

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

<u>Section Numbers:</u>	<u>Proposed Action:</u>
219.105	Amended
219.106	Amended
219.112	Amended
219.204	Amended
219.205	Amended
219.207	Amended
219.208	Amended
219.210	Amended
219.211	Amended
219.212	Amended
219.219	New
219.890	New
219.891	New
219.892	New
219.894	New
219.900	New
219.901	New
219.902	New
219.903	New
219.904	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 Illinois Environmental Protection Agency (Illinois EPA) proposed this rulemaking 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 IV Consumer and Commercial Product Categories: Miscellaneous Metal and Plastic Parts Coatings, Auto and Light-Duty Truck Coatings, Miscellaneous Industrial Adhesives, and Fiberglass Boat Manufacturing Materials. In the CTGs, the USEPA

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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 Subpart F of Part 219 regarding VOM limitations for automobile and light-duty truck coatings and miscellaneous metal and plastic parts coatings. The proposal also adds Subparts II and JJ to Part 219, which set forth new VOM limitations for fiberglass boat manufacturing materials and miscellaneous industrial adhesives, respectively.

- 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:

Control Techniques Guidelines for Miscellaneous Metal and Plastic Parts Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2008.

Control Techniques Guidelines for Automobile and Light-Duty Truck Assembly Coatings, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2008.

Control Techniques Guidelines for Miscellaneous Industrial Adhesives, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2008.

Control Techniques Guidelines for Fiberglass Boat Manufacturing Materials, United States Environmental Protection Agency, Office of Air Quality Planning and Standards, Research Triangle Park, NC, September 2008.

Consumer and Commercial Products, Group IV: Control Techniques Guidelines in Lieu of Regulations for Miscellaneous Metal Products Coatings, Plastic Parts Coatings, Auto and Light-Duty Truck Assembly Coatings, Fiberglass Boat Manufacturing Materials, and Miscellaneous Industrial Adhesives, 73 Fed. Reg. 58481-91 (Oct. 7, 2008).

National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks; National Emission Standards for Hazardous

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Air Pollutants for Surface Coating of Plastic Parts and Products, 72 Fed. Reg. 20227-37 (Apr. 24, 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? Yes
- 10) Are there any other proposed rulemakings pending on this Part? Yes

<u>Section Number:</u>	<u>Proposed Action:</u>	<u>Illinois Register Citation:</u>
219.106	Amend	33 Ill. Reg. 16460; November 20, 2009
219.204	Amend	33 Ill. Reg. 16460; November 20, 2009
219.205	Amend	33 Ill. Reg. 16460; November 20, 2009
219.207	Amend	33 Ill. Reg. 16460; November 20, 2009
219.210	Amend	33 Ill. Reg. 16460; November 20, 2009
219.211	Amend	33 Ill. Reg. 16460; November 20, 2009
219.212	Amend	33 Ill. Reg. 16460; November 20, 2009
219.218	New	33 Ill. Reg. 16460; November 20, 2009
219.106	Amend	34 Ill. Reg. 1941; February 5, 2010
219.181	Amend	34 Ill. Reg. 1941; February 5, 2010
219.187	New	34 Ill. Reg. 1941; February 5, 2010
219.204	Amend	34 Ill. Reg. 1941; February 5, 2010
219.205	Amend	34 Ill. Reg. 1941; February 5, 2010
219.207	Amend	34 Ill. Reg. 1941; February 5, 2010
219.210	Amend	34 Ill. Reg. 1941; February 5, 2010
219.211	Amend	34 Ill. Reg. 1941; February 5, 2010
219.212	Amend	34 Ill. Reg. 1941; February 5, 2010
219.217	Amend	34 Ill. Reg. 1941; February 5, 2010
219.401	Amend	34 Ill. Reg. 1941; February 5, 2010
219.402	Amend	34 Ill. Reg. 1941; February 5, 2010
219.403	Amend	34 Ill. Reg. 1941; February 5, 2010
219.404	Amend	34 Ill. Reg. 1941; February 5, 2010
219.405	Amend	34 Ill. Reg. 1941; February 5, 2010
219.406	Repeal	34 Ill. Reg. 1941; February 5, 2010
219.407	Amend	34 Ill. Reg. 1941; February 5, 2010
219.408	Repeal	34 Ill. Reg. 1941; February 5, 2010
219.409	Amend	34 Ill. Reg. 1941; February 5, 2010
219.411	Amend	34 Ill. Reg. 1941; February 5, 2010

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219.412	New	34 Ill. Reg. 1941; February 5, 2010
219.413	New	34 Ill. Reg. 1941; February 5, 2010
219.415	New	34 Ill. Reg. 1941; February 5, 2010
219.416	New	34 Ill. Reg. 1941; February 5, 2010
219.417	New	34 Ill. Reg. 1941; February 5, 2010

- 11) Statement of Statewide Policy Objective: This 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)].
- 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 refer to Docket R10-20 and be addressed to:

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

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, April 28, 2010
 9:00 AM
 Illinois Pollution Control Board Conference Room, First Floor
 1021 N. Grand Ave. East
 (North Entrance)
 Springfield, Illinois

Second hearing: Wednesday, May 19, 2010
(if necessary) 10:00 AM
 Pollution Control Board Conference Room 11-512
 James R. Thompson Center
 100 W. Randolph St.

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Chicago, Illinois

Third hearing: Wednesday, June 2, 2010
(if necessary) 10:00 AM
Pollution Control Board Conference Room 11-512
James R. Thompson Center
100 W. Randolph St.
Chicago, Illinois

A March 18, 2010, 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 IV 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 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: January 2010

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 219
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS
FOR THE METRO EAST AREA

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219.104	Definitions
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219.108	Exemptions, Variations, and Alternative Means of Control or Compliance Determinations
219.109	Vapor Pressure of Volatile Organic Liquids
219.110	Vapor Pressure of Organic Material or Solvent
219.111	Vapor Pressure of Volatile Organic Material
219.112	Incorporations by Reference
219.113	Monitoring for Negligibly-Reactive Compounds

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

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219.119	Applicability for VOL
219.120	Control Requirements for Storage Containers of VOL
219.121	Storage Containers of VPL
219.122	Loading Operations
219.123	Petroleum Liquid Storage Tanks
219.124	External Floating Roofs
219.125	Compliance Dates
219.126	Compliance Plan (Repealed)
219.127	Testing VOL Operations
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SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

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219.141	Separation Operations
219.142	Pumps and Compressors
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219.144	Safety Relief Valves

SUBPART E: SOLVENT CLEANING

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219.183 Open Top Vapor Degreasing
219.184 Conveyorized Degreasing
219.185 Compliance Schedule (Repealed)
219.186 Test Methods

SUBPART F: COATING OPERATIONS

Section

219.204 Emission Limitations
219.205 Daily-Weighted Average Limitations
219.206 Solids Basis Calculation
219.207 Alternative Emission Limitations
219.208 Exemptions From Emission Limitations
219.209 Exemption From General Rule on Use of Organic Material
219.210 Compliance Schedule
219.211 Recordkeeping and Reporting
219.212 Cross-Line Averaging to Establish Compliance for Coating Lines
219.213 Recordkeeping and Reporting for Cross-Line Averaging Participating
Coating Lines
219.214 Changing Compliance Methods
219.215 Wood Furniture Coating Averaging Approach
219.216 Wood Furniture Coating Add-On Control Use
219.217 Wood Furniture Coating Work Practice Standards
219.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly
Coatings and Miscellaneous Metal and Plastic Parts Coatings

SUBPART G: USE OF ORGANIC MATERIAL

Section

219.301 Use of Organic Material
219.302 Alternative Standard
219.303 Fuel Combustion Emission Units
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Section

219.401 Flexographic and Rotogravure Printing
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219.405 Lithographic Printing: Applicability
219.406 Provisions Applying to Heatset Web Offset Lithographic Printing
Prior to March 15, 1996
219.407 Emission Limitations and Control Requirements for Lithographic
Printing Lines On and After March 15, 1996
219.408 Compliance Schedule for Lithographic Printing On and After March 15,
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SUBPART Q: SYNTHETIC ORGANIC CHEMICAL AND
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219.421 General Requirements

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219.423 Inspection Program for Leaks
219.424 Repairing Leaks
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219.429 Standards for Control Devices
219.430 Compliance Date (Repealed)
219.431 Applicability
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SUBPART R: PETROLEUM REFINING AND
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219.441 Petroleum Refinery Waste Gas Disposal
219.442 Vacuum Producing Systems
219.443 Wastewater (Oil/Water) Separator
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219.445 Leaks: General Requirements
219.446 Monitoring Program Plan for Leaks
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SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

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219.461 Manufacture of Pneumatic Rubber Tires
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219.463 Alternative Emission Reduction Systems
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219.465 Compliance Dates (Repealed)
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219.480 Applicability
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219.482 Control of Air Dryers, Production Equipment Exhaust Systems and
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219.483 Material Storage and Transfer
219.484 In-Process Tanks
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SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

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219.501 Control Requirements for Batch Operations
219.502 Determination of Uncontrolled Total Annual Mass Emissions and Actual
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219.524 Determination of Applicability
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219.541 Pesticide Exception

SUBPART X: CONSTRUCTION

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219.561 Architectural Coatings
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SUBPART Y: GASOLINE DISTRIBUTION

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219.581 Bulk Gasoline Plants
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219.583 Gasoline Dispensing Operations - Storage Tank Filling Operations
219.584 Gasoline Delivery Vessels
219.585 Gasoline Volatility Standards
219.586 Gasoline Dispensing Operations - Motor Vehicle Fueling Operations
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SUBPART Z: DRY CLEANERS

Section

219.601 Perchloroethylene Dry Cleaners (Repealed)
219.602 Exemptions (Repealed)
219.603 Leaks (Repealed)
219.604 Compliance Dates (Repealed)
219.605 Compliance Plan (Repealed)
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219.607 Standards for Petroleum Solvent Dry Cleaners
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219.610 Testing and Monitoring
219.611 Exemption for Petroleum Solvent Dry Cleaners
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SUBPART AA: PAINT AND INK MANUFACTURING

Section

219.620 Applicability
219.621 Exemption for Waterbase Material and Heatset-Offset Ink
219.623 Permit Conditions
219.624 Open-Top Mills, Tanks, Vats or Vessels
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SUBPART BB: POLYSTYRENE PLANTS

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219.640 Applicability
219.642 Emissions Limitation at Polystyrene Plants
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SUBPART FF: BAKERY OVENS

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219.720 Applicability (Repealed)
219.722 Control Requirements (Repealed)
219.726 Testing (Repealed)
219.727 Monitoring (Repealed)
219.728 Recordkeeping and Reporting (Repealed)
219.729 Compliance Date (Repealed)
219.730 Certification (Repealed)

SUBPART GG: MARINE TERMINALS

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219.764 Compliance Certification
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SUBPART HH: MOTOR VEHICLE REFINISHING

Section

219.780 Emission Limitations
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219.789 Monitoring and Recordkeeping for Control Devices
219.790 General Recordkeeping and Reporting (Repealed)
219.791 Compliance Date
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219.875 Applicability of Subpart BB (Renumbered)
219.877 Emissions Limitation at Polystyrene Plants (Renumbered)
219.879 Compliance Date (Repealed)
219.881 Compliance Plan (Repealed)
219.883 Special Requirements for Compliance Plan (Repealed)
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SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

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219.890 Applicability
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SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

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SUBPART UU: RECORDKEEPING AND REPORTING

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219.990 Exempt Emission Units
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219.APPENDIX A+ List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing
219.APPENDIX B+ VOM Measurement Techniques for Capture Efficiency (Repealed)
219.APPENDIX C+ Reference Methods and Procedures
219.APPENDIX D+ Coefficients for the Total Resource Effectiveness Index (TRE) Equation
219.APPENDIX E+ List of Affected Marine Terminals
219.APPENDIX G+ TRE Index Measurements for SOCFI Reactors and Distillation Units
219.APPENDIX H+ Baseline VOM Content Limitations for Subpart F, Section 219.212 Cross-Line Averaging

AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 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. ~~7086~~7110, effective April 30, 2007; amended in R10-~~20~~20 at 34 Ill. Reg. _____, effective _____.

SUBPART A: GENERAL PROVISIONS

Section 219.105 Test Methods and Procedures

a) Coatings, Inks and Fountain Solutions

The following test methods and procedures shall be used to determine compliance of as applied coatings, inks, and fountain solutions with the limitations set forth in this Part.

1) Sampling: Samples collected for analyses shall be one-liter taken into a one-liter container at a location and time such that the sample will be representative of the coating as applied (i.e., the sample shall include any dilution solvent or other VOM added during the manufacturing process). The container must be tightly sealed immediately after the sample is taken. Any solvent or other VOM added after the sample is taken must be measured and accounted for in the calculations in subsection (a)(3) of this Section. For multiple package coatings, separate samples of each component shall be obtained. A mixed sample shall not be obtained as it will cure in the container. Sampling procedures shall follow the guidelines presented in:

A) ASTM D 3925-81 (1985) standard practice for sampling liquid paints and related pigment coating. This practice is incorporated by reference in Section 219.112 of this Part.

B) ASTM E 300-86 standard practice for sampling industrial chemicals. This practice is incorporated by reference in Section 219.112 of this Part.

2) Analyses: The applicable analytical methods specified below shall be used to determine the composition of coatings, inks, or fountain solutions as applied.

A) Method 24 of 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part, shall be used to determine the VOM content and density of coatings. If it is demonstrated to the satisfaction of the Agency and the USEPA that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. In the event of any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.

B) Method 24A of 40 CFR ~~Part~~ 60, Appendix A, incorporated by reference in Section 219.112, shall be used to determine the VOM content and density of rotogravure printing inks and related coatings. If it is demonstrated to the satisfaction of the Agency and USEPA that the plant coating formulation data are equivalent to Method 24A results, formulation data may be used. In the event of any inconsistency between a Method 24A test and formulation data, the Method 24A test will govern.

C) The following ASTM methods are the analytical procedures for determining VOM:

i) ASTM D 1475-85: Standard test method for density of paint, varnish, lacquer and related products. This test method is incorporated by reference in Section 219.112 of this Part.

ii) ASTM D 2369-87: Standard test method for volatile content of a coating. This test method is incorporated by reference in Section 219.112 of this Part.

iii) ASTM D 3792-86: Standard test method for water content of water-reducible paints by direct injection into a gas chromatograph. This test method is incorporated by reference in Section 219.112 of this Part.

iv) ASTM D 4017-81 (1987): Standard test method for water content in paints and paint materials by the Karl Fischer method. This test method is incorporated by reference in Section 219.112 of this Part.

v) ASTM D 4457-85: Standard test method for determination of dichloromethane and 1,1,1, trichloroethane in paints and coatings by direct injection into a gas chromatograph. (The procedure delineated above can be used to develop protocols for any compounds specifically exempted from the definition of VOM.) This test method is incorporated by reference in Section 219.112 of this Part.

vi) ASTM D 2697-86: Standard test method for volume non-volatile matter in clear or pigmented coatings. This test method is incorporated by reference in Section 219.112 of this Part.

vii) ASTM D 3980-87: Standard practice for interlaboratory testing of paint and related materials. This practice is incorporated by reference in Section 219.112 of this Part.

viii) ASTM E 180-85: Standard practice for determining the precision of ASTM methods for analysis of and testing of industrial chemicals. This practice is incorporated by reference in Section 219.112 of this Part.

ix) ASTM D 2372-85: Standard method of separation of vehicle from solvent-reducible paints. This method is incorporated by reference in Section 219.112 of this Part.

D) Use of an adaptation to any of the analytical methods specified in subsections (a)(2)(A), (B), and (C) of this Section may not be used unless approved by the Agency and USEPA. An owner or operator must submit sufficient documentation for the Agency and USEPA to find that the analytical methods specified in subsections (a)(2)(A), (B), and (C) of this Section will yield inaccurate results and that the proposed adaptation is appropriate.

3) Calculations: Calculations for determining the VOM content, water content and the content of any compounds which are specifically exempted from the definition of VOM of coatings, inks and fountain solutions as applied shall follow the guidance provided in the following documents:

A) "A Guide for Surface Coating Calculation", EPA-340/1-86-016, incorporated by reference in Section 219.112 of this Part.

B) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink and Other Coatings" (revised June 1986), EPA-450/3-84-019, incorporated by reference in Section 219.112 of this Part.

C) "A Guide for Graphic Arts Calculations", August 1988, EPA-340/1-88-003, incorporated by reference in Section 219.112 of this Part.

b) Automobile or Light-Duty Truck Test Protocol

1) The protocol for testing, including determining the transfer efficiency of coating applicators, at primer surfacer operations and topcoat operations at an automobile or light-duty truck assembly source shall follow the procedures in the following:

A) Prior to May 1, 2011: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat

Operations" ("topcoat protocol"), December 1988, EPA-450/3-88-018, incorporated by reference in Section 219.112 of this Part.

B) On and after May 1, 2011: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations" (~~"topcoat protocol"~~), September 2008, EPA-453/R-08-002, incorporated by reference in Section 219.112 of this Part.

2) Prior to testing pursuant to the applicable topcoat protocol, the owner or operator of a coating operation subject to the topcoat or primer surfacer limit in ~~Sections~~Section 219.204(a)(1)(B) ~~(2)~~, ~~or 219.204(a)(1)(C) (3)~~, ~~219.204(a)(2)(B)~~, ~~219.204(a)(2)(C)~~, or ~~219.204(a)(2)(E)~~ shall submit a detailed testing proposal specifying the method by which testing will be conducted and how compliance will be demonstrated consistent with the applicable topcoat protocol. The proposal shall include, at a minimum, a comprehensive plan (including a rationale) for determining the transfer efficiency at each booth through the use of in-plant or pilot testing, the selection of coatings to be tested (for the purpose of determining transfer efficiency) including the rationale for coating groupings, the method for determining the analytic VOM content of as applied coatings and the formulation solvent content of as applied coatings, and a description of the records of coating VOM content as applied and coating's usage ~~which~~that will be kept to demonstrate compliance. Upon approval of the proposal by the Agency and USEPA, the compliance demonstration for a coating line may proceed.

c) Capture System Efficiency Test Protocols

1) Applicability

The requirements of subsection (c)(2) of this Section shall apply to all VOM emitting process emission units employing capture equipment (e.g., hoods, ducts), except those cases noted ~~below~~in this subsection (c)(1).

