For coating lines subject to the limitations of Section 219.204(g)(2) or 219.204(h)(2) of this Subpart, the weight of VOM per volume of each coating (or the weight of VOM per volume of solids in each coating, as applicable) as applied each day on each coating line.
 - ~~GE~~) 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.
 - ~~HF~~) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) of this Section.
 - ~~IG~~) 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 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(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
 - D) For coating lines subject to the limitations of Section 219.204(c)(2) of this Subpart, the weight of VOM per weight of solids (or the

- 1206 weight of VOM per weight of coatings, as applicable) in each
1207 coating as applied each day on each coating line.
1208
1209 E) For coating lines subject to the limitations of Section 219.204(g)(2)
1210 or 219.204(h)(2) of this Subpart, the weight of VOM per volume
1211 of each coating (or the weight of VOM per volume of solids in
1212 each coating, as applicable) as applied each day on each coating
1213 line.
1214
1215 F) The daily-weighted average VOM content of all coatings as
1216 applied on each coating line as defined in Section 219.104 of this
1217 Part.
1218
1219 3) On and after a date consistent with Section 219.106 of this Part, the owner
1220 or operator of a subject coating line shall notify the Agency in the
1221 following instances:
1222
1223 A) Any record showing violation of Section 219.205 of this Subpart
1224 shall be reported by sending a copy of such record to the Agency
1225 within 30 days following the occurrence of the violation.
1226
1227 B) At least 30 calendar days before changing the method of
1228 compliance with this Subpart from Section 219.205 to Section
1229 219.204 or Section 219.207 of this Subpart, the owner or operator
1230 shall comply with all requirements of subsection (c)(1) or (e)(1) of
1231 this Section, respectively. Upon changing the method of
1232 compliance with this Subpart from Section 219.205 to Section
1233 219.204 or Section 219.207 of this Subpart, the owner or operator
1234 shall comply with all requirements of subsection (c) or (e) of this
1235 Section, respectively.
1236
1237 e) Any owner or operator of a coating line subject to the limitations of Section
1238 219.207 and complying by means of Section 219.207(c), (d), (e), (f), (g), ~~(h)~~, or
1239 (k) of this Subpart shall comply with the following:
1240
1241 1) By a date consistent with Section 219.106 of this Part, or upon initial start-
1242 up of a new coating line, or upon changing the method of compliance for
1243 an existing coating line from Section 219.204 or Section 219.205 to
1244 Section 219.207 of this Subpart, the owner or operator of the subject
1245 coating line shall perform all tests and submit to the Agency the results of
1246 all tests and calculations necessary to demonstrate that the subject coating
1247 line will be in compliance with Section 219.207 of this Subpart on and

- 1248 after a date consistent with Section 219.106 of this Part, or on and after the
1249 initial start-up date.
- 1250
- 1251 2) On and after a date consistent with Section 219.106 of this Part, or on and
1252 after the initial start-up date, the owner or operator of a subject coating
1253 line shall collect and record all of the following information each day for
1254 each coating line and maintain the information at the source for a period of
1255 three years:
- 1256
- 1257 A) The weight of VOM per volume of coating solids as applied each
1258 day on each coating line, if complying pursuant to Section
1259 219.207(b)(2) of this Subpart.
- 1260
- 1261 B) Control device monitoring data.
- 1262
- 1263 C) A log of operating time for the capture system, control device,
1264 monitoring equipment and the associated coating line.
- 1265
- 1266 D) A maintenance log for the capture system, control device and
1267 monitoring equipment detailing all routine and non-routine
1268 maintenance performed including dates and duration of any
1269 outages.
- 1270
- 1271 3) On and after a date consistent with Section 219.106 of this Part, the owner
1272 or operator of a subject coating line shall notify the Agency in the
1273 following instances:
- 1274
- 1275 A) Any record showing violation of Section 219.207 of this Subpart
1276 shall be reported by sending a copy of such record to the Agency
1277 within 30 days following the occurrence of the violation.
- 1278
- 1279 B) At least 30 calendar days before changing the method of
1280 compliance with this Subpart from Section 219.207 to Section
1281 219.204 or Section 219.205 of this Subpart, the owner or operator
1282 shall comply with all requirements of subsection (c)(1) or (d)(1) of
1283 this Section, respectively. Upon changing the method of
1284 compliance with this Subpart Part from Section 219.207 to Section
1285 219.204 or Section 219.205 of this Subpart, the owner or operator
1286 shall comply with all requirements of subsection (c) or (d) of this
1287 Section, respectively.
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- 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 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 start-up date. The~~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) of this Section~~below~~.
 - H) An example format for presenting the records required in subsection (f)(2) of this Section~~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 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.