A) If an emission unit is equipped with (or uses) a permanent total enclosure (PTE) that meets Agency and USEPA specifications, and which directs all VOM to a control device, then the emission unit is exempted from the requirements described in subsection (c)(2) of this Section. The Agency and USEPA specifications to determine whether a structure is considered a PTE are given in Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. In this instance, the capture efficiency is assumed to be 100 percent and the emission unit is still required to measure control efficiency using appropriate test methods as specified in subsection (d) of this Section.

B) If an emission unit is equipped with (or uses) a control device designed to collect and recover VOM (e.g., carbon adsorber), an explicit measurement of capture efficiency is not necessary provided that the conditions given below are met. The overall control of the system can be determined by directly comparing the input liquid VOM to the recovered liquid VOM. The general procedure for use in this situation is given in 40 CFR 60.433, incorporated by reference in Section 219.112 of this Part, with the following additional restrictions:

i) The source owner or operator shall obtain data each operating day for the solvent usage and solvent recovery to permit the determination of the solvent recovery efficiency of the system each operating day using a 7-day rolling period. The recovery efficiency for each operating day is computed as the ratio of the total recovered solvent for that day and the most recent prior 6 operating days to the total solvent usage for the same 7-day period used for the

recovered solvent, rather than a 30-day weighted average as given in 40 CFR 60.433 incorporated by reference in Section 219.112 of this Part. This ratio shall be expressed as a percentage. The ratio shall be computed within 72 hours following each 7-day period. A source that believes that the 7-day rolling period is not appropriate may use an alternative multi-day rolling period not to exceed 30 days, with the approval of the Agency and USEPA. In addition, the criteria in subsection (c)(1)(B)(ii) or subsection (c)(1)(B)(iii) below must be met.

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

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

2) Capture Efficiency Protocols

The capture efficiency of an emission unit shall be measured using one of the protocols given below. Appropriate test methods to be utilized in each of the capture efficiency protocols are described in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. Any error margin associated with a test method or protocol may not be incorporated into the results of a capture efficiency test. If these techniques are not suitable for a particular process, then an alternative capture efficiency protocol may be used, pursuant to the provisions of Section 219.108(b) of this Part.

A) Gas/gas method using temporary total enclosure (TTE). The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are given in Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. The capture efficiency equation to be used for this protocol is:

$$CE = \frac{CW}{(GW + FW)}$$

where:

CE = capture efficiency, decimal fraction; ~~GW~~ Gw = mass of VOM captured and delivered to control device using a TTE; ~~FW~~ Fw = mass of uncaptured VOM that escapes from a TTE. Method 204B or 204C contained in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain ~~GW~~ Gw. Method 204D in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain ~~FW~~ Fw.

B) Liquid/gas method using TTE. The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are given in Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. The capture efficiency equation to be used for this protocol is:

where:

CE=capture efficiency, decimal fraction;L=mass of liquid VOM input to process emission unit;Fw=mass of uncaptured VOM that escapes from a TTE. Method 204A or 204F contained in Appendix M of 40 CFR 51, incorporated by reference in Section 219.112 of this Part is used to obtain L. Method 204in Appendix M of 40 CFR 51, incorporated by reference in Section 219.112 of this Part is used to obtain Fw.

C) Gas/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line or other emission unit is located, as the enclosure, as determined by Method 204 of Appendix M of 40 CFR 51, incorporated by reference in Section 219.112 of this Part and in which "FB" and "G" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

$$CE = (L - FW) / L$$

where:

CE = capture efficiency, decimal fraction; ~~L-G~~ = mass of ~~liquid VOM~~ ~~input to~~ ~~process emission unit~~; ~~FW~~ = mass of uncaptured VOM that escapes from ~~a TTE~~ ~~building enclosure~~.

Method 204~~AB~~ or 204~~FC~~ contained in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain ~~L~~G. Method 204~~E~~ in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain ~~FW~~FB.

~~CD) GasLiquid/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line or other emission unit is located, as the enclosure as determined by Method 204 of Appendix M of 40 CFR Part-51, incorporated by reference in Section 219.112 of this Part and in which "FB" and "GL" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:~~

$$CE = G / (G + FB)$$

where:

CE = capture efficiency, decimal fraction;

~~G~~ = mass of ~~VOM captured and delivered to control device~~;

~~FB~~ = mass of ~~uncaptured VOM that escapes from building enclosure~~.

~~Method 204B or 204C contained in Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part is used to obtain G. Method 204E in~~

~~Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part is used to obtain FB.~~

~~D) Liquid/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line or other emission unit is located, as the enclosure as determined by Method 204 of Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part and in which "FB" and "L" are measured while operating only the affected line emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:~~

$$CE = (L - FB)/L$$

~~where:~~

~~CE = capture efficiency, decimal fraction; L = mass of liquid VOM input to process emission unit; FB = mass of uncaptured VOM that escapes from building enclosure.~~

~~Method 204A or 204F contained in Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part is used to obtain L. Method 204E in Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part is used to obtain FB.~~

E) Mass balance using Data Quality Objective (DQO) or Lower Confidence Limit (LCL) protocol. For a liquid/gas input where an owner or operator is using the DQO/LCL protocol and not using an enclosure as described in Method 204 of Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part, the VOM content of the liquid input (L) must be determined using Method 204A or 204F in Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part. The VOM content of the captured gas stream (G) to the control device must be determined using Method 204B or 204C in Appendix M of 40 CFR Part 51, incorporated by reference in Section 219.112 of this Part. The results of capture efficiency calculations (G/L) must satisfy the DQO or LCL statistical analysis methodology as described in Section 3 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 219.112 of this Part. Where capture efficiency testing is done to determine emission reductions for the purpose of establishing emission credits for offsets, shutdowns, and trading, the LCL protocol cannot be used for these applications. In enforcement cases, the LCL protocol cannot confirm non-compliance; capture efficiency must be determined using a protocol under subsection (c)(2)(A), (B), (C) or (D) of this Section, the DQO protocol of this subsection (c)(2)(E), or an alternative protocol pursuant to Section 219.108(b) of this Part.

BOARD NOTE: Where LCL was used in testing emission units that are the subject of later requests for establishing emission credits for offsets, shutdowns, and trading, prior LCL results may not be relied upon to determine the appropriate amount of credits. Instead, to establish the appropriate amount of credits, additional testing may be required that would satisfy the protocol of Section 219.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section 219.105(c)(2)(E), or an alternative protocol pursuant to Section 219.108(b) of this Part.

3) Simultaneous testing of multiple lines or emission units with a common control device. If an owner or operator has multiple lines sharing a common

control device, the capture efficiency of the lines may be tested simultaneously, subject to the following provisions:

- A) Multiple line testing must meet the criteria of Section 4 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Section 219.112 of this Part;
- B) The most stringent capture efficiency required for any individual line or unit must be met by the aggregate of lines or units; and
- C) Testing of all the lines of emission units must be performed with the same capture efficiency test protocol.

4) Recordkeeping and Reporting

A) All owners or operators affected by this subsection must maintain a copy of the capture efficiency protocol submitted to the Agency and the USEPA on file. All results of the appropriate test methods and capture efficiency protocols must be reported to the Agency within ~~sixty~~-(60) days ~~of~~after the test date. A copy of the results must be kept on file with the source for a period of ~~three~~-(3) years.

B) If any changes are made to capture or control equipment, then the source is required to notify the Agency and the USEPA of these changes and a new test may be required by the Agency or the USEPA.

C) The source must notify the Agency 30 days prior to performing any capture efficiency or control test. At that time, the source must notify the Agency which capture efficiency protocol and control device test methods will be used. Notification of the actual date and expected time of testing must be submitted a minimum of 5 working days prior to the actual date of the test. The Agency may at its discretion accept notification with shorter advance notice provided that such arrangements do not interfere with the Agency's ability to review the protocol and/or observe testing.

D) Sources utilizing a PTE must demonstrate that this enclosure meets the requirement given in Method 204 in Appendix M of 40 CFR ~~Part~~-51, incorporated by reference in Section 219.112 of this Part, for a PTE during any testing of their control device.

E) Sources utilizing a TTE must demonstrate that their TTE meets the requirements given in Method 204 in Appendix M or 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part, for a TTE during any testing of their control device. The source must also provide documentation that the quality assurance criteria for a TTE have been achieved.

F) Any source utilizing the DQO or LCL protocol must submit the following information to the Agency with each test report:

i) A copy of all test methods, Quality Assurance/Quality Control procedures, and calibration procedures to be used from those described in Appendix M of 40 CFR ~~Part~~-51, incorporated by reference in Section 219.112 of this Part;

ii) A table with information on each sample taken, including the sample identification and the VOM content of the sample;

iii) The quantity of material used for each test run;

- iv) The quantity of captured VOM for each test run;
 - v) The capture efficiency calculations and results for each test run;
 - vi) The DQO and/or LCL calculations and results; and
 - vii) The Quality Assurance/Quality Control results, including how often the instruments were calibrated, the calibration results, and the calibration gases used.
- d) Control Device Efficiency Testing and Monitoring
- 1) The control device efficiency shall be determined by simultaneously measuring the inlet and outlet gas phase VOM concentrations and gas volumetric flow rates in accordance with the gas phase test methods specified in subsection (f) of this Section.
 - 2) An owner or operator:
 - A) That uses an afterburner or carbon adsorber to comply with any Section of Part 219 shall use Agency and USEPA approved continuous monitoring equipment which is installed, calibrated, maintained, and operated according to vendor specifications at all times the control device is in use except as provided in subsection (d)(3) of this Section. The continuous monitoring equipment must monitor the following parameters:
 - i) For each afterburner which does not have a catalyst bed, the combustion chamber temperature of each afterburner.
 - ii) For each afterburner which has a catalyst bed, commonly known as a catalytic afterburner, the temperature rise across each catalytic afterburner bed or VOM concentration of exhaust.
 - iii) For each carbon adsorber, the VOM concentration of each carbon adsorption bed exhaust or the exhaust of the bed next in sequence to be desorbed.
 - B) Must install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring device, such as a strip chart, recorder or computer, having an accuracy of ± 1 percent of the temperature measured, expressed in degrees Celsius or ± 0.5 ~~°C~~ °C, whichever is greater.
 - C) Of an automobile or light-duty truck primer surfacer operation or topcoat operation subject to subsection (d)(2)(A) ~~above~~, shall keep a separate record of the following data for the control devices, unless alternative provisions are set forth in a permit pursuant to Title V of the Clean Air Act:
 - i) For thermal afterburners for which combustion chamber temperature is monitored, all 3-hour periods of operation in which the average combustion temperature was more than 28° C (50° F) below the average combustion temperature measured during the most recent performance test that demonstrated that the operation was in compliance.
 - ii) For catalytic afterburners for which temperature rise is monitored, all 3-hour periods of operation in which the average gas temperature before the catalyst bed is more than 28° C (50° F) below the average gas temperature

immediately before the catalyst bed measured during the most recent performance test that demonstrated that the operation was in compliance.

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

3) An owner or operator that uses a carbon adsorber to comply with Section 219.401 of this Part may operate the adsorber during periods of monitoring equipment malfunction, provided that:

A) The owner or operator notifies in writing the Agency and USEPA, within 10 days after the conclusion of any 72 hour period during which the adsorber is operated and the associated monitoring equipment is not operational, of such monitoring equipment failure and provides the duration of the malfunction, a description of the repairs made to the equipment, and the total to date of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational;

B) During such period of malfunction the adsorber is operated using timed sequences as the basis for periodic regeneration of the adsorber;

C) The period of such adsorber operation does not exceed 360 hours in any calendar year without the approval of the Agency and USEPA; and

D) The total of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational shall be reported, in writing, to the Agency and USEPA by January 31~~st~~ of the following calendar year.

e) Overall Efficiency

1) The overall efficiency of the emission control system shall be determined as the product of the capture system efficiency and the control device efficiency or by the liquid/liquid test protocol as specified in 40 CFR 60.433, incorporated by reference in Section 219.112 of this Part, (and revised by subsection (c)(1)(B) of this Section) for each solvent recovery system. In those cases in which the overall efficiency is being determined for an entire line, the capture efficiency used to calculate the product of the capture and control efficiency is the total capture efficiency over the entire line.

2) For coating lines which are both chosen by the owner or operator to comply with Section 219.207(a), (d), (e), (f), or (g) of this Part by the alternative in Section 219.207(b)(2) of this Part and meet the criteria allowing them to comply with Section 219.207 instead of Section 219.204 of this Part, the overall efficiency of the capture system and control device, as determined by the test methods and procedures specified in subsections (c), (d) and (e)(1) of this Section, shall be no less than the equivalent overall efficiency which shall be calculated by the following equation:

$$E = \left(\frac{VOMa - VOMl}{VOMa} \right) \times 100$$

where:

E = Equivalent overall efficiency of the capture system and control device as a percentage; VOM_a = Actual VOM content of a coating, or the daily-weighted average VOM content of two or more coatings (if more than one coating is used), as applied to the subject coating line as determined by the applicable test methods and procedures specified in subsection (a)(4)(i) of this Part in units of kg VOM/1 (~~lb~~ VOM/gal) of coating solids as applied; ~~VOM₁-VOM₁~~ = The VOM emission limit specified in Sections 219.204 or 219.205 of this Part in units of kg VOM/1 (~~lb~~ VOM/gal) of coating solids as applied.

f) Volatile Organic Material Gas Phase Source Test Methods
The methods in 40 CFR ~~Part~~-60, Appendix A, incorporated by reference in Section 219.112 of this Part delineated below shall be used to determine control device efficiencies.

1) 40 CFR ~~Part~~ 60, Appendix A, Method 18, 25 or 25A, incorporated by reference in Section 219.112 of this Part as appropriate to the conditions at the site, shall be used to determine VOM concentration. Method selection shall be based on consideration of the diversity of organic species present and their total concentration and on consideration of the potential presence of interfering gases. Except as indicated in subsections (f)(1)(A) and (B) below, the test shall consist of three separate runs, each lasting a minimum of 60 min, unless the Agency and the USEPA determine that process variables dictate shorter sampling times.

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

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

2) 40 CFR ~~Part~~ 60, Appendix A, Method 1 or 1A, incorporated by reference in Section 219.112 of this Part, shall be used for sample and velocity traverses.

3) 40 CFR ~~Part~~ 60, Appendix A, Method 2, 2A, 2C or 2D, incorporated by reference in Section 219.112 of this Part, shall be used for velocity and volumetric flow rates.

4) 40 CFR ~~Part~~-60, Appendix A, Method 3, incorporated by reference in Section 219.112 of this Part, shall be used for gas analysis.

5) 40 CFR ~~Part~~-60, Appendix A, Method 4, incorporated by reference in Section 219.112 of this Part, shall be used for stack gas moisture.

6) 40 CFR ~~Part~~-60, Appendix A, Methods 2, 2A, 2C, 2D, 3 and 4, incorporated by reference in Section 219.112 of this Part, shall be performed, as applicable, at least twice during each test run.

7) Use of an adaptation to any of the test methods specified in subsections (f)(1), (2), (3), (4), (5) and (6) of this Section may not be used unless approved by the Agency and the USEPA on a case by case basis. An owner or operator must submit sufficient documentation for the Agency and the USEPA to find that the test methods specified in subsections (f)(1), (2), (3), (4), (5) and (6) of this Section will yield inaccurate results and that the proposed adaptation is appropriate.

g) Leak Detection Methods for Volatile Organic Material
Owners or operators required by this Part to carry out a leak detection monitoring program shall comply with the following requirements:

1) Leak Detection Monitoring

A) Monitoring shall comply with 40 CFR 60, Appendix A, Method 21, incorporated by reference in Section 219.112 of this Part.

B) The detection instrument shall meet the performance criteria of Method 21.

C) The instrument shall be calibrated before use on each day of its use by the methods specified in Method 21.

D) Calibration gases shall be:

i) Zero air (less than 10 ppm of hydrocarbon in air); and

ii) A mixture of methane or n-hexane and air at a concentration of approximately, but no less than, 10,000 ppm methane or n-hexane.

E) The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.

2) When equipment is tested for compliance with no detectable emissions as required, the test shall comply with the following requirements:

A) The requirements of subsections (g)(1)(A) through (g)(1)(E) of this Section ~~above~~ shall apply.

B) The background level shall be determined as set forth in Method 21.

3) Leak detection tests shall be performed consistent with:

A) "APTI Course SI 417 controlling Volatile Organic Compound Emissions from Leaking Process Equipment", EPA-450/2-82-015, incorporated by reference in Section 219.112 of this Part.

B) "Portable Instrument User's Manual for Monitoring VOM Sources", EPA-340/1-86-015, incorporated by reference in Section 219.112 of this Part.

C) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOM and VHAP", EPA-450/3-88-010, incorporated by reference in Section 219.112 of this Part.

D) "Petroleum Refinery Enforcement Manual", EPA-340/1-80-008, incorporated by reference in Section 219.112 of this Part.

h) Bulk Gasoline Delivery System Test Protocol

1) The method for determining the emissions of gasoline from a vapor recovery system are delineated in 40 CFR 60, Subpart XX, Section 60.503, incorporated by reference in Section 219.112 of this Part.

2) Other tests shall be performed consistent with:

A) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D", EPA-340/1-80-012, incorporated by reference in Section 219.112 of this Part.

B) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A", EPA-450/2-77-026, incorporated by reference in Section 219.112 of this Part.

i) Notwithstanding other requirements of this Part, upon request of the Agency where it is necessary to demonstrate compliance, an owner or operator of an emission unit which is subject to this Part shall, at his own expense, conduct tests in accordance with the applicable test methods and procedures specific in this Part. Nothing in this Section shall limit the authority of the USEPA pursuant to the Clean Air Act, as amended, to require testing.

j) Stage II Gasoline Vapor Recovery Test Methods

The methods for determining the acceptable performance of Stage II Gasoline Vapor Recovery System are delineated in "Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities," found at EPA 450/3-91-022b and incorporated by reference in Section 219.112 of this Part. Specifically, the test methods are as follows:

1) Dynamic Backpressure Test is a test procedure used to determine the pressure drop (flow resistance) through balance vapor collection and control systems (including nozzles, vapor hoses, swivels, dispenser piping and underground piping) at prescribed flow rates.

2) Pressure Decay/Leak Test is a test procedure used to quantify the vapor tightness of a vapor collection and control system installed at gasoline dispensing facilities.

3) Liquid Blockage Test is a test procedure used to detect low points in any vapor collection and control system where condensate may accumulate.

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

Section 219.106 Compliance Dates

a) Except as provided in subsections (b) and (c) ~~below~~, compliance with the requirements of this Part is required by May 15, 1992, consistent with the provisions of Section 219.103 of this Part.

b) As this Part is amended from time to time, compliance dates included in the specific Subparts supersede the requirements of this Section except as limited by Section 219.101(b) of this Subpart.

c) Any owner or operator of a source subject to the requirements of Section 219.204(a)(2) or 219.204(q) of this Part shall comply with the applicable requirements in ~~such Section(s)~~ those Sections, as well as all applicable requirements in Sections 219.205 through 219.214 and 219.219, by May 1, 2011.

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

Section 219.112 Incorporations by Reference

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

a) American Society for Testing and Materials, ~~1916 Race Street,~~
~~Philadelphia, PA 19103~~, 100 Barr Harbor Drive, West Conshohocken PA 19428-9555

- 1) ASTM D 2879-86
- 2) ASTM D 323-82
- 3) ASTM D 86-82
- 4) ASTM D 369-69 (1971)
- 5) ASTM D 396-69
- 6) ASTM D 2880-71
- 7) ASTM D 975-68
- 8) ASTM D 3925-81 (1985)
- 9) ASTM E 300-86
- 10) ASTM D 1475-85
- 11) ASTM D 2369-87
- 12) ASTM D 3792-86
- 13) ASTM D 4017-81 (1987)
- 14) ASTM D 4457-85
- 15) ASTM D 2697-86
- 16) ASTM D 3980-87
- 17) ASTM E 180-85
- 18) ASTM D 2372-85
- 19) ASTM D 97-66
- 20) ASTM E 168-87 (1977)
- 21) ASTM E 169-87
- 22) ASTM E 260-91
- 23) ASTM D 2504-83

24) ASTM D 2382-83

25) ASTM D 323-82 (approved 1982)

b) Standard Industrial Classification Manual, published by Executive Office of the President, Office of Management and Budget, Washington, D.C., 1987.

c) American Petroleum Institute Bulletin 2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980.

d) 40 CFR ~~Part~~-60 (July 1, 1991).

e) 40 CFR ~~Part~~-61 (July 1, 1991).

f) 40 CFR ~~Part~~-50 (July 1, 1991).

g) 40 CFR ~~Part~~-51 (July 1, 1991) and 40 CFR ~~Part~~-~~51~~51, Appendix M, Methods 204-204F (July 1, 1999).

h) 40 CFR ~~Part~~-52 (July 1, 1991).

i) 40 CFR ~~Part~~-80 (July 1, 1991) and 40 CFR ~~Part~~-~~80~~80, Appendixes D, E, and F (July 1, 1993).

j) "A Guide for Surface Coating Calculation", July 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016.

k) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink and Other Coating", (revised June 1986), United States Environmental Protection Agency, Washington D.C., EPA-450/3-84-019.

l) "A Guide for Graphic Arts Calculations", August 1988, United States Environmental Protection Agency, Washington D.C., EPA-340/1-88-003.

m) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations", December 1988, United States Environmental Protection Agency, Washington D.C., EPA-450/3-88-018.

n) "Control of Volatile Organic Emissions from Manufacturing of Synthesized Pharmaceutical Products", December 1978, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-029.

o) "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems", December 1978, Appendix B, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-78-051.

p) "Control of Volatile Organic Compound Emissions from Large Petroleum Dry Cleaners", September 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-82-009.

q) "APTI Course SI417 Controlling Volatile Organic Compound Emissions from Leaking Process Equipment", 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-82-015.

r) "Portable Instrument User's Manual for Monitoring VOM Sources", June 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-015.

s) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOM and VHAP", October 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-010.

t) "Petroleum Refinery Enforcement Manual", March 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-008.

u) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D", 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-012.

v) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A", December 1977, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-77-026.

w) "Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities", November 1991, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-91-022b.

x) California Air Resources Board, Compliance Division. Compliance Assistance Program: Gasoline Marketing and Distribution: Gasoline Facilities Phase I & II (October 1988, rev. November 1993) (CARB Manual).

y) "Guidelines for Determining Capture Efficiency", January 1995, Office of Air Quality Planning and Standards, United States Environmental Protection Agency, Research Triangle Park, NC.

z) Memorandum "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions", February, 1995, John S. Seitz, Director, Office of Air Quality Planning and Standards, United States Environmental Protection Agency.

aa) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations", September 2008, United States Environmental Protection Agency, Washington, D.C., EPA-453/R-08-002.

bb) 40 CFR ~~63~~63 Subpart PPPP, Appendix A (2008).

cc) 46 CFR Subchapter Q (2007).

dd) 46 CFR Subchapter T (2008).

(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(a), (j), (l), (n), and (q), 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	1)	Prior to May
1, 2011:	A ±) Prime coat	0.14	(1.2)
	0.14*	(1.2)*	B 2)
Primer surface coat	1.81	(15.1)	
	1.81*	(15.1)*	

~~(Note~~BOARD NOTE: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire primer surface operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b) (1) (A) 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.

C) Topcoat kg/llb/gal 1.81 (15.1) 1.81* (15.1)*

BOARD NOTE: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b) (1) (A) 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 does not apply to the primer surface limitation.)

~~kg/llb/gal C~~3~~) Topcoat 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 219.105(b) (1) (A) 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/lb/gal~~ ~~D4)~~ D) Final repair coat ~~coat~~ ~~kg/lb/gal~~ 0.58
(4.8) 0.58* (4.8)*

2) On and after May 1, 2011, subject automobile and light-duty truck coating lines shall comply with the following limitations. ~~Such~~ These limitations shall not apply to materials supplied in containers with a net volume of 0.47 liters (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less:

A) Electrodeposition primer (EDP) operations. For purposes of this subsection (a)(2)(A), "electrodeposition" means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created.

kg VOM/l coating solids applied lb VOM/gal
~~coating solids~~ ~~coating solids~~
~~applied~~ ~~applied~~ ~~applied~~ i) When solids turnover ratio (RT) is greater than or equal to ~~0.160~~ ~~0.084~~ ~~0.160~~ ~~0.084~~ (0.7)
ii) When RT is greater than or equal to 0.040 and ~~less than 0.160~~
~~0.084 x~~ ~~(0.084 x 3500.160-RT)~~ ~~less than 0.160~~
~~0.160.084 x~~
3500.160-RT ~~x~~ ~~(0.084 x 3500.160-RT)~~
~~x~~ 8.34)

~~operations~~ ~~kg VOM/l~~ ~~lb operations~~ ~~kg VOM/l~~
coating solids deposited lb VOM/gal ~~coating solids deposited~~ ~~deposited~~ i)
VOM content ~~1.44~~ ~~(12.0)~~
limitation: ~~1.44~~ ~~(12.0)~~

ii) Compliance with the limitation set forth in subsection (a)(2)(B)(i) 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 219.105(b)(1)(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 surfacer limitation. C) Topcoat

~~operations~~ ~~kg VOM/l~~ ~~lb operations~~ ~~kg VOM/l~~ coating solids deposited lb VOM/gal ~~coating solids deposited~~ ~~deposited~~ i) ~~deposited~~ VOM content ~~1.44~~ ~~(12.0)~~
limitation: ~~1.44~~ ~~(12.0)~~

ii) Compliance with the limitation set forth in subsection (a)(2)(C)(i) 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)(1)(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 topcoat limitation. D) Combined

~~primer surfacer and topcoat operations~~ ~~kg VOM/l~~ ~~lb operations~~ ~~kg VOM/l~~ coating solids deposited lb VOM/gal ~~coating solids deposited~~ ~~deposited~~ i) ~~deposited~~ VOM content ~~1.44~~ ~~(12.0)~~
limitation: ~~1.44~~ ~~(12.0)~~

~~limitation~~ ii) Compliance with the limitation set forth in subsection (a) (2) (D) (i) shall be based on the daily-weighted average from the combined primer- surfacer and topcoat operations. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b) (1) (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 combined primer- surfacer and topcoat limitation. E) Final repair coat ~~operations~~

~~kg/l- lb/gal~~
~~coatings coatings~~ ~~i)~~
operations kg/l coatings lb/gal coatings i) VOM content limitation: 0.58

(4.8) ii) Compliance with the final repair operations limitation set forth in subsection (a) (2) (E) (i) shall be on an occurrence-weighted average basis, calculated in accordance with the equation below, in which clear coatings shall have a weighting factor of 2 and all other coatings shall have a weighting factor of 1.

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

Where:

where:

VOM_{tot} = Total VOM content of all coatings, as applied, on an occurrence weighted average basis, and used to determine compliance with this subsection (a) (2) (E). i = Subscript denoting a specific coating applied. n = Total number of coatings applied in the final repair operation, other than clear coatings. VOM_{cc} = The VOM content, as applied, of the clear coat used in the final repair operation. VOM_i = The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

F) Miscellaneous Materials. For reactive adhesives subject to this subsection (a) (2) (F), compliance shall be demonstrated in accordance with the methods and procedures set forth in Appendix A to Subpart PPPP of 40 CFR 63, incorporated by reference in Section 219.112 of this Part.

	kg/l	lb/gal		kg/l	lb/gal
i) <u>kg/llb/gal</u> Glass bonding primer				0.90	(7.51)
ii) Adhesive	0.25	(2.09)	iii) Cavity wax		
	0.65	(5.42)	iv) Trunk sealer		0.65
			v) Deadener	0.65	(5.42)
Gasket/gasket sealing <u>material</u>	0.20	(1.67)	vi) Underbody coating	0.65	(5.42)
material vii) Underbody coating			viii) Trunk interior coating	0.65	(5.42)
	0.20	(1.67)	ix) Bedliner		
	(6.26)		x) Weatherstrip adhesive	0.75	
			xi) Lubricating wax/compound	0.70	(5.84)
b) Can Coating <u>kg/llb/gal</u> Sheet basecoat and over <u>over</u> varnish <u>varnish</u> Sheet basecoat	0.34	(2.8)	0.26*(2.2)*B) Overvarnish	0.34	(2.8)
	0.34	(2.8)	0.25*(2.1)*3) Interior body spray coat <u>coat</u> <u>coat</u>	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)
	0.44*(3.7)*		0.66*(5.5)*6) End sealing compound coat	0.44	(3.7)
<u>kg/llb/gal</u> c) Paper <u>Coating</u> <u>Coating</u> <u>kg/llb/gal</u>	0.35	(2.9)	0.28*(2.3)*		

~~(Note~~BOARD 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.†

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

e)Fabric Coating0.35 (2.9)0.28*(2.3)*

f)Vinyl Coating0.45 (3.8)0.28*(2.3)*

g)Metal Furniture Coating1)Air dried

0.36(3.0)0.34*(2.8)*2)Baked0.36(3.0)0.28*(2.3)*

h)Large Appliance Coating1)Air

dried0.34(2.8)0.34*(2.8)*2)Baked0.34(2.8)0.28*(2.3)*

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

kg/llb/gal*i*)Magnet Wire Coating0.20(1.7)0.20*(1.7)*

j)Prior to May 1, 2011: Miscellaneous Metal Parts and Products Coating1)Clear

coating0.52(4.3)0.52*(4.3)*2)Extreme performance ~~coating~~CoatingAAir

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 ~~coatings~~CoatingsAAir

~~Dried~~dried0.42(3.5)0.40*(3.3)*B)Baked0.36(3.0)0.34*(2.8)*5)Metallic

~~CoatingA~~CoatingAAir

~~Dried~~dried0.42(3.5)0.42*(3.5)*B)Baked0.36(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.

~~(Note~~BOARD NOTE: On and after May 1, 2011, the limitations in Section 219.204(q) shall apply to this category of coating.†

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/~~gal~~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~~BOARD NOTE: Prior to March 15, 1998, an owner or operator of a wood furniture coating operation subject to this Section shall apply all coatings, with the exception of no more than 37.8 ~~±~~1 (10 gal) of coating per day used for touch-up and repair operations, using one or more of the following application systems: airless spray application system, air-assisted airless spray application system, electrostatic spray application system, electrostatic bell or disc spray application system, heated airless spray application system, roller coating, brush or wipe coating application system, dip coating application system or high volume low pressure (HVLP) application system.†

2) On and after March 15, 1998, wood furniture sealers and topcoats must comply with one of the limitations specified in subsections (~~±~~1) (2) (A) through (E) ~~below~~:kg VOM/kg solidslb VOM/lb solidsA)Topcoat0.8(0.8)B)Sealers and topcoats with the following limits:i)Sealer other than acid-cured alkyd amino vinyl sealer1.9(1.9)ii)Topcoat other than acid-cured alkyd amino conversion varnish topcoat1.8(1.8)iii)Acid-cured alkyd amino vinyl sealer2.3(2.3)iv)Acid-cured alkyd amino conversion varnish topcoat2.0(2.0)C) Meet the provisions

of Section 219.215 of this Subpart for use of an averaging approach;D) Achieve a reduction in emissions equivalent to the requirements of Section 219.204(1)(2)(A) or (B) of this Subpart, as calculated using Section 219.216 of this Subpart; ~~or For 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/galA)Opaque stain0.56(4.7)B)Non-topcoat pigmented coat0.60(5.0)C)Repair coat0.67(5.6)D)Semi-transparent stain0.79(6.6)E)Wash coat0.73(6.1)4) Other wood furniture coating requirements on and after March 15, 1998:A) No source subject to the limitations of subsection (1)(2) or (3) of this Section and utilizing one or more wood furniture coating spray booths shall use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.B) Any source subject to the limitations of subsection (1)(2) or (3) of this Section shall comply with the requirements of Section 219.217 of this Subpart.C) Any source subject to the limitations of subsection (~~1e1~~) (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; ~~andiiiandiii~~) Maintain these records at the source for a period of three years.

m) Prior to May 1, 2011: Plastic Parts Coating:

Automotive/~~Transportation~~kg/llb/gal

1) Interiors

A) ~~Baked~~~~Transportation~~1) Interiorskg/llb/galA) ~~Baked~~) Color

coat0.49*(4.1)*ii) Primer0.46*(3.8)*B) Air ~~Dried~~~~Dried~~) Color

coat0.38*(3.2)*ii) Primer0.42*(3.5)*2) Exteriors (flexible and non-

flexible)A) ~~Baked~~~~Baked~~) Primer0.60*(5.0)*ii) Primer non-

flexible0.54*(4.5)*iii) Clear coat0.52*(4.3)*iv) Color coat0.55*(4.6)*B) Air

~~Dried~~~~Dried~~) Primer0.66*(5.5)*ii) Clear coat0.54*(4.5)*iii) Color coat (red &

black)0.67*(5.6)*iv) Color coat (others)0.61*(5.1)*3) ~~Specialty~~~~Specialty~~) Vacuum

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 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)*

~~(Note~~~~BOARD NOTE~~: On and after May 1, 2011, the limitations in Section

219.204(q) shall apply to this category of coating.†

n) Prior to May 1, 2011: Plastic Parts ~~kg/l~~ ~~lb/gal~~
Coating: Business ~~Machine~~~~Machine~~kg/llb/gal1) 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 ~~Coatings~~~~Coatings~~) Soft coat0.52*(4.3)*B) Plating
resist0.71*(5.9)*C) Plating sensitizer0.85*(7.1)*

~~(Note~~~~BOARD NOTE~~: On and after May 1, 2011, the limitations in Section

219.204(q) shall apply to this category of coating.†

q) Miscellaneous Metal Parts and Products Coatings and Plastic Parts and
Products Coatings On and After May 1, 2011. On and after May 1, 2011, the owner
or operator of a miscellaneous metal or plastic parts coating line shall comply

with the limitations ~~below~~ in this subsection (q). The limitations in this subsection (q) shall not apply to aerosol coating products or powder coatings.

1) Metal Parts and Products. For purposes of this subsection (q)(1), "corrosion resistant basecoat" means a water-borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance. Also for purposes of subsection (q)(1), "marine engine coating" means any extreme performance protective, decorative, or functional coating applied to an engine that is used to propel watercraft. The limitations in subsection (q)(1) shall not apply to stencil coats, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating. The limitations in Section 219.219, however, shall apply to ~~such~~ these coatings unless specifically excluded in Section 219.219.

kg/l	(lb/gal)	kg/l	(lb/gal)
coatings	kg VOM/l	coating solids	A) applied
coating solids applied	kg VOM/l	coating solids	lb VOM/gal
±coatingi	Air Dried:—	0.34	0.54
dried0.340.54	(2.8)	(4.52) ii) Baked:—	0.28
0.40	0.280.40	(2.3)	(3.35)
±coatingi	B) General multi-component	coating	0.34
dried0.340.54	(2.8)	(4.52) ii) Baked:—	0.54
0.40	0.280.40	(2.3)	0.28
(3.35)C) Camouflage coating+	0.42	0.80	0.80
0.420.80	(3.5)	(6.67)	0.80
D) Electric-insulating varnish:—	0.42	0.80	0.80
0.420.80	(3.5)	(6.67)	0.80
E) Etching filler:—	0.42	0.80	0.80
0.420.80	(3.5)	(6.67)	0.80
±coatingi	Air Dried:—	0.42	0.80
dried0.420.80	(3.5)	(6.67) ii) Baked:—	0.36
0.61	0.360.61	(3.0)	(5.06)
G) Extreme performance	coating±coatingi	Air Dried:—	0.42
(6.67) ii) Baked:—	0.80	dried0.420.80	(3.5)
0.360.61	(3.0)	(5.06)	0.61
coating±coatingi	Air Dried:—	0.42	0.80
dried0.420.80	(3.5)	(6.67) ii) Baked:—	0.36
0.61	0.360.61	(3.0)	(5.06)
I) High performance architectural	0.74	(38.0)J) High	0.42
4.560.744.56	coating+	(6.2)	0.80
temperature coating+	0.42	0.80	0.420.80
(6.67) K) Metallic	coating±coatingi	Air Dried:—	(3.5)
0.42	0.80	dried0.420.80	(3.5)
Baked:—	0.36	0.61	(6.67) ii)
0.360.61	(3.0)	(5.06)	0.61
coating	L) Military specification	0.34	0.54
±coatingi	Air Dried:—	0.34	0.54
dried0.340.54	(2.8)	(4.52) ii) Baked:—	0.28
0.40	0.280.40	(2.3)	0.28
(3.35)M) Mold-seal coating+	0.42	0.80	0.80