1375 B) The owner or operator shall notify the Agency of any change to the
 1376 operation at least 30 days before the change is effected. The
 1377 Agency shall determine whether or not compliance testing is
 1378 required. If the Agency determines that compliance testing is
 1379 required, then the owner or operator shall submit a testing proposal
 1380 to the Agency within 30 days and test within 30 days of the
 1381 approval of the proposal by the Agency and USEPA.
 1382

1383 g) On and after a date consistent with Section 219.106(c) of this Part, or on and after
 1384 the initial start-up date, whichever is later, the owner or operator of a coating line
 1385 subject to the requirements of Section 219.218 of this Subpart shall comply with
 1386 the following:
 1387

1388 1) By May 1, 2011, or upon initial start-up, whichever is later, submit a
 1389 certification to the Agency that includes a description of the practices and
 1390 procedures that the source will follow to ensure compliance with the
 1391 applicable requirements in Section 219.218 of this Subpart;
 1392

1393 2) Notify the Agency of any violation of Section 219.218 of this Subpart by
 1394 providing a description of the violation and copies of records documenting
 1395 the violation to the Agency within 30 days following the occurrence of the
 1396 violation; and
 1397

1398 3) Maintain at the source all records required by this subsection (g) for a
 1399 minimum of three years from the date the document was created and make
 1400 those records available to the Agency upon request.
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1402 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 1403

1404 **Section 219.212 Cross-Line Averaging to Establish Compliance for Coating Lines**
 1405

1406 a) On and after March 15, 1996, any owner or operator of a coating line subject to
 1407 the limitations set forth in Section 219.204 of this Subpart, except coating lines
 1408 subject to the limitations in Section 219.204(c)(2), (g)(2), or (h)(2) of this
 1409 Subpart, and with coating lines in operation prior to January 1, 1991 ("pre-
 1410 existing coating lines"), may, for pre-existing coating lines only, elect to comply
 1411 with the requirements of this Section, rather than complying with the applicable
 1412 emission limitations set forth in Section 219.204, if an operational change of the
 1413 type described below has been made after January 1, 1991, to one or more pre-
 1414 existing coating lines at the source. An operational change occurs when a pre-
 1415 existing coating line is replaced with a line using lower VOM coating for the
 1416 same purpose as the replaced line ("replacement line"). A source electing to rely
 1417 on this Section to demonstrate compliance with the requirements of this Subpart

1418 shall operate pursuant to federally enforceable permit conditions approved by the
 1419 Agency and USEPA.

1420
 1421 b) An owner or operator of pre-existing coating lines subject to a VOM content
 1422 limitation in Section 219.204 of this Subpart and electing to rely on this Section to
 1423 demonstrate compliance with this Subpart must establish, by use of the equations
 1424 in subsection (d) of this Section, that the calculated actual daily VOM emissions
 1425 from all participating coating lines, as defined below, are less than the calculated
 1426 daily allowable VOM emissions from the same group of coating lines. For any
 1427 pre-existing coating line to be aggregated for the purposes of Section 219.212,
 1428 219.213, or 219.214 of this Subpart ("participating coating lines"), the source
 1429 must establish that:

- 1430
 1431 1) All coatings applied on the participating coating line shall, at all times,
 1432 have a VOM content less than or equal to the applicable VOM content
 1433 limitation for such coating listed in Appendix H of this Part; and
 1434
 1435 2) On the date the source elects to rely on this Section to demonstrate
 1436 compliance with this Subpart, all coatings applied on the participating
 1437 coating line are not already in compliance with the VOM content
 1438 limitation for such coating effective on or after March 15, 1996; or the
 1439 participating coating line is a replacement line, as defined in subsection (a)
 1440 of this Section with an operational change occurring on or after January 1,
 1441 1991.

1442
 1443 c) Notwithstanding subsection (a) of this Section, any owner or operator of a coating
 1444 line subject to the limitations set forth in Section 219.204 of this Subpart and
 1445 electing to rely on this Section to demonstrate compliance with this Subpart, may
 1446 also include as a participating coating line, until December 31, 1999, only, any
 1447 replacement line that satisfies all of the following conditions:

- 1448
 1449 1) The replacement line is operated as a powder coating line;
 1450
 1451 2) The replacement line was added after July 1, 1988; and
 1452
 1453 3) The owner or operator also includes as a participating coating line one or
 1454 more coating lines that satisfy the criteria of a replacement line, as
 1455 described in subsection (a) of this Section.

1456
 1457 d) To demonstrate compliance with this Section, a source shall establish the
 1458 following:

- 1459
 1460 1) An alternative daily emission limitation shall be determined for all

1461 participating coating lines at the source according to subsection (d)(2) of
 1462 this Section. All participating coating lines shall be factored in each day
 1463 to demonstrate compliance. Provided compliance is established pursuant
 1464 to the requirements in this subsection, nothing in this Section requires
 1465 daily operation of each participating line. Actual daily emissions from all
 1466 participating coating lines (E_d) shall never exceed the alternative daily
 1467 emission limitation (A_d) and shall be calculated by use of the following
 1468 equation:
 1469

1470
$$E_d = \sum_{i=1}^n V_i C_i$$

1471 where:
 1472

- 1473 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/l (lbs VOM/gal) of coating (minus water and any
 compounds which are specifically exempted from the definition
 of VOM).

1474
 1475 2) The alternative daily emission limitation (A_d) shall be determined for all
 1476 participating coating lines at the source on a daily basis as follows:
 1477

1478
$$A_d = A_l + A_p$$

1479 where A_l and A_p are defined in subsections (d)(2)(A) and (d)(2)(B) of this
 1480 subsection.
 1481

1482
 1483 A) The portion of the alternative daily emissions limitation for
 1484 coating operations at a source using non-powder coating (A_l) shall
 1485 be determined for all such participating non-powder coating lines
 1486 on a daily basis as follows:

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

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/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_i , the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);

V_i = Volume of each coating applied for the day in units of l (gal) of coating (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/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

1498

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

1499

1500
1501

where:

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

h = Subscript denoting a specific powder coating line;

j = Subscript denoting a specific powder coating applied;

m = Total number of participating powder coating lines;

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

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

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

L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and

K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained pursuant to the requirements of Section 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.

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

Section 219.218 Work Practice Standards for Paper Coatings, Metal Furniture Coatings, and Large Appliance Coatings

- a) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 219.204(c) of this Subpart shall:
 - 1) Store all VOM-containing cleaning materials in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing cleaning materials;
 - 4) Convey VOM-containing cleaning materials from one location to another in closed containers or pipes; and
 - 5) Minimize VOM emissions from the cleaning of storage, mixing, and conveying equipment.

- b) On and after May 1, 2011, every owner or operator of a source subject to the requirements of Section 219.204(g) or 219.204(h) of this Subpart shall:
 - 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials, and clean up spills immediately;
 - 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and

- 1543 5) Minimize VOM emissions from the cleaning of storage, mixing, and
1544 conveying equipment.

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1546

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