0.420.80(3.5) (6.67) N) Pan backing coating+
~~0.42~~ ~~0.80~~ 0.420.80(3.5) (6.67)
 O) Prefabricated architectural coating: multi-
 component
~~i-component i)~~ Air Dried:— ~~0.42~~ ~~0.80~~
dried0.420.80(3.5) (6.67) ii) Baked:— ~~0.28~~
~~0.40~~ 0.280.40(2.3) (3.35)
 P) Prefabricated architectural coating:
 one-component ~~i-component i)~~ Air Dried:— ~~0.42~~
~~0.80~~ dried0.420.80(3.5) (6.67) ii) Baked:—
~~0.28~~ ~~0.40~~ 0.280.40(2.3)
 (3.35) Q) Pretreatment coating:— ~~0.42~~ ~~0.80~~
0.420.80(3.5) (6.67) R) Repair coats and
 touch-up coatings—
~~i) coatings i)~~ Air Dried:— dried0.42 (3.5) ii)
 Baked:— 0.36 ~~(3.01)~~ ~~(3.01)~~ S) Silicone release coating+
~~0.42~~ ~~0.80~~ 0.420.80(3.5) (6.67)
 T) Solar-absorbent coating ~~i-coating i)~~ Air Dried:—
~~0.42~~ ~~0.80~~ dried0.420.80(3.5) (6.67)
 ii) Baked:— ~~0.36~~ ~~0.61~~
0.360.61(3.0) (5.06) U) Vacuum-metalizing coating+
~~0.42~~ ~~0.80~~ 0.420.80(3.5) (6.67)
 V) Drum coating, new, exterior:— ~~0.34~~ ~~0.54~~
0.340.54(2.8) (4.52) W) Drum coating, new, interior:—
~~0.42~~ ~~0.80~~ 0.420.80(3.5) (6.67)
 X) Drum coating, reconditioned, ~~0.42~~ ~~0.80~~ exterior:— 0.42
 (3.5) 0.80
 (6.67) Y) Drum coating, reconditioned, ~~0.50~~ ~~1.17~~ interior:—
0.50
 (4.2) 1.17
 (9.78)
 Z) Steel pail and drum interior ~~0.52~~
~~1.24~~ coating:— 0.521.24(4.3) (10.34) AA)
 Marine engine coating ~~i-coating i)~~ Air Dried:— ~~0.42~~
~~0.80~~ dried0.420.80(3.5) (6.67) ii) Baked:
 primer/topcoat ~~0.42~~ ~~0.80~~
0.420.80(3.5) (6.67) iii) Baked: corrosion
 resistant ~~0.28~~ ~~0.40~~ basecoat 0.28
 (2.3) 0.40
 (3.35) iv) Clear coating:— ~~0.52~~ ~~1.24~~ 0.521.24(4.3)
 (10.34) BB) All other coatings ~~i)~~
 Air Dried:— ~~0.40~~ ~~0.73~~ coatings i) Air
dried0.400.73(3.3) (5.98) ii) Baked: ~~0.34~~
~~0.54~~ primer/topcoat0.340.54(2.8) (4.52)

2) Plastic Parts and Products: Miscellaneous. For purposes of this subsection (q) (2), miscellaneous plastic parts and products are plastic parts and products that are not subject to ~~subsections~~ subsection (q) (3), (q) (4), (q) (5), or (q) (6) of this Section. The limitations in subsection (q) (2) shall not apply to touch-up and repair coatings; stencil coats applied on clear or transparent substrates; clear or translucent coatings; coatings applied at a paint manufacturing facility while conducting performance tests on the coatings; any individual coating category used in volumes less than 189.2 liters (50 gallons) in any one calendar year, if the total usage of all such coatings does not exceed 756.9 liters (200 gallons) per calendar year per source and substitute compliant coatings are not available; reflective coatings applied to highway cones; mask coatings that are less than 0.5 mm thick (dried) if the area coated is less than 25 square inches; electromagnetic interference/radio

frequency interference (EMI/RFI) shielding coatings; and heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices if the total usage of all such coatings does not exceed 378.4 liters (100 gallons) per calendar year per source. The limitations in Section 219.219, however, shall apply to such coatings unless specifically excluded in Section 219.219.)

kg/l	kg/l		
<u>kg/l (lb/gal) coatings</u>	<u>kg/l</u>		
(lb/gal) -	(lb/gal)		
<u>solids</u>	<u>A)</u>	General one component	
coatings	solids		
0.28	0.40		
<u>0.280.40</u>		(3.35) B) General multi component	
0.42	0.80	<u>0.420.80</u>	(3.5) (6.67) C)
Electric dissipating coatings			
8.96	0.808.96	and shock-free coatings	(6.7) (74.7) D)
Extreme performance	0.42		
(2-pack coatings)	<u>0.42</u>		
(3.5) <u>0.80</u>			
(6.67) E) Metallic coating		0.42	0.80
<u>0.420.80</u>	(3.5)	(6.67) F) Military specification coating	
coating	1-pack coatings	0.28	0.54
<u>0.280.54</u>	(2.3)	(4.52) ii) 2-pack coatings	
0.42	0.80	<u>0.420.80</u>	(3.5) (6.67) G)
Mold-seal coating		0.76	5.24
<u>0.765.24</u>	(6.3)	(43.7) H) Multi-colored coating	
0.68	3.04	<u>0.683.04</u>	(5.7) (25.3)
I) Optical coating		0.80	8.96
<u>0.808.96</u>	(6.7)	(74.7) J) Vacuum-metalizing coating	
0.80	8.96	<u>0.808.96</u>	(6.7) (74.7)
3) Plastic Parts and Products			
Automotive/Transportation			

kg/l	kg/l		
<u>kg/l (lb/gal) coatings</u>	<u>kg/l</u>		
(lb/gal) -	(lb/gal)		
<u>solids</u>	<u>A)</u>	High bake coatings - interior	and
coatings	solids		
exterior parts	parts	Flexible primer	0.54 1.39
<u>0.541.39</u>	(4.5)	(11.58) ii) Non-flexible primer	0.42
0.80	0.420.80	(3.5)	(6.67) iii) Base coats
0.52	1.24	<u>Basecoats</u>	<u>0.521.24</u>
(10.34) iv) Clear coat		0.48	1.05
<u>0.481.05</u>	(4.0)	(8.76) v) Non-	
basecoat/clear coat	0.52	1.24	<u>0.521.24</u>
(10.34)		B) Low bake/air dried coatings -	
exterior parts	parts	Primers	0.58 1.66
<u>0.581.66</u>	(4.8)	(13.80) ii) Basecoat	0.60
1.87	0.601.87	(5.0)	(15.59) iii) Clear coats
0.54	1.39	<u>0.541.39</u>	(4.5)
(11.58) iv) Non-basecoat/clear coat		0.60	1.87
<u>0.601.87</u>	(5.0)	(15.59) C) Low bake/air dried coatings - interior	
parts	parts	Color coat	0.38 0.67
<u>0.380.67</u>	(3.2)	(5.66) ii) Primer	0.42
0.80	0.420.80	(3.5)	(6.67) D) Touchup and repair
coatings	0.62	2.13	<u>0.622.13</u>
			(5.2) (17.72)

E) ~~Specialty~~Specialty Vacuum ~~metalizing~~metallizing basecoats, texture
~~0.66~~ 2.62 ~~2.62~~ basecoats: ~~0.66~~

(5.5) 2.62

(21.8)ii) Reflective argent coatings, air bag cover coatings, ~~0.71~~
~~3.64~~ and soft coatings: ~~0.71~~

(5.9) 3.64

(29.7)iii) Gloss reducers, vacuum ~~metalizing~~metallizing topcoats,
~~0.77~~ ~~6.06~~ and texture topcoats: ~~0.77~~

(6.4) 6.06

(49.1) iv) Stencil coats, adhesion primers, ink pad coatings,
electrostatic prep coats, ~~0.82~~ ~~(11.67)~~ and resist coats: ~~0.82~~

(6.8) (11.67)

(89.4) v) Head lamp lens coating: ~~0.89~~

(7.4)

F) Red, yellow, and black

coatings: Subject coating lines shall comply with a limit determined by
multiplying the appropriate limit in subsections (q)(3)(A) through (q)(3)(E) of
this Section by 1.15.

4) Plastic Parts and Products: Business Machine. The limitations of this
subsection (q)(4) shall not apply to vacuum ~~metalizing~~metallizing coatings,
gloss reducers, texture topcoats, adhesion primers, electrostatic preparation
coatings, stencil coats, and resist coats other than plating resist coats. The
limitations in Section 219.219, however, shall apply to such coatings unless
specifically excluded in Section 219.219.

~~kg/l~~

~~kg/l~~

kg/l (lb/gal) coatings

(lb/gal) -

~~(lb/gal)~~

solids

~~coatings~~

~~solids~~

A) Primers: ~~0.14~~

~~0.14~~

~~0.17~~

0.140.17 (1.2)

(1.4) B)

Topcoat: ~~0.35~~

~~0.35~~

~~0.57~~

0.350.57 (2.9)

(4.80) C)

Color coat

(texture coat) ~~0.40~~

~~0.28~~

~~0.40~~

0.280.40 (2.3)

(4.80)

D) Color coat (non-texture coat) ~~0.28~~

0.280.40 (2.3)

~~0.40~~

(4.80)

E) Texture coats other than color

~~0.35~~

~~0.57~~

texture coats: ~~0.35~~

(2.9) 0.57

(4.80)

F) EMI/RFI shielding

coatings: ~~0.48~~

~~1.05~~

0.481.05 (4.0)

(8.76) G)

Fog coat: ~~0.26~~

~~0.26~~

~~0.38~~

0.260.38 (2.2)

(3.14) H)

Touchup and repair: ~~0.52~~

~~0.35~~

~~0.57~~

0.350.57 (2.9)

(4.80) I) Specialty ~~coatings~~coatings)

Soft coat: ~~0.52~~

~~0.52~~

~~1.24~~

0.521.24 (4.3)

(10.34)

ii) Plating

resist: ~~0.71~~

~~0.71~~

~~3.64~~

0.713.64 (5.9)

(29.7)

iii) Plating sensitizer: ~~0.85~~

0.85

(23.4)

(7.1)

(201.0)

5) Pleasure Craft Surface Coatings

~~kg/l~~

~~kg/l~~

kg/l (lb/gal) coatings

(lb/gal) -

~~(lb/gal)~~

solids

coatings	solids		
A) Extreme high gloss coating		0.49	1.10
topcoat	0.491.10 (4.1)	(9.2) B) High gloss coating	
topcoat	0.42	0.80	0.420.80 (3.5)
(6.7) C) Pretreatment wash primer		0.78	6.67
surfacers	0.42	0.80	0.420.80 (3.5)
(6.7) E) High build primer/surfacer		0.34	0.55
substrate antifoulant	0.56	1.53	0.561.53 coating
(4.7) (12.8) G) Other substrate antifoulant			0.33
All other pleasure craft surface plastic	0.53 coating	0.42	0.80 coatings for metal or plastic
(3.5) (6.7)	0.42		

6) Motor Vehicle Materials

kg/l	(lb/gal)		
coatings	coatings	A) Cavity wax	0.65
		(5.42) B) Sealer	0.65
		(5.42) C) Deadener	0.65
		(5.42) D) Gasket/gasket sealing material	0.20
0.65		(1.67) E) Underbody coating	
		(5.42) F) Trunk interior coating	
0.65		(5.42) G) Bedliner	
0.20		(1.67) H) Lubricating wax/compound	
0.70			(5.84)

(Source: Amended at 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), (a)(1)(D) ~~(4)~~, (a)(2)(A), (a)(2)(E), (a)(2)(F), (c), (d), (e), (f), or (i) 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) Prior to May 1, 2011, ~~no~~ ~~no~~ owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 219.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

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

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

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

c) No owner or operator of a can coating line subject to the limitations of Section 219.204(b) of this Subpart shall operate the subject coating line using a coating with a VOM content in excess of the limitations specified in Section 219.204(b) of this Subpart unless all of the following requirements are met:

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

where:

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

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

where:

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

d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 219.204(k) of this Subpart shall apply

coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.

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

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

e) No owner or operator of a wood furniture coating line subject to the limitations of Section 219.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(1) or (e)(2) of this Section, in addition to the requirements specified in the note to Section 219.204(l)(1) of this Subpart, are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or

2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(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) Prior to May 1, 2011, ~~no~~ owner or operator of a plastic parts coating line subject to the limitations of Section 219.204(m) or (n) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.

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

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

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

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(g) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

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

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

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(h) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

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

i) On and after May 1, 2011, no owner or operator of a miscellaneous metal parts and products coating line, plastic parts or products coating line, pleasure craft surface coating line, or motor vehicle materials coating line subject to the limitations of Section 219.204(q) 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~~that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(q) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content 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(q) 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.

(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, except coating lines subject to Section 219.204(q)(6), may comply with this Section, rather than with Section 219.204 of this Subpart, if a capture system and control device are operated at all times the coating line is in operation and the owner or operator demonstrates compliance with subsection (c), (d), (e), (f), (g), (h), (i), ~~(j)~~, or (k) of this Section (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures specified in Section 219.105 of this Part and the recordkeeping and reporting requirements specified in Section 219.211(e) of this Subpart; and the control device is equipped with the applicable monitoring equipment specified in Section 219.105(d) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use. A capture system and control device, which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), (j), or (k) of this Section may be used as an alternative to compliance with Section 219.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.

b) Alternative Add-On Control Methodologies

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

2) The system used to control VOM from the coating line is demonstrated to have an overall efficiency sufficient to limit VOM emissions to no more than what is allowed under Section 219.204 of this Subpart. Use of any control system other than an afterburner, carbon adsorption, condensation, or absorption scrubber system can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. The use of transfer efficiency credits can be allowed only if approved by the Agency and approved by the USEPA as a SIP revision. Baseline transfer efficiencies and transfer efficiency test methods must be approved by the Agency and the USEPA. Such overall efficiency is to be determined as follows:

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

B) Unless complying with an emission limitation in Section 219.204 that is already expressed in terms of weight of VOM per volume of solids, ~~Calculate~~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. If the coating line is complying with an emission limitation in Section 219.204 of this Subpart

that is already expressed in terms of weight of VOM per volume of solids, VOM1 is equal to ~~such that~~ emission limitation.

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), (a)(1)(D)~~(4)~~, (a)(2)(A), (a)(2)(E), (a)(2)(F), (c), (d), (e), (f) or (i) of this Subpart and equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. No owner or operator of a coating line subject to Section 219.204(a)(1)(B)~~(2)~~, ~~or~~ (a)(1)(C)~~(3)~~, (a)(2)(B), (a)(2)(C), or (a)(2)(D)~~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)(1)(A) or (b)(1)(B)~~of this Part~~, as applicable.

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/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.

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/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.

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(l) of this Subpart (e.g., all coatings used on the line are subject to 0.67 kg/l ~~(5.6 lbs/gal)~~), and ~~which 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(l) of this Subpart must also be met.

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

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

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

where:

Ed= 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; Vi= Volume of each coating as applied for the day in units of gal/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); 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); and Fi= 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 ~~f(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) 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 ~~f(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) 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 ~~f(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 miscellaneous metal parts and products coating line, plastic parts and products coating line, or pleasure craft surface coating line ~~which that~~ is equipped with a capture system and control device shall operate the subject coating line unless:

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

2) The owner or operator of the coating line complies with all requirements set forth in subsection (b)(2) of this Section.

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

Section 219.208 Exemptions From Emission Limitations

a) Exemptions for all coating categories except wood furniture coating. The limitations of this Subpart shall not apply to coating lines within a source,

that otherwise would be subject to the same subsection of Section 219.204 (because they belong to the same coating category, e.g., can coating), provided that combined actual emissions of VOM from all lines at the source subject to that subsection never exceed 6.8 kg/day (15 lbs/day) before the application of capture systems and control devices. (For example, can coating lines within a source would not be subject to the limitations of Section 219.204(b) of this Subpart if the combined actual emissions of VOM from the can coating lines never exceed 6.8 kg/day (15 lbs/day) before the application of capture systems and control devices.) Prior to May 1, 2011, ~~v~~Volatile organic material emissions from heavy off-highway vehicle products coating lines must be combined with VOM emissions from miscellaneous metal parts and products coating lines to determine applicability. On and after May 1, 2011, VOM emissions from heavy off-highway vehicle products coating lines shall be combined with VOM emissions from miscellaneous metal parts and products coating lines and plastic parts and products coating lines to determine applicability. Any owner or operator of a coating source shall comply with 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(a) of this Subpart if total VOM emissions from the subject coating lines are always less than or equal to 6.8 kg/day (15 lbs/day) before the application of capture systems and control devices and, therefore, are not subject to the limitations of Section 219.204 of this Subpart. Once a category of coating lines at a source is subject to the limitations in Section 219.204 of this ~~Subpart~~Part the coating lines are always subject to the limitations in Section 219.204 of this Subpart.

b) Applicability for wood furniture coating

1) The limitations of this Subpart shall apply to a source's wood furniture coating lines if the source contains process emission units, not regulated by Subparts B, E, F (excluding Section 219.204(1) of this Subpart), H (excluding Section 219.405 of this Part), Q, R, S, T (excluding Section 219.486 of this Part), V, X, Y, Z or BB of this Part, which as a group both:

A) Have a maximum theoretical emissions of 91 Mg (100 tons) or more per calendar year of VOM if no air pollution control equipment were used, and

B) Are not limited to less than 91 Mg (100 tons) of VOM per calendar year if no air pollution control equipment were used, through production or capacity limitations contained in a federally enforceable permit or SIP revision.

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

A) Are not regulated by Subparts B, E, F (excluding Section 219.204(1) of this Subpart), H, Q, R, S, T (excluding Section 219.486 of this Part), V, X, Y, Z or BB of this Part; and

B) Are not included in any of the following categories: synthetic organic chemical manufacturing industry (SOCMI) distillation, SOCMI reactors, plastic parts coating (business machines), plastic parts coating (other), offset lithography, industrial wastewater, autobody refinishing, SOCMI batch

processing, volatile organic liquid storage tanks and clean-up solvents operations.

3) If a source ceases to fulfill the criteria of subsection (b)(1) or (b)(2) of this Section, the limitations of Section 219.204(1) of this Subpart shall continue to apply to any wood furniture coating line which was ever subject to the limitations of Section 219.204(1) of this Subpart.

4) For the purposes of subsection (b) of this Section, an emission unit shall be considered to be regulated by a Subpart if it is subject to the limitations of that Subpart. An emission unit is not considered regulated by a Subpart if it is not subject to the limits of that Subpart, e.g., the emission unit is covered by an exemption in the Subpart or the applicability criteria of the Subpart are not met.

5) Any owner or operator of a wood furniture coating line to which the limitations of this Subpart are not applicable due to the criteria in subsection (b) of this Section shall, upon request by the Agency or the USEPA, submit records to the Agency and the USEPA within 30 calendar days from the date of the request that document that the coating line is exempt from the limitations of this Subpart.

c) On and after March 15, 1996, the limitations of this Subpart shall not apply to touch-up and repair coatings used by a coating source described by subsections 219.204(b), (d), (f), (g), and (i), ~~(j), (m) and (n)~~ of this Subpart; provided that the source-wide volume of such coatings used does not exceed 0.95 ~~l~~ (1 quart) per eight-hour period or exceed 209 ~~l~~/yr (55 gal/yr) for any rolling twelve month period. Recordkeeping and reporting for touch-up and repair coatings shall be consistent with subsection ~~(ed)~~ of this Section.

d) Prior to May 1, 2011, the limitations of this Subpart shall not apply to touch-up and repair coatings used by a coating source described by subsections 219.204(j), (m), and (n) of this Subpart, provided that the source-wide volume of ~~such~~the coatings used does not exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr (55 gal/yr) for any rolling twelve month period. Recordkeeping and reporting for touch-up and repair coatings shall be consistent with subsection (e) of this Section.

~~ede~~) On and after March 15, 1996, the owner or operator of a coating line or a group of coating lines using touch-up and repair coatings that are exempted from the limitations of Section 219.204(b), (d), (f), (g), (i), (j), (m) and (n) of this Subpart because of the provisions of Section 219.208(c) or (d) of this Subpart shall:

1) Collect and record the name, identification number, and volume used of each touch-up and repair coating, as applied on each coating line, per eight-hour period and per month;

2) Perform calculations on a daily basis, and maintain at the source records of such calculations of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;

3) Perform calculations on a monthly basis, and maintain at the source records of such calculations of the combined volume of touch-up and repair coatings used source-wide for the month and the rolling twelve month period;

4) Prepare and maintain at the source an annual summary of the information required to be compiled pursuant to subsections (ede)(1) and (ede)(2) of this Section on or before January 31 of the following year;

5) Maintain at the source for a minimum period of three years all records required to be kept under this subsection and make such records available to the Agency upon request;

6) Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.95 ~~qt~~ (1 quart) per eight-hour period or exceeds 209 ~~qt~~/yr (55 gal/yr) for any rolling twelve month period within 30 days after any such exceedance. Such notification shall include a copy of any records of such exceedance; and

7) "Touch-up and repair coatings" means, for purposes of 35 Ill. Adm. Code 219.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.

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

Section 219.210 Compliance Schedule

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

a) No owner or operator of a coating line ~~which~~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(a)(2) or ~~219.204~~(q) of this Subpart, or subject to the limitations in Section 219.219 of this Subpart, shall operate ~~said~~the 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(a)(2) or ~~219.204~~(q), if applicable, or the alternative control options in Section 219.205 or 219.207, and all applicable requirements in Sections 219.211 and 219.219 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 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); B_i and V_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 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 that~~ 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 (b) 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 that~~ 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 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)(1)(B) ~~(2)~~, ~~and~~ (a)(1)(C) ~~(3)~~, (a)(2)(B), (a)(2)(C), or (a)(2)(D) 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(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~~

D) For coating lines subject to the limitations of Section 219.204(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line, and the solids turnover ratio of the EDP operation, with supporting calculations;

E) For coating lines subject to the limitations of Section 219.204(a)(2)(E), the weight of VOM per volume of each coating as applied each day on each coating line, calculated on an occurrence weighted average basis;

F) For coating lines subject to the limitations of Section 219.204(q) of this Subpart, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line; ~~and~~

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, unless otherwise specified, for each coating line and maintain the information at the source for a period of three years:

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

B) The weight of VOM per volume of each coating (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; ~~=~~

E) For coating lines subject to the limitations of Section 219.204(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line, certified product data sheets for each coating, and the solid turnover ratio for the EDP operation, calculated on a calendar monthly basis, with supporting calculations;

F) For coating lines subject to the limitations of Section 219.204(a)(2)(E), the weight of VOM per volume of each coating as applied each day on each coating line, calculated on an occurrence weighted average basis, and certified product data sheets for each coating;

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

3) On and after a date consistent with Section 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(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line.

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

~~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(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line, ~~and~~.

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

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), ~~ex~~(h), or (k) of this Subpart shall comply with the following:

1) By a date consistent with Section 219.106 of this Part, or upon initial 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, or combined primer surfacer and topcoat operation, subject to the limitations of Section 219.204(a)(1)(B) ~~(2)~~, ~~or~~ (a)(1)(C) ~~(3)~~, (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart shall comply with the following:

1) By a date consistent with Section 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. ~~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)(1)(B) ~~(2)~~, ~~and~~ (a)(1)(C) ~~(3)~~, (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart and the name and identification number of each coating line in each coating operation.

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

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

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

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

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

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

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

2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each topcoat or primer surfacer coating operation and maintain the information at the source for a period of three years:

A) All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 219.204(a)(1)(B) ~~(2)~~, ~~or~~ (a)(1)(C) ~~(3)~~, (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart including:

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

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

B) If a control device ~~(s) is~~ or devices are used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment and the associated coating operation; and a maintenance log for the capture system, control device and monitoring equipment, detailing all routine and non-routine maintenance performed including dates and duration of any outages.

3) On and after a date consistent with Section 219.106 of this Part or on and after the initial start-up date, the owner or operator of a subject coating operation shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 219.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) ~~(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)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) ~~(a)(2) or (a)(3)~~ of this Subpart shall be reported by sending a copy of such record to the Agency within 15 days from the end of the month in which the violation occurred.

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

g) On and after a date consistent with Section 219.106 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 219.219 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) A description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 219.219 of this Subpart;

B) For sources subject to Section 219.219(a)(6), the work practices plan specified in ~~such~~that Section;

C) For sources subject to Section 219.219(b)(6), the application ~~method(s)~~methods used to apply coatings on the subject coating line~~s~~;

2) Notify the Agency of any violation of Section 219.219 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(a)(2) or (q) 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 in this subsection, are less than the calculated daily allowable VOM emissions from the same group of coating lines. For any pre-existing coating line to be aggregated for the purposes of Section 219.212, 219.213, or 219.214 of this Subpart ("participating coating lines"), the source must establish that:

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

2) On the date the source elects to rely on this Section to demonstrate compliance with this Subpart, all coatings applied on the participating coating line are not already in compliance with the VOM content limitation for such

coating effective on or after March 15, 1996; or the participating coating line is a replacement line, as defined in subsection (a) of this Section with an operational change occurring on or after January 1, 1991.

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

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

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

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

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

where:

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

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

$$A_d = A_1 + A_p$$

where:

A_1 and A_p are defined in subsections (d)(2)(A) and (d)(2)(B) of this ~~subsection~~ Section.

A) The portion of the alternative daily emissions limitation for coating operations at a source using non-powder coating (A1) shall be determined for all such participating non-powder coating lines on a daily basis as follows:

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

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 ~~in the~~ by all participating coating lines at the source; C_i = The VOM content of each coating as applied in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
 D_i = The density of VOM in each coating applied. For the purposes of calculating ~~A_i~~, A_i, the density is 0.882 kg VOM/1 1 VOM (7.36 lbs VOM/gal VOM);
 V_i = Volume of each coating applied for the day in units of 1 (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);

~~and~~ L_i = ~~and~~ L_i = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

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/1 VOM (7.36 lbs VOM/gal VOM);
 V_j = Volume of each powder coating consumed for the day in units of 1 (gal) of coating;
 L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); ~~and~~ $K =$ and $K = A$ constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records

maintained pursuant to the requirements of Section 219.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Tests methods and recordkeeping requirements shall be approved by the Agency and USEPA and contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:

~~i)~~ ~~•K~~ cannot exceed 0.9 for non-recycled powder coating systems; or ~~ii)~~ ~~•K~~ cannot exceed 2.0 for recycled powder coating systems.

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

Section 219.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings and Miscellaneous Metal and Plastic Parts Coatings

a) Every owner or operator of a coating line subject to the requirements of Section 219.204(a)(2) of this Subpart shall:

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

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

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

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

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

6) Develop and implement a work practice plan to minimize VOM emissions from cleaning and from purging of equipment associated with coating lines subject to the limitations in Section 219.204(a)(2). The plan shall specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed ~~below~~in this subsection (a)(6) are minimized. If the owner or operator of the subject coating line has already implemented a work practice plan for ~~such~~the coating line pursuant to Subpart IIII of 40 CFR 63, incorporated by reference in Section 219.112 of this Part, the owner or operator may revise ~~such~~the plan as necessary to comply with this Section.

A) Vehicle body wiping;

B) Coating line purging;

C) Flushing of coating systems;

D) Cleaning of spray booth grates, walls, and equipment; and

F) Cleaning of external spray booth areas.

b) Except as provided in subsection (c) of this Section, every owner or operator of a coating line described in Section 219.204(q) of this Subpart shall:

- 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials are kept closed at all times except when depositing or removing these materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials;
 - 4) Convey VOM-containing coatings, thinners, coating-related waste materials, and cleaning materials from one location to another in closed containers or pipes;
 - 5) Minimize VOC emissions from cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers; and
 - 6) Apply all coatings using 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 (e**b**) (6) (C), flow coating means a non -atomized technique of applying coating to a substrate with a fluid nozzle with no air supplied to the nozzle;
 - D) Roll coating;
 - E) Dip coating, including electrodeposition. For purposes of this subsection (e**b**) (6) (E), electrodeposition means a water-borne dip coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the substrate due to the electrochemical potential difference that is created;
 - F) Airless spray;
 - G) Air-assisted airless spray; or
 - H) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if ~~such~~the method is approved in writing by the Agency.
- c) Notwithstanding subsection (b) of this Section, the application method limitations in subsection (b) (6) shall not apply to the following:
- 1) Coating lines complying with Section 219.207(k) (1);
 - 2) For metal parts and products coating operations: touch-up coatings, repair coatings, textured finishes, stencil coatings, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting

coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating;

3) For pleasure craft surface coating operations: extreme high gloss coatings;

4) For plastic parts and products coating operations: airbrush operations using 18.9 liters (5 gallons) or less of coating per year.

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

SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

Section 219.890 Applicability

a) Except as provided in subsection (b) of this Section, on and after May 1, 2011, the requirements of this Subpart shall apply to the owners or operators of sources that manufacture hulls or decks of boats from fiberglass, or that build molds to make hulls or decks of boats from fiberglass, and that emit 6.8 kg/day (15 lbs/day) or more of VOM, calculated in accordance with Section 219.894(a)(1)(B), from open molding resin and gel coat operations, resin and gel coat mixing operations, and resin and gel coat application equipment cleaning operations, in the absence of air pollution control equipment. If a source is subject to this Subpart based upon such criteria, the limitations of this Subpart shall apply to the manufacture of all fiberglass boat parts at the source.

b) Notwithstanding subsection (a) of this Section, the requirements of this Subpart shall not apply to the following:

1) Surface coatings applied to fiberglass boats;

2) Industrial adhesives used in the assembly of fiberglass boats. Polyester resin putties used to assemble fiberglass parts shall not be considered industrial adhesives for purposes of this exclusion;

3) Closed molding operations.

c) If a source is or becomes subject to one or more of the limitations in this Subpart, the source is always subject to the applicable provisions of this Subpart.

d) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in this Section is subject to the recordkeeping and reporting requirements specified in Section 219.894(a) of this Subpart.

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

Section 219.891 Emission Limitations and Control Requirements

a) Except as provided in subsection (f) of this Section, no owner or operator of a source subject to the requirements of this Subpart shall use a subject resin or gel coat at the source unless the resin and gel coat comply with subsection (b)(1) or (b)(2), (c), or (d) of this Section, as well as with subsections (e), (g), and (h) of this Section. For sources complying pursuant

to subsection (b) or (c) of this Section, if the non-monomer VOM content of a resin or gel coat exceeds 5 percent, by weight, the excess non-monomer VOM shall be added to the monomer VOM content of ~~such~~the resin or gel coat in accordance with the equation below:

Weighted Average
 Monomer VOM
 Content ~~=~~ _____

~~Where:~~
where:

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams.
 VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation.
 i = Subscript denoting a specific open molding resin or gel coat applied.
 n = Number of different open molding resins or gel coats used in the past 12 months in an operation.
 VOM_{nm} = Non-monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation.
 b) VOM Content Limitations-

1) Except as provided in subsection (e) of this Section, the monomer VOM content of a subject resin or gel coat shall not exceed the following limitations-i

		Weighted average monomer VOM content (weight percent)	
Production resin <u>(resini)</u>	Atomized spray+	28	A)
ii) Nonatomized+		<u>ii) Non-atomized</u> 35	
B) Pigmented gel coat+		33	C) Clear
gel coat+	48		D) Tooling resin
<u>(resini)</u> Atomized+		30	ii)
Nonatomized+		<u>ii) Non-atomized</u> 39	E) Tooling
gel coat+	40		

2) Except as provided in subsection (e) of this Section, the weighted average monomer VOM content of a subject resin or gel coat shall not exceed the applicable limitation set forth in subsection (b)(1) of this Section on a 12-month rolling average basis. Equation 1 ~~below~~ shall be used to determine the weighted average monomer VOM content for resin and gel coat materials.

Equation 1:

Weighted Average

Monomer VOM
 Content ~~=~~ _____
where:

~~Where:~~

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams-; VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation-; n = Number of different open molding resins or gel coats used in the past 12 months in an operation.

c) Emissions Averaging Alternative. The owner or operator of a source subject to the requirements of this Subpart may elect to include some or all of the subject resin and gel coat operations at the source in the emissions averaging alternative. Resin and gel coat operations utilizing the emissions averaging alternative shall comply with a source-specific monomer VOM mass emission limit on a 12-month rolling average basis, calculated at the end of each calendar month. All subject resin and gel coat operations that do not utilize the emissions averaging alternative shall comply with the requirements in subsection (b) or (d) of this Section, as well as with all other applicable requirements in this Section.

1) The owner or operator of a source subject to this subsection (c) shall use Equation 2 ~~below~~ to determine the source-specific monomer VOM mass emission limit for resin and gel coats included in the emissions average:

Equation 2:

~~Where:~~

Monomer
VOM Limit=
where:

Monomer VOM Content= Total allowable monomer VOM that can be emitted from the open molding operations included in the average, expressed in kilograms per 12-month period-; MR = Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in megagrams-

(Mg) :MPG = Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams-~~

Mg :MCG = Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams-~~

Mg :MTR = Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams-~~

Mg :MTG = Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in ~~megagrams-~~Mg.

The numerical coefficients associated with each term on the right hand side of Equation 2 are the allowable monomer VOM emission rates for that particular material in units of kg VOM/Mg of material used.

2) At the end of the first 12-month averaging period, and at the end of each subsequent month, the owner or operator of a source subject to this subsection (c) shall use Equation 3 ~~below~~ to calculate the monomer VOM emissions from the resin and gel coat operations included in the emissions average to determine whether ~~such~~the emissions exceed the limitation calculated using Equation 2.

Equation 3:

Monomer
VOM
Emissions =

~~Where:~~

where:

Monomer VOM Emissions = Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in ~~kilograms~~ kg; PVR = Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed in ~~kilograms per megagram~~ kg/Mg, calculated in accordance with Equation 4 ~~below in subsection (c) (3)~~; MR = Mass of production resin used in the past 12 months, expressed in ~~megagrams~~ Mg; PVPG = Weighted-average monomer VOM emission rate for pigmented gel coat used in the past 12 months, expressed in ~~kilograms per megagram~~ kg/Mg, calculated pursuant to Equation 4 ~~below~~; MPG = Mass of pigmented gel coat used in the past 12 months, expressed in ~~megagrams~~ Mg; PVCG = Weighted-average monomer VOM emission rate for clear gel coat used in the past 12 months, expressed in ~~kilograms per megagram~~ kg/Mg, calculated pursuant to Equation 4 ~~below~~; MCG = Mass of clear gel coat used in the past 12 months, expressed in ~~megagrams~~ Mg; PVTR = Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in ~~kilograms per megagram~~ kg/Mg, calculated pursuant to Equation 4 ~~below~~; MTR = Mass of tooling resin used in the past 12 months, expressed in ~~megagrams~~ Mg; PVTG = Weighted-average monomer VOM emission rate for tooling gel coat used in the past 12 months, expressed in ~~kilograms per megagram~~ kg/Mg, calculated pursuant to Equation 4 ~~below~~; MTG = Mass of tooling gel coat used in the past 12 months, expressed in ~~megagrams~~ Mg.

3) For purposes of Equation 3, the owner or operator of a source subject to this subsection (c) shall use Equation 4 below to calculate the weighted-average monomer VOM emission rate for the previous 12 months for each resin and gel coat operation included in the emissions average, except as provided in subsection (e) of this Section.

Equation 4:

~~Where:~~

where:

PVOP = Weighted-average monomer VOM emission rate for each open molding operation (PVR, PVPG, PVCG, PVTR, and PVTG) included in the average, expressed in ~~kilograms~~ kg of monomer VOM per ~~megagram~~ Mg of material applied; Mi = Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in ~~megagrams~~ Mg; n = Number of different open molding resins and gel coats used within an operation in the past 12 months; PVi = The monomer VOM emission rate for resin or gel coat (i) used within an operation in the past 12 months, expressed in ~~kilograms~~ kg of monomer VOM per ~~megagram~~ Mg of material applied. The monomer VOM emission rate formulas in subsection (c) (4) of this Section shall be used to compute PVi. If a source includes filled resins in the emissions average, the source shall use the value of PVF, calculated using

Equation 5 in subsection (e)(3) of this Section, as the value of PV_i for ~~such~~ those resins; i = Subscript denoting a specific open molding resin or gel coat applied.

4) For purposes of Equation 4 and subsection (e)(3) of this Section, the following monomer VOM emission rate formulas shall apply:

A) Production resin, tooling resin:

i) Atomized: $0.014 \times (\text{Resin VOM}\%)^{2.425}$

ii) Atomized, plus vacuum bagging with roll-out: $0.01185 \times (\text{Resin VOM}\%)^{2.425}$

iii) Atomized, plus vacuum bagging without roll-out: $0.00945 \times (\text{Resin VOM}\%)^{2.425}$

iv) Nonatomized: $0.014 \times (\text{Resin VOM}\%)^{2.275}$

v) Nonatomized, plus vacuum bagging with roll-out: $0.0110 \times (\text{Resin VOM}\%)^{2.275}$

vi) Nonatomized, plus vacuum bagging without roll-out: $0.0076 \times (\text{Resin VOM}\%)^{2.275}$

B) Pigmented gel coat, clear gel coat, tooling gel coat: $0.445 \times (\text{Gel Coat VOM}\%)^{1.675}$.

d) Capture System and Control Device Requirements. No owner or operator of a source subject to the requirements of this Subpart that is utilizing a capture system and control device for a subject resin or gel coat operation shall conduct ~~such~~ that operation unless the following requirements are satisfied:

1) An afterburner or carbon adsorber is installed and operated that meets the limitations set forth in this subsection (d). The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if ~~such~~ that device complies with all limitations in this subsection (d), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for ~~such~~ the control device, and ~~such~~ the plan is approved by the Agency and USEPA within federally enforceable permit conditions;

2) The VOM emissions at the outlet of the control device meet an emissions limitation determined using Equation 2 in subsection (c)(1) of this Section. In Equation 2, however, instead of using the mass of each material used over the past 12 months to determine the emission limitation, the owner or operator shall use the mass of each material used during the applicable control device performance test;

3) The owner or operator complies with all testing and monitoring requirements set forth in Section 219.892 of this Subpart.

e) Filled Resins. For all filled production and tooling resins, the owner or operator of a source subject to this Subpart shall adjust the monomer VOM emission rates determined pursuant to Section 219.891(b) and (c) of this

Subpart using Equation 5 ~~below~~ subsection (e)(3). If complying pursuant to Section 219.891(b), the emission rate determined using Equation 5 shall not exceed the limitations set forth in subsections (e)(1) and (e)(2) of this Section. If the non-monomer VOM content of a filled resin exceeds 5 percent, by weight, based on the unfilled resin, the excess non-monomer VOM shall be added to the monomer VOM content in accordance with the equation set forth in Section 219.891(a).

1) Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;

2) Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin applied;

3) Equation 5:

~~Where:~~
where:

PVF = The as-applied monomer VOM emission rate for the filled production resin or tooling resin, expressed in ~~kilograms~~ kg monomer VOM per ~~megagram~~ Mg of filled material.
PVU = The monomer VOM emission rate for the unfilled resin, before filler is added, calculated using the formulas in Section 219.891(b)(4) of this Subpart.
% Filler = The weight-percent of filler in the as-applied filled resin system.

f) The limitations in subsections (a) through (e) of this Section shall not apply to the following materials. ~~Such~~ These materials shall instead comply with the applicable requirements set forth in subsections (f)(1) through (f)(3) ~~below~~.

1) Production resins, including skin coat resins, that must meet specifications for use in military vessels or must be approved by the United States Coast Guard for use in the construction of lifeboats, rescue boats, and other life-saving appliances approved under 46 CFR Subchapter Q, incorporated by reference in Section 219.112 of this Part, or for use in the construction of small passenger vessels regulated by 40 CFR Subchapter T, incorporated by reference in Section 219.112 of this Part. The owner or operator of a source subject to this Subpart shall apply all such resins with nonatomizing resin application equipment;

2) Production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch ups. ~~Such~~ These materials shall not exceed 1 percent, by weight, of all ~~resin~~ resins and gel coats used at a subject source on a 12-month rolling average basis;

3) Pure, 100 percent vinylester resins used for skin coats. The owner or operator of a source subject to this Subpart shall apply ~~such~~ these resins with ~~nonatomizing~~ non-atomizing resin application equipment, and the total amount of ~~such~~ the resins shall not exceed 5 percent, by weight, of all resins used at the subject source on a 12-month rolling-average basis.

g) No owner or operator of a source subject to this Subpart shall use VOM- containing cleaning solutions to remove cured ~~resin~~ resins and gel coats

from fiberglass boat manufacturing application equipment. Additionally, no owner or operator shall use VOM-containing cleaning solutions for routine cleaning of application equipment unless:

1) The VOM content of the cleaning solution is less than or equal to 5 percent, by weight; or

2) The composite vapor pressure of the cleaning solution is less than or equal to 0.50 ~~mm-Hg~~mmHg at 68~~e~~°F.

h) No owner or operator of a source subject to this Subpart shall use resin or gel coat mixing containers with a capacity equal to or greater than 208 liters (55 gallons), including those used for on-site mixing of putties and polyputties, unless such containers have covers with no visible gaps in place at all times, except when material is being manually added to or removed from a container or when mixing or pumping equipment is being placed in or removed from a container.

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

Section 219.892 Testing and Monitoring Requirements

a) Testing to demonstrate compliance with the requirements of Section 219.891 of this Subpart shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Subpart. ~~Such~~The testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting ~~such~~the testing to allow the Agency to be present during testing.

b) Testing to demonstrate compliance with the monomer VOM content limitations for resin and gel coat materials in Section 219.891(b) of this Subpart shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, in accordance with SCAQMD 312-91, incorporated by reference in Section 219.112 of this Part.

c) The owner or operator of a source complying with this Subpart pursuant to Section 219.891(d) shall comply with the following:

1) By May 1, 2011, or upon initial start-up, whichever is later, and upon start-up of a new control device, conduct an initial performance test of the control device in accordance with this subsection (c) that demonstrates compliance with the emission limitation determined pursuant to Section 219.891(d).

2) Subsequent to the initial performance test described in subsection (c)(1) of this Section, conduct at least one performance test per calendar year. Performance tests used to demonstrate compliance with Section 219.891(d) shall be conducted at least six months apart, unless the performance test is being conducted following an exceedance of operating parameters as described in subsection (c)(3) of this Section, or per a request by the Agency.

3) Monitor and record relevant operating parameters, including the control efficiency of the control device and the amount of materials used in the fiberglass boat manufacturing process, during each control device performance test used to demonstrate compliance with Section 219.891(d). The owner or operator shall continue to operate the fiberglass boat manufacturing process

within ~~such~~the parameters until another performance test is conducted that demonstrates compliance with Section 219.891(d). The owner or operator shall monitor the parameters at all times when the control device is in operation. If the fiberglass boat manufacturing process exceeds any operating parameter by more than 10 percent, the owner or operator shall conduct additional performance testing in accordance with this Section within ~~ten~~10 operating days ~~of~~after the exceedance;

4) The methods and procedures of Section 219.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.891(d) of this Subpart, as follows:

A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;

B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part;

C) To determine the VOM concentration of the exhaust stream entering and exiting the control device, Method 25 or 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference at Section 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

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

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

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

D) Notwithstanding the criteria or requirements in Method ~~25~~25A, which specifies a minimum probe temperature of 129° C (265~~°~~°F), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.7~~°~~°C (350~~°~~°F); and

E) During testing, the fiberglass boat manufacturing operation shall be operated at representative operating conditions and flow rates~~+~~+.

5) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator shall:

A) Install, calibrate, operate, and maintain temperature monitoring ~~device(s)~~devices with an accuracy of ~~3e-2~~C or ~~5e-2~~F on the emissions control system in accordance with Section 219.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and

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

6) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator shall install, maintain, calibrate, and operate ~~such~~the monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 219.891(d).

d) Testing to demonstrate compliance with the VOM content limitations for cleaning solutions in Section 219.891(g) of this Subpart, and with the non-monomer VOM content limitations for resin and gel coat materials in Section 219.891(a) of this Subpart, shall be conducted upon request of the Agency, or as otherwise specified in this Subpart, as follows:

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

2) For cleaning solvents, the manufacturer's specifications for VOM content may be used if ~~such~~the manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(a) of this Part~~r~~; provided, however, Method 24 shall be used to determine compliance.

e) The owner or operator of a source subject to this Subpart and relying on the VOM content of the cleaning solution to comply with Section 219.891(g)(1) of this Subpart shall:

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

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

B) Pre-set the automatic feed equipment so that the consumption rates of the cleaning solvent and water (or other non-VOM), as applied, comply with Section 219.891(g)(1);

2) For cleaning solutions that are not prepared at the source with automatic feed equipment, keep records of the usage of cleaning solvent and water (or other non-VOM) as set forth in Section 219.894(g) of this Subpart.

f) Testing to demonstrate compliance with the VOM composite partial vapor pressure limitation for cleaning solvents set forth in Section 219.891(g) of this Subpart shall be conducted in accordance with the applicable methods and procedures set forth in Section 219.110 of this Part.

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

Section 219.894 Recordkeeping and Reporting Requirements

a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 219.890(a) of this Subpart shall:

1) By May 1, 2011, or upon initial start-up, whichever is later, submit a certification to the Agency that includes the following:

A) A declaration that the source is exempt from the requirements in this Subpart because of the criteria in Section 219.890(a);

B) Calculations ~~which~~that demonstrate that combined emissions of VOM from all subject fiberglass boat manufacturing operations (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operation) at the source never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment. To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from fiberglass boat manufacturing operations at the source (including solvents used for cleanup operations associated with the fiberglass boat manufacturing operations) and divide the amount by the number of days during that calendar month that ~~such~~the fiberglass boat manufacturing operations were in operation;

2) Notify the Agency of any record that shows that the combined emissions of VOM from subject fiberglass boat manufacturing operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, within 30 days after the event occurs, and provide copies of ~~such~~the record~~(s)~~ upon request by the Agency.

b) All sources subject to the requirements of this Subpart shall:

1) By May 1, 2011, or upon initial start-up of the source, whichever is later, and upon start-up of a new fiberglass boat manufacturing operation at the source, submit a certification to the Agency that includes:

A) Identification of each subject fiberglass boat manufacturing operation as of the date of certification;

B) A declaration that all subject fiberglass boat manufacturing operations, including related cleaning operations, are in compliance with the requirements of this Subpart;

C) The limitation with which each subject fiberglass boat manufacturing operation will comply (i.e., the VOM content limitation, the emissions averaging alternative, or the emissions control system alternative);

D) Initial documentation that each subject fiberglass boat manufacturing operation will comply with the applicable limitation, including copies of

manufacturer's specifications, test results (if any), formulation data, and calculations;

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

F) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.891(h) of this Subpart;

G) A description of each fiberglass boat manufacturing operation exempt pursuant to Section 219.890(b) of this Subpart, if any;

H) A description of materials subject to Section 219.891(f) of this Subpart, if any, used in each fiberglass boat manufacturing operation;

2) At least 30 calendar days before changing the method of compliance ~~between Sections~~in accordance with Section 219.891(b), (c), and (d), notify the Agency in writing of ~~such~~the change. ~~Such~~The notification shall include a demonstration of compliance with the newly applicable subsection;

3) Notify the Agency in writing of any violation of the requirements of this Subpart within 30 days following the occurrence of the violation and provide records documenting the violation upon request by the Agency;

4) Retain all records required by this Section for at least three years and make ~~such~~those records available to the Agency upon request.

c) The owner or operator of a fiberglass boat manufacturing operation subject to the limitations of Section 219.891 of this Subpart and complying by means of Section 219.891(b) 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 the name, identification number, and VOM content of each subject resin and gel coat as applied each day by each subject fiberglass boat manufacturing operation;

2) Collect and record the following information each day for each fiberglass boat manufacturing operation complying with Section 219.891(b):

A) The name, identification number, and VOM content of each subject resin and gel coat as applied each day by each fiberglass boat manufacturing operation; and

B) If complying with Section 219.891(b)(2), the daily weighted average VOM content of all subject ~~resin~~resins and gel coats as applied by each subject fiberglass boat manufacturing operation.

d) The owner or operator of a fiberglass boat manufacturing operation subject to the requirements of Section 219.891 of this Subpart and complying by means of Section 219.891(c) shall:

1) On and after May 1, 2011, collect and record the following information each month:

A) The amount of production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation;

B) The VOM content of each production resin, pigmented gel coat, clear gel coat, tooling resin, and tooling gel coat used in each subject fiberglass boat manufacturing operation;

C) Total monthly VOM emissions for all subject fiberglass boat manufacturing operations;

2) At the end of the first 12-month averaging period, and at the end of each subsequent month, collect and record the following information:

A) The monomer VOM mass emission limit for all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period, with supporting calculations;

B) The total actual emissions of VOM from all subject fiberglass boat manufacturing operations for the applicable 12-month averaging period.

e) The owner or operator of a fiberglass boat manufacturing operation subject to the requirements of Section 219.891 of this Subpart and complying by means of Section 219.891(d) shall:

1) By May 1, 2011, or upon initial start-up, whichever is later, and upon start-up of a new control device, submit a certification to the Agency that includes the following:

A) The type of control device used to comply with the requirements of Section 219.891(d);

B) The results of all tests and calculations necessary to demonstrate compliance with the requirements of Section 219.891(d); and

C) A declaration that the monitoring equipment required under Section 219.892 of this Subpart has been properly installed and calibrated according to manufacturer's specifications;

2) Within 90 days after conducting testing pursuant to Section 219.892, submit to the Agency a copy of all test results, as well as a certification that includes the following:

A) A declaration that all tests and calculations necessary to demonstrate whether the fiberglass boat manufacturing operation is in compliance with Section 219.891(d) have been properly performed;

B) A statement whether the fiberglass boat manufacturing ~~operation(s)~~ is/operations are or ~~is/are~~ not in compliance with Section 219.891(d);

C) The emissions limitation applicable during the control device performance test, with supporting calculations;

D) The operating parameters of the fiberglass boat manufacturing process during testing, as monitored in accordance with Section 219.892;

3) Collect and record daily the following information for each fiberglass boat manufacturing operation subject to the requirements of Section 219.891(d), and submit ~~such that~~ information to the Agency upon request:

A) Afterburner or other approved control device monitoring data in accordance with Section 219.892 of this Subpart;

B) A log of operating time for the control device and monitoring equipment;

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

D) Information to substantiate that the fiberglass boat manufacturing operation is operating in compliance with the parameters determined pursuant to Section 219.892.

f) The owner or operator of a source subject to the requirements in Section 219.891(f) of this Subpart shall collect and record the following information for each fiberglass boat manufacturing operation:

1) The name and identification number of each material subject to Section 219.891(f) as applied each day by each subject fiberglass boat manufacturing operation;

2) If subject to Section 219.891(f)(2), the amount of production and tooling ~~resin~~resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch-ups, used each month at the subject source, and the total amount of all ~~resin~~resins and gel coats used each month at the subject source;

3) If subject to Section 219.891(f)(3), the amount of pure, 100 percent vinylester resins used for skin coats each month at the subject source, and the total amount of all resins used each month at the subject source.

g) The owner or operator of a source subject to the requirements of Section 219.891 of this Subpart shall collect and record the following information for each cleaning solution used in each fiberglass boat manufacturing operation:

1) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.891(g) of this Subpart and ~~which~~that is prepared at the source with automatic equipment:

A) The name and identification of each cleaning solution;

B) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.892(d) of this Subpart;

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

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

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

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

2) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.891(g), and ~~which~~that is not prepared at the source with automatic equipment:

- A) The name and identification of each cleaning solution;
- B) Date and time of preparation, and each subsequent modification, of the batch;
- C) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.892(d);
- D) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
- E) The VOM content of the as-used cleaning solution, with supporting calculations;

3) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 219.891(g):

- A) The name and identification of each cleaning solution;
- B) Date and time of preparation, and each subsequent modification, of the batch;
- C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with Section 219.892(f) of this Subpart;
- D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
- E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with Section 219.110 of this Part.

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

SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section 219.900 Applicability

a) Except as provided in subsection (b) of this Section, on and after May 1, 2011, the requirements of this Subpart shall apply to miscellaneous industrial adhesive application operations at sources where the total actual VOM emissions from all such operations, including related cleaning activities, equal or exceed 6.8 kg/day (15 lbs/day), calculated in accordance with Section 219.904(a)(1)(B), in the absence of air pollution control equipment.

b) Notwithstanding subsection (a) of this Section:

1) The requirements of this Subpart shall not apply to miscellaneous industrial adhesive application operations associated with the following:

- A) Aerospace coatings;

- B) Metal furniture coatings;
- C) Large appliance coatings;
- D) Flat wood paneling coatings;
- E) Paper, film, and foil coatings;
- F) Lithographic printing;
- G) Letterpress printing;
- H) Flexible package printing;
- I) Coil coating;
- J) Fabric coating;
- K) Rubber tire manufacturing.

2) The requirements of Section 219.901(b) through (e) of this Subpart shall not apply to the following:

A) Adhesives or adhesive primers being tested or evaluated in any research and development operation or quality assurance or analytical laboratory;

B) Adhesives or adhesive primers used in the assembly, repair, or manufacture of aerospace or undersea-based weapon systems;

C) Adhesives or adhesive primers used in medical equipment manufacturing operations;

D) Cyanoacrylate adhesive application operations;

E) Aerosol adhesive and aerosol adhesive primer application operations;

F) Operations using polyester bonding putties to assemble fiberglass parts at fiberglass boat manufacturing facilities and at other reinforced plastic composite manufacturing facilities;

G) Operations using adhesives and adhesive primers that are supplied to the manufacturer in containers with a net volume of 0.47 liters (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.

c) If a miscellaneous industrial adhesive application operation at a source is or becomes subject to one or more of the limitations in this Subpart, the miscellaneous industrial adhesive application operation is always subject to the applicable provisions of this Subpart.

d) The owner or operator of a source exempt from the emission limitations and control requirements of this Subpart because of the criteria in subsection (a) of this Section is subject to the recordkeeping and reporting requirements specified in Section 219.904(a) of this Subpart.

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

Section 219.901 Emission Limitations and Control Requirements

a) The owner or operator of a source subject to the requirements of this Subpart shall comply with the limitations in subsection (b), (c), or (d) of this Section, as well as with the limitations in subsections (e) and (f) of this Section. Notwithstanding this requirement, sources subject to Section 219.900(b)(2) shall comply with the limitations in subsection (f) of this Section only.

b) The owner or operator of adhesive application operations listed below in this subsection (b) shall comply with the following VOM emission limitations. If an adhesive is used to bond dissimilar substrates together, the substrate category with the highest VOM emission limitation shall apply:

		kg VOM/l	adhesive or
<u>adhesive primer applied</u>	VOM/gal		<u>adhesive or primer applied</u>
1) General adhesive application operations			
<u>Operations</u>) Reinforced plastic composite		0.200	
(1.7)			
B) Flexible vinyl		0.250	(2.1)
C) Metal		0.030	(0.3)
D) Porous material (except wood)		0.120	(1.0)
E) Rubber		0.250	(2.1)
F) Wood	0.030		(0.3) G)
Other substrates	0.250		(2.1)
2) Specialty adhesive application operations			
A) Ceramic tile installation		0.130	
(1.1) B) Contact adhesive	0.250		(2.1)
C) Cove base installation	0.150		(1.3)
D) Indoor floor covering installation	0.150		(1.3)
Outdoor floor covering installation	0.250		(2.1)
perimeter bonded	0.660		(5.5)
<u>0.660(5.5)G)</u>			
Metal to urethane/rubber molding or casting	<u>0.850(7.1)H)</u>		
0.250	(2.1)		
<u>adhesive</u>			
0.750	(6.3)		
construction	0.200		(1.7)
solvent welding	0.400		(3.3)
butadiene styrene			(ABS) welding) <u>0.400(3.3)L)</u>
solvent welding	0.500		(4.2)
welding) <u>0.500(4.2)M)</u>			Sheet rubber lining installation 0.850
(7.1)	N)		Single-ply roof membrane 0.250
(2.1)			installation/repair (except ethylene
propylenediene			monomer (EPDM) roof
membrane) <u>0.250(2.1)O)</u>			Structural glazing 0.100
(0.8)	P)		Thin metal laminate 0.780
(6.5)	Q)		Tire repair 0.100

(0.8) R) Waterproof resorcinol glue+ 0.170
 (1.4)

3) Adhesive primer application operations

(7.5) A) Motor vehicle glass bonding primer 0.900

adhesive primer 0.650 (5.4) B) Plastic solvent welding

membrane 0.250 ~~primer+~~ (2.1) C) Single-ply roof adhesive

primer + 0.250 (2.1) D) Other adhesive primer+ 0.250 (2.1)

c) No owner or operator of a source subject to this Subpart shall operate a miscellaneous industrial adhesive application operation unless the daily-weighted average VOM content of subject adhesives as applied each day by ~~such~~ the operation, calculated in accordance with subsection (c) (1) of this Section, is less than or equal to the emissions limitation calculated in accordance with subsection (c) (2) of this Section.

1) Weighted Average of VOM Content of Adhesives Applied Each Day

$$VOM(WA) = \frac{\sum_{i=1}^n M_i VOM_i}{\sum_{i=1}^n M_i}$$

~~Where:~~
where:

~~VOM(WA)~~ VOMWA = The weighted average VOM content in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day; i = Subscript denoting a specific adhesive as applied; n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation; M_i = The mass of each adhesive, as applied, in units of kg/l (lb/gal); VOM_i = The VOM content in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied;

2) Mass Weighted Average VOM Limit for an Averaging Operation

$$Limit(WA) = \frac{\sum_{i=1}^n M_i Limit_i}{\sum_{i=1}^n M_i}$$

~~Where~~
where:

~~Limit(WA)~~ LimitWA = The mass weighted average VOM limit in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day in a single operation; i = Subscript denoting a specific adhesive as applied;

n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation; M_i = The mass of each adhesive, as applied, in units of kg/l (lb/gal); $Limit_i$ = The VOM limit, taken from subsection (b) of this ~~section~~Section, in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied; ~~---~~

d) No owner or operator of a source subject to this Subpart shall operate a miscellaneous industrial adhesive application operation employing a capture system and control device unless either:

1) An afterburner or carbon adsorption system is used that provides at least 85 percent reduction in the overall emissions of VOM from the application operation;

2) An alternative capture and control system is used that provides at least 85 percent reduction in the overall emissions of VOM from the application operation and is approved by the Agency and USEPA within federally enforceable permit conditions. The owner or operator shall submit a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for ~~such~~the control device; or

3) The owner or operator complies with the applicable limitation set forth in ~~Section 219.901~~subsection (b) of this ~~Subpart~~Section by utilizing a combination of low-VOM adhesives and an afterburner or carbon adsorption system. The owner or operator may use an alternative capture and control system if the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for ~~such~~the capture and control system and the system is approved by the Agency and USEPA within federally enforceable permit conditions.

e) The owner or operator of a source subject to this Subpart shall apply all miscellaneous industrial adhesives using one or more of the following methods:

1) Electrostatic spray;

2) High volume low pressure (HVLP) spray;

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

4) Roll coating or hand application, including non-spray application methods similar to hand or mechanically powered caulking gun, brush, or direct hand application;

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

6) Airless spray;

7) Air-assisted airless spray; or

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

f) The owner or operator of a source subject to this Subpart shall comply with the following work practices for each subject miscellaneous adhesive application operation at the source:

1) Store all VOM-containing adhesives, adhesive primers, process-related waste materials, cleaning materials, and used shop towels in closed containers;

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

3) Minimize spills of VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials;

4) Convey VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and

5) Minimize VOM emissions from the cleaning of application, storage, mixing, and conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

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

Section 219.902 Testing Requirements

a) Testing to demonstrate compliance with the requirements of this Subpart shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise provided in this Subpart. ~~Such~~The testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting ~~such~~the testing to allow the Agency to be present during testing~~+~~.

b) Testing to demonstrate compliance with the VOM content limitations in Section 219.901(b) of this Subpart shall be conducted as follows~~+~~:

1) Method 24, incorporated by reference in Section 219.112 of this Part, shall be used for non-reactive adhesives;

2) Appendix A of 40 CFR ~~Part~~-63, Subpart PPPP, incorporated by reference in Section 219.112 of this Part, shall be used for reactive adhesives;

3) The manufacturer's specifications for VOM content for adhesives may be used if ~~such~~the specifications are based on results of tests of the VOM content conducted in accordance with methods specified in subsections (b)(1) and (b)(2) of this Section, as applicable~~+~~.

c) For afterburners and carbon adsorbers, the methods and procedures of Section 219.105(d) through (f) of this Part shall be used for testing to demonstrate compliance with the requirements of Section 219.901(d) of this Subpart, as follows:

1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part;

2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part;

3) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used, except under the following circumstances, in which case Method 25A must be used:

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

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

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

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

d) An owner or operator using an emissions control system other than an afterburner or carbon adsorber shall conduct testing to demonstrate compliance with the requirements of Section 219.901(d) as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 219.901(d) (3).

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

Section 219.903 Monitoring Requirements

a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.901(d) of this Subpart shall:

1) Install, calibrate, operate, and maintain temperature monitoring ~~device(s)~~ devices with an accuracy of ~~3e-2~~C or ~~5e-2~~F on the emissions control system in accordance with Section 219.105(d) (2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and

2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature

monitoring ~~device(s)~~devices, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor;

b) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.901(d) of this Subpart shall install, maintain, calibrate, and operate ~~such~~the monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 219.901(d) (3).

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

Section 219.904 Recordkeeping and Reporting Requirements

a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 219.900(a) of this Subpart shall comply with the following:

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

A) A declaration that the source is exempt from the requirements of this Section because of the criteria in Section 219.900(a);

B) Calculations ~~which~~that demonstrate that combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment. To calculate daily emissions of VOM, the owner or operator shall determine the monthly emissions of VOM from miscellaneous industrial adhesive application operations at the source (including related cleaning activities) and divide this amount by the number of days during that calendar month that miscellaneous industrial adhesive application operations at the source were in operation;

2) Notify the Agency of any record that shows that the combined emissions of VOM from miscellaneous industrial adhesive application operations at the source, including related cleaning activities, ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, within 30 days after the event occurs, and provide copies of ~~such record(s)~~those records upon request by the Agency.

b) All sources subject to the requirements of this Subpart shall:

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

A) Identification of each subject adhesive application operation as of the date of certification;

B) A declaration that all subject adhesive application operations are in compliance with the requirements of this Subpart;

C) The limitation with which each subject adhesive application operation will comply (i.e., the VOM content limitation, the daily weighted averaging alternative, or the emissions control system alternative);

D) Initial documentation that each subject adhesive application operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;

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

F) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.901(f) of this Subpart;

G) A description of each adhesive application operation exempt pursuant to Section 219.900(b)(2) of this Subpart, if any; and

H) The application ~~method(s)~~methods used by each subject adhesive application operation-;

2) At least 30 calendar days before changing the method of compliance ~~between-~~Sections in accordance with Section 219.901(b), (c), and (d), notify the Agency in writing of ~~such~~the change. ~~Such~~The notification shall include a demonstration of compliance with the newly applicable subsection;

3) Notify the Agency in writing of any violation of the requirements of this Subpart within 30 days following the occurrence of the violation and provide records documenting the violation upon request by the Agency;

4) Retain all records required by this Section for at least three years and make ~~such~~those records available to the Agency upon request.

c) The owner or operator of an adhesive application operation subject to the limitations of Section 219.901 of this Subpart and complying by means of Section 219.901(b) shall comply with the following-;

1) By May 1, 2011, or upon the initial start-up date, whichever is later, submit a certification to the Agency that includes the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;

2) Collect and record the name, identification number, and VOM content of each adhesive as applied each day by each adhesive application operation complying with Section 219.901(b).

d) The owner or operator of an adhesive application operation subject to the limitations of Section 219.901 of this Subpart and complying by means of Section 219.901(c) 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 the name, identification number, and VOM content of each adhesive as applied by each subject adhesive application operation;

2) Collect and record the following information each day for each adhesive application operation complying by means of Section 219.901(c):

A) The name, identification number, and VOM content of each adhesive as applied each day by each subject adhesive application operation;

B) The daily weighted average VOM content of all adhesives as applied by each subject adhesive application operation.

e) The owner or operator of an adhesive application operation subject to the requirements of Section 219.901 of this Subpart and complying by means of Section 219.901(d) shall:

1) By May 1, 2011, or upon the initial start-up date, whichever is later, and upon initial start-up of a new control device, submit a certification to the Agency that includes the following:

A) The type of afterburner or other approved control device used to comply with the requirements of Section 219.901(d);

B) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 219.901(d); and

C) A declaration that the monitoring equipment required under Section 219.903 of this Subpart has been properly installed and calibrated according to manufacturer's specifications;

2) Within 90 days after conducting testing pursuant to Section 219.902 of this Subpart, submit to the Agency a copy of all test results, as well as a certification that includes the following:

A) A declaration that all tests and calculations necessary to demonstrate whether the adhesive application ~~operation(s) is~~operations are in compliance with Section 219.901(d) have been properly performed;

B) A statement whether the adhesive application ~~operation(s) is~~operations are or ~~is~~are not in compliance with Section 219.901(d); and

C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 219.903 of this Subpart;

3) Collect and record daily the following information for each adhesive application operation subject to the requirements of Section 219.901(d):

A) Afterburner or other approved control device monitoring data in accordance with Section 219.903 of this Subpart;

B) A log of operating time for the afterburner or other approved control device, monitoring equipment, and the associated application unit; and

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

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

JCAR350219-1004475r01

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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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Style change	0
Format changed	0
Total changes	1395

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2 SUBTITLE B: AIR POLLUTION
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328 219.947 Compliance Schedule

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332 MANUFACTURING PROCESSES

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338 219.967 Compliance Schedule

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365

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

368

369 SOURCE: Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-
370 24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883,
371 effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May
372 24, 1993, for a maximum of 150 days; amended in R93-9 at 17 Ill. Reg. 16918, effective
373 September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective
374 March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994;
375 amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18
376 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg.
377 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and
378 R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385,
379 effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996;
380 amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21
381 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective
382 February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006; amended
383 in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-20 at 34 Ill. Reg.
384 _____, effective _____.

385

386 SUBPART A: GENERAL PROVISIONS

387

Section 219.105 Test Methods and Procedures

a) **Coatings, Inks and Fountain Solutions**

The following test methods and procedures shall be used to determine compliance of as applied coatings, inks, and fountain solutions with the limitations set forth in this Part.

1) **Sampling:** Samples collected for analyses shall be one-liter taken into a one-liter container at a location and time such that the sample will be representative of the coating as applied (i.e., the sample shall include any dilution solvent or other VOM added during the manufacturing process). The container must be tightly sealed immediately after the sample is taken. Any solvent or other VOM added after the sample is taken must be measured and accounted for in the calculations in subsection (a)(3) of this Section. For multiple package coatings, separate samples of each component shall be obtained. A mixed sample shall not be obtained as it will cure in the container. Sampling procedures shall follow the guidelines presented in:

A) ASTM D 3925-81 (1985) standard practice for sampling liquid paints and related pigment coating. This practice is incorporated by reference in Section 219.112 of this Part.

B) ASTM E 300-86 standard practice for sampling industrial chemicals. This practice is incorporated by reference in Section 219.112 of this Part.

2) **Analyses:** The applicable analytical methods specified below shall be used to determine the composition of coatings, inks, or fountain solutions as applied.

A) Method 24 of 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part, shall be used to determine the VOM content and density of coatings. If it is demonstrated to the satisfaction of the Agency and the USEPA that plant coating formulation data are equivalent to Method 24 results, formulation data may be used. In the event of any inconsistency between a Method 24 test and a facility's formulation data, the Method 24 test will govern.

B) Method 24A of 40 CFR Part-60, Appendix A, incorporated by reference in Section 219.112, shall be used to determine the VOM content and density of rotogravure printing inks and related

431 coatings. If it is demonstrated to the satisfaction of the Agency
 432 and USEPA that the plant coating formulation data are equivalent
 433 to Method 24A results, formulation data may be used. In the event
 434 of any inconsistency between a Method 24A test and formulation
 435 data, the Method 24A test will govern.
 436

437 C) The following ASTM methods are the analytical procedures for
 438 determining VOM:
 439

- 440 i) ASTM D 1475-85: Standard test method for density of
 441 paint, varnish, lacquer and related products. This test
 442 method is incorporated by reference in Section 219.112 of
 443 this Part.
 444
- 445 ii) ASTM D 2369-87: Standard test method for volatile
 446 content of a coating. This test method is incorporated by
 447 reference in Section 219.112 of this Part.
 448
- 449 iii) ASTM D 3792-86: Standard test method for water content
 450 of water-reducible paints by direct injection into a gas
 451 chromatograph. This test method is incorporated by
 452 reference in Section 219.112 of this Part.
 453
- 454 iv) ASTM D 4017-81 (1987): Standard test method for water
 455 content in paints and paint materials by the Karl Fischer
 456 method. This test method is incorporated by reference in
 457 Section 219.112 of this Part.
 458
- 459 v) ASTM D 4457-85: Standard test method for determination
 460 of dichloromethane and 1,1,1, trichloroethane in paints and
 461 coatings by direct injection into a gas chromatograph. (The
 462 procedure delineated above can be used to develop
 463 protocols for any compounds specifically exempted from
 464 the definition of VOM.) This test method is incorporated by
 465 reference in Section 219.112 of this Part.
 466
- 467 vi) ASTM D 2697-86: Standard test method for volume non-
 468 volatile matter in clear or pigmented coatings. This test
 469 method is incorporated by reference in Section 219.112 of
 470 this Part.
 471
- 472 vii) ASTM D 3980-87: Standard practice for interlaboratory
 473 testing of paint and related materials. This practice is

474 incorporated by reference in Section 219.112 of this Part.
475

476 viii) ASTM E 180-85: Standard practice for determining the
477 precision of ASTM methods for analysis of and testing of
478 industrial chemicals. This practice is incorporated by
479 reference in Section 219.112 of this Part.
480

481 ix) ASTM D 2372-85: Standard method of separation of
482 vehicle from solvent-reducible paints. This method is
483 incorporated by reference in Section 219.112 of this Part.
484

485 D) Use of an adaptation to any of the analytical methods specified in
486 subsections (a)(2)(A), (B), and (C) of this Section may not be used
487 unless approved by the Agency and USEPA. An owner or
488 operator must submit sufficient documentation for the Agency and
489 USEPA to find that the analytical methods specified in subsections
490 (a)(2)(A), (B), and (C) of this Section will yield inaccurate results
491 and that the proposed adaptation is appropriate.
492

493 3) Calculations: Calculations for determining the VOM content, water
494 content and the content of any compounds which are specifically
495 exempted from the definition of VOM of coatings, inks and fountain
496 solutions as applied shall follow the guidance provided in the following
497 documents:
498

499 A) "A Guide for Surface Coating Calculation", EPA-340/1-86-016,
500 incorporated by reference in Section 219.112 of this Part.
501

502 B) "Procedures for Certifying Quantity of Volatile Organic
503 Compounds Emitted by Paint, Ink and Other Coatings" (revised
504 June 1986), EPA-450/3-84-019, incorporated by reference in
505 Section 219.112 of this Part.
506

507 C) "A Guide for Graphic Arts Calculations", August 1988, EPA-
508 340/1-88-003, incorporated by reference in Section 219.112 of this
509 Part.
510

511 b) Automobile or Light-Duty Truck Test Protocol
512

513 1) The protocol for testing, including determining the transfer efficiency, of
514 coating applicators, at primer surfacer operations and topcoat operations at
515 an automobile or light-duty truck assembly source shall follow the
516 procedures~~procedure~~ in the following:

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A) Prior to May 1, 2011: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Topcoat Operations" ("topcoat protocol"), December 1988, EPA-450/3-88-018, incorporated by reference in Section 219.112 of this Part.

B) On and after May 1, 2011: "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations" (topcoat protocol), September 2008, EPA-453/R-08-002, incorporated by reference in Section 219.112 of this Part.

2) Prior to testing pursuant to the applicable topcoat protocol, the owner or operator of a coating operation subject to the topcoat or primer surfacer limit in Section Sections 219.204(a)(1)(B), (2) or 219.204 (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(E)(3) shall submit a detailed testing proposal specifying the method by which testing will be conducted and how compliance will be demonstrated consistent with the applicable topcoat protocol. The proposal shall include, at a minimum, a comprehensive plan (including a rationale) for determining the transfer efficiency at each booth through the use of in-plant or pilot testing, the selection of coatings to be tested (for the purpose of determining transfer efficiency) including the rationale for coating groupings, the method for determining the analytic VOM content of as applied coatings and the formulation solvent content of as applied coatings, and a description of the records of coating VOM content as applied and coating's usage thatwhich will be kept to demonstrate compliance. Upon approval of the proposal by the Agency and USEPA, the compliance demonstration for a coating line may proceed.

c) Capture System Efficiency Test Protocols

1) Applicability
The requirements of subsection (c)(2) of this Section shall apply to all VOM emitting process emission units employing capture equipment (e.g., hoods, ducts), except those cases noted in this subsection (c)(1) below.

A) If an emission unit is equipped with (or uses) a permanent total enclosure (PTE) that meets Agency and USEPA specifications, and which directs all VOM to a control device, then the emission unit is exempted from the requirements described in subsection (c)(2) of this Section. The Agency and USEPA specifications to

560 determine whether a structure is considered a PTE are given in
 561 Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by
 562 reference in Section 219.112 of this Part. In this instance, the
 563 capture efficiency is assumed to be 100 percent and the emission
 564 unit is still required to measure control efficiency using appropriate
 565 test methods as specified in subsection (d) of this Section.
 566

567 B) If an emission unit is equipped with (or uses) a control device
 568 designed to collect and recover VOM (e.g., carbon adsorber), an
 569 explicit measurement of capture efficiency is not necessary
 570 provided that the conditions given below are met. The overall
 571 control of the system can be determined by directly comparing the
 572 input liquid VOM to the recovered liquid VOM. The general
 573 procedure for use in this situation is given in 40 CFR 60.433,
 574 incorporated by reference in Section 219.112 of this Part, with the
 575 following additional restrictions:
 576

577 i) The source owner or operator shall obtain data each
 578 operating day for the solvent usage and solvent recovery to
 579 permit the determination of the solvent recovery efficiency
 580 of the system each operating day using a 7-day rolling
 581 period. The recovery efficiency for each operating day is
 582 computed as the ratio of the total recovered solvent for that
 583 day and the most recent prior 6 operating days to the total
 584 solvent usage for the same 7-day period used for the
 585 recovered solvent, rather than a 30-day weighted average as
 586 given in 40 CFR 60.433 incorporated by reference in
 587 Section 219.112 of this Part. This ratio shall be expressed
 588 as a percentage. The ratio shall be computed within 72
 589 hours following each 7-day period. A source that believes
 590 that the 7-day rolling period is not appropriate may use an
 591 alternative multi-day rolling period not to exceed 30 days,
 592 with the approval of the Agency and USEPA. In addition,
 593 the criteria in subsection (c)(1)(B)(ii) or subsection
 594 (c)(1)(B)(iii) below must be met.
 595

596 ii) The solvent recovery system (i.e., capture and control
 597 system) must be dedicated to a single coating line, printing
 598 line, or other discrete activity that by itself is subject to an
 599 applicable VOM emission standard, or
 600

601 iii) If the solvent recovery system controls more than one
 602 coating line, printing line or other discrete activity that by

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

2) Capture Efficiency Protocols

The capture efficiency of an emission unit shall be measured using one of the protocols given below. Appropriate test methods to be utilized in each of the capture efficiency protocols are described in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. Any error margin associated with a test method or protocol may not be incorporated into the results of a capture efficiency test. If these techniques are not suitable for a particular process, then an alternative capture efficiency protocol may be used, pursuant to the provisions of Section 219.108(b) of this Part.

A) Gas/gas method using temporary total enclosure (TTE). The Agency and USEPA specifications to determine whether a temporary enclosure is considered a TTE are given in Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part. The capture efficiency equation to be used for this protocol is:

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

where:

CE = capture efficiency, decimal fraction;

G_w = mass of VOM captured and delivered to control device using a TTE;

F_w = mass of uncaptured VOM that escapes from a TTE.

Method 204B or 204C contained in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain G_w. Method 204D in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain F_w.

639 B) Liquid/gas method using TTE. The Agency and USEPA
 640 specifications to determine whether a temporary enclosure is
 641 considered a TTE are given in Method 204 of Appendix M of 40
 642 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this
 643 Part. The capture efficiency equation to be used for this protocol
 644 is:
 645

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

646

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649

where:

CE = capture efficiency, decimal fraction;

L = mass of liquid VOM input to process emission unit;

F_w = mass of uncaptured VOM that escapes from a TTE.

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Method 204A or 204F contained in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain L. Method 204 in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part is used to obtain F_w.

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C) Gas/gas method using the building or room (building or room enclosure), in which the affected coating line, printing line or other emission unit is located, as the enclosure, as determined by ~~in~~ Method 204 of Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part and in which "F_B" and "G" are measured while operating only the affected line or emission unit. All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency equation to be used for this protocol is:

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

667

668

669

670

where:

CE = capture efficiency, decimal fraction;

G = mass of VOM captured and delivered to control device;

F_B = mass of uncaptured VOM that escapes from building enclosure.

671
 672 Method 204B or 204C contained in Appendix M of 40 CFR Part
 673 51, incorporated by reference in Section 219.112 of this Part is
 674 used to obtain G. Method 204E in Appendix M of 40 CFR Part 51,
 675 incorporated by reference in Section 219.112 of this Part is used to
 676 obtain F_B .

677
 678 D) Liquid/gas method using the building or room (building or room
 679 enclosure), in which the affected coating line, printing line or other
 680 emission unit is located, as the enclosure as determined by Method
 681 204 of Appendix M of 40 CFR Part 51, incorporated by reference
 682 in Section 219.112 of this Part and in which " F_B " and "L" are
 683 measured while operating only the affected line emission unit. All
 684 fans and blowers in the building or room must be operated as they
 685 would under normal production. The capture efficiency equation
 686 to be used for this protocol is:

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

688
 689 where:
 690
 691

CE = capture efficiency, decimal fraction;

L = mass of liquid VOM input to process emission unit;

F_B = mass of uncaptured VOM that escapes from building enclosure.

692
 693 Method 204A or 204F contained in Appendix M of 40 CFR Part
 694 51, incorporated by reference in Section 219.112 of this Part is
 695 used to obtain L. Method 204E in Appendix M of 40 CFR Part 51,
 696 incorporated by reference in Section 219.112 of this Part is used to
 697 obtain F_B .

698
 699 E) Mass balance using Data Quality Objective (DQO) or Lower
 700 Confidence Limit (LCL) protocol. For a liquid/gas input where an
 701 owner or operator is using the DQO/LCL protocol and not using an
 702 enclosure as described in Method 204 of Appendix M of 40 CFR
 703 Part 51, incorporated by reference in Section 219.112 of this Part,
 704 the VOM content of the liquid input (L) must be determined using

705 Method 204A or 204F in Appendix M of 40 CFR ~~Part~~ 51,
 706 incorporated by reference in Section 219.112 of this Part. The
 707 VOM content of the captured gas stream (G) to the control device
 708 must be determined using Method 204B or 204C in Appendix M
 709 of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of
 710 this Part. The results of capture efficiency calculations (G/L) must
 711 satisfy the DQO or LCL statistical analysis methodology as
 712 described in Section 3 of USEPA's "Guidelines for Determining
 713 Capture Efficiency," incorporated by reference at Section 219.112
 714 of this Part. Where capture efficiency testing is done to determine
 715 emission reductions for the purpose of establishing emission
 716 credits for offsets, shutdowns, and trading, the LCL protocol
 717 cannot be used for these applications. In enforcement cases, the
 718 LCL protocol cannot confirm non-compliance; capture efficiency
 719 must be determined using a protocol under subsection (c)(2)(A),
 720 (B), (C) or (D) of this Section, the DQO protocol of this subsection
 721 (c)(2)(E), or an alternative protocol pursuant to Section 219.108(b)
 722 of this Part.
 723

724 BOARD NOTE: Where LCL was used in testing emission units
 725 that are the subject of later requests for establishing emission
 726 credits for offsets, shutdowns, and trading, prior LCL results may
 727 not be relied upon to determine the appropriate amount of credits.
 728 Instead, to establish the appropriate amount of credits, additional
 729 testing may be required that would satisfy the protocol of Section
 730 219.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section
 731 219.105(c)(2)(E), or an alternative protocol pursuant to Section
 732 219.108(b) of this Part.
 733

- 734 3) Simultaneous testing of multiple lines or emission units with a common
 735 control device. If an owner or operator has multiple lines sharing a
 736 common control device, the capture efficiency of the lines may be tested
 737 simultaneously, subject to the following provisions:
 738
- 739 A) Multiple line testing must meet the criteria of Section 4 of
 740 USEPA's "Guidelines for Determining Capture Efficiency,"
 741 incorporated by reference at Section 219.112 of this Part;
 742
 - 743 B) The most stringent capture efficiency required for any individual
 744 line or unit must be met by the aggregate of lines or units; and
 745
 - 746 C) Testing of all the lines of emission units must be performed with
 747 the same capture efficiency test protocol.

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- 4) Recordkeeping and Reporting
 - A) All owners or operators affected by this subsection must maintain a copy of the capture efficiency protocol submitted to the Agency and the USEPA on file. All results of the appropriate test methods and capture efficiency protocols must be reported to the Agency within ~~sixty (60)~~ days ~~after~~ of the test date. A copy of the results must be kept on file with the source for a period of ~~three (3)~~ years.
 - B) If any changes are made to capture or control equipment, then the source is required to notify the Agency and the USEPA of these changes and a new test may be required by the Agency or the USEPA.
 - C) The source must notify the Agency 30 days prior to performing any capture efficiency or control test. At that time, the source must notify the Agency which capture efficiency protocol and control device test methods will be used. Notification of the actual date and expected time of testing must be submitted a minimum of 5 working days prior to the actual date of the test. The Agency may at its discretion accept notification with shorter advance notice provided that such arrangements do not interfere with the Agency's ability to review the protocol and/or observe testing.
 - D) Sources utilizing a PTE must demonstrate that this enclosure meets the requirement given in Method 204 in Appendix M of 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part, for a PTE during any testing of their control device.
 - E) Sources utilizing a TTE must demonstrate that their TTE meets the requirements given in Method 204 in Appendix M or 40 CFR ~~Part~~ 51, incorporated by reference in Section 219.112 of this Part, for a TTE during any testing of their control device. The source must also provide documentation that the quality assurance criteria for a TTE have been achieved.
 - F) Any source utilizing the DQO or LCL protocol must submit the following information to the Agency with each test report:
 - i) A copy of all test methods, Quality Assurance/Quality Control procedures, and calibration procedures to be used

- 790 from those described in Appendix M of 40 CFR Part 51,
 791 incorporated by reference in Section 219.112 of this Part;
 792
 793 ii) A table with information on each sample taken, including
 794 the sample identification and the VOM content of the
 795 sample;
 796
 797 iii) The quantity of material used for each test run;
 798
 799 iv) The quantity of captured VOM for each test run;
 800
 801 v) The capture efficiency calculations and results for each test
 802 run;
 803
 804 vi) The DQO and/or LCL calculations and results; and
 805
 806 vii) The Quality Assurance/Quality Control results, including
 807 how often the instruments were calibrated, the calibration
 808 results, and the calibration gases used.
 809
- 810 d) Control Device Efficiency Testing and Monitoring
- 811
- 812 1) The control device efficiency shall be determined by simultaneously
 813 measuring the inlet and outlet gas phase VOM concentrations and gas
 814 volumetric flow rates in accordance with the gas phase test methods
 815 specified in subsection (f) of this Section.
 816
- 817 2) An owner or operator:
- 818
- 819 A) That uses an afterburner or carbon adsorber to comply with any
 820 Section of Part 219 shall use Agency and USEPA approved
 821 continuous monitoring equipment which is installed, calibrated,
 822 maintained, and operated according to vendor specifications at all
 823 times the control device is in use except as provided in subsection
 824 (d)(3) of this Section. The continuous monitoring equipment must
 825 monitor the following parameters:
 826
- 827 i) For each afterburner which does not have a catalyst bed,
 828 the combustion chamber temperature of each afterburner.
 829
- 830 ii) For each afterburner which has a catalyst bed, commonly
 831 known as a catalytic afterburner, the temperature rise
 832 across each catalytic afterburner bed or VOM concentration

- 833 of exhaust.
- 834
- 835 iii) For each carbon adsorber, the VOM concentration of each
- 836 carbon adsorption bed exhaust or the exhaust of the bed
- 837 next in sequence to be desorbed.
- 838
- 839 B) Must install, calibrate, operate and maintain, in accordance with
- 840 manufacturer's specifications, a continuous recorder on the
- 841 temperature monitoring device, such as a strip chart, recorder or
- 842 computer, having an accuracy of ± 1 percent of the temperature
- 843 measured, expressed in degrees Celsius or $\pm 0.5^\circ \text{C}$, whichever is
- 844 greater.
- 845
- 846 C) Of an automobile or light-duty truck primer surfacer operation or
- 847 topcoat operation subject to subsection (d)(2)(A)-~~above~~, shall keep
- 848 a separate record of the following data for the control devices,
- 849 unless alternative provisions are set forth in a permit pursuant to
- 850 Title V of the Clean Air Act:
- 851
- 852 i) For thermal afterburners for which combustion chamber
- 853 temperature is monitored, all 3-hour periods of operation in
- 854 which the average combustion temperature was more than
- 855 28°C (50°F) below the average combustion temperature
- 856 measured during the most recent performance test that
- 857 demonstrated that the operation was in compliance.
- 858
- 859 ii) For catalytic afterburners for which temperature rise is
- 860 monitored, all 3-hour periods of operation in which the
- 861 average gas temperature before the catalyst bed is more
- 862 than 28°C (50°F) below the average gas temperature
- 863 immediately before the catalyst bed measured during the
- 864 most recent performance test that demonstrated that the
- 865 operation was in compliance.
- 866
- 867 iii) For catalytic afterburners and carbon adsorbers for which
- 868 VOM concentration is monitored, all 3-hour periods of
- 869 operation during which the average VOM concentration or
- 870 the reading of organics in the exhaust gases is more than 20
- 871 percent greater than the average exhaust gas concentration
- 872 or reading measured by the organic monitoring device
- 873 during the most recent determination of the recovery
- 874 efficiency of a carbon adsorber or performance test for a
- 875 catalytic afterburner, which determination or test that

demonstrated that the operation was in compliance.

- 3) An owner or operator that uses a carbon adsorber to comply with Section 219.401 of this Part may operate the adsorber during periods of monitoring equipment malfunction, provided that:
 - A) The owner or operator notifies in writing the Agency and USEPA, within 10 days after the conclusion of any 72 hour period during which the adsorber is operated and the associated monitoring equipment is not operational, of such monitoring equipment failure and provides the duration of the malfunction, a description of the repairs made to the equipment, and the total to date of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational;
 - B) During such period of malfunction the adsorber is operated using timed sequences as the basis for periodic regeneration of the adsorber;
 - C) The period of such adsorber operation does not exceed 360 hours in any calendar year without the approval of the Agency and USEPA; and
 - D) The total of all hours in the calendar year during which the adsorber was operated and the associated monitoring equipment was not operational shall be reported, in writing, to the Agency and USEPA by January 31st of the following calendar year.

e) Overall Efficiency

- 1) The overall efficiency of the emission control system shall be determined as the product of the capture system efficiency and the control device efficiency or by the liquid/liquid test protocol as specified in 40 CFR 60.433, incorporated by reference in Section 219.112 of this Part, (and revised by subsection (c)(1)(B) of this Section) for each solvent recovery system. In those cases in which the overall efficiency is being determined for an entire line, the capture efficiency used to calculate the product of the capture and control efficiency is the total capture efficiency over the entire line.
- 2) For coating lines which are both chosen by the owner or operator to comply with Section 219.207(a), (d), (e), (f), or (g) of this Part by the alternative in Section 219.207(b)(2) of this Part and meet the criteria

919 allowing them to comply with Section 219.207 instead of Section 219.204
 920 of this Part, the overall efficiency of the capture system and control
 921 device, as determined by the test methods and procedures specified in
 922 subsections (c), (d) and (e)(1) of this Section, shall be no less than the
 923 equivalent overall efficiency which shall be calculated by the following
 924 equation:
 925

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

926

927

928

929

where:

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

VOM_a = Actual VOM content of a coating, or the daily-weighted average VOM content of two or more coatings (if more than one coating is used), as applied to the subject coating line as determined by the applicable test methods and procedures specified in subsection (a)(4)(i) of this Part in units of kg VOM/1 (lb VOM/gal) of coating solids as applied;

VOM_l = The VOM emission limit specified in Sections 219.204 or 219.205 of this Part in units of kg VOM/1 (lb VOM/gal) of coating solids as applied.

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- f) Volatile Organic Material Gas Phase Source Test Methods
 The methods in 40 CFR ~~Part~~-60, Appendix A, incorporated by reference in Section 219.112 of this Part delineated below shall be used to determine control device efficiencies.
 - 1) 40 CFR ~~Part~~-60, Appendix A, Method 18, 25 or 25A, incorporated by reference in Section 219.112 of this Part as appropriate to the conditions at the site, shall be used to determine VOM concentration. Method selection shall be based on consideration of the diversity of organic species present and their total concentration and on consideration of the potential presence of interfering gases. Except as indicated in subsections (f)(1)(A) and (B) below, the test shall consist of three separate runs, each lasting a minimum of 60 min, unless the Agency and the USEPA determine that process variables dictate shorter sampling times.

- 946 A) When the method is to be used to determine the efficiency of a
 947 carbon adsorption system with a common exhaust stack for all the
 948 individual adsorber vessels, the test shall consist of three separate
 949 runs, each coinciding with one or more complete sequences
 950 through the adsorption cycles of all the individual adsorber vessels.
 951
- 952 B) When the method is to be used to determine the efficiency of a
 953 carbon adsorption system with individual exhaust stacks for each
 954 adsorber vessel, each adsorber vessel shall be tested individually.
 955 The test for each adsorber vessel shall consist of three separate
 956 runs. Each run shall coincide with one or more complete
 957 adsorption cycles.
 958
- 959 2) 40 CFR ~~Part~~ 60, Appendix A, Method 1 or 1A, incorporated by reference
 960 in Section 219.112 of this Part, shall be used for sample and velocity
 961 traverses.
 962
- 963 3) 40 CFR ~~Part~~ 60, Appendix A, Method 2, 2A, 2C or 2D, incorporated by
 964 reference in Section 219.112 of this Part, shall be used for velocity and
 965 volumetric flow rates.
 966
- 967 4) 40 CFR ~~Part~~ 60, Appendix A, Method 3, incorporated by reference in
 968 Section 219.112 of this Part, shall be used for gas analysis.
 969
- 970 5) 40 CFR ~~Part~~ 60, Appendix A, Method 4, incorporated by reference in
 971 Section 219.112 of this Part, shall be used for stack gas moisture.
 972
- 973 6) 40 CFR ~~Part~~ 60, Appendix A, Methods 2, 2A, 2C, 2D, 3 and 4,
 974 incorporated by reference in Section 219.112 of this Part, shall be
 975 performed, as applicable, at least twice during each test run.
 976
- 977 7) Use of an adaptation to any of the test methods specified in subsections
 978 (f)(1), (2), (3), (4), (5) and (6) of this Section may not be used unless
 979 approved by the Agency and the USEPA on a case by case basis. An
 980 owner or operator must submit sufficient documentation for the Agency
 981 and the USEPA to find that the test methods specified in subsections
 982 (f)(1), (2), (3), (4), (5) and (6) of this Section will yield inaccurate results
 983 and that the proposed adaptation is appropriate.
 984
- 985 g) Leak Detection Methods for Volatile Organic Material
 986 Owners or operators required by this Part to carry out a leak detection monitoring
 987 program shall comply with the following requirements:
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- 1) Leak Detection Monitoring
 - A) Monitoring shall comply with 40 CFR 60, Appendix A, Method 21, incorporated by reference in Section 219.112 of this Part.
 - B) The detection instrument shall meet the performance criteria of Method 21.
 - C) The instrument shall be calibrated before use on each day of its use by the methods specified in Method 21.
 - D) Calibration gases shall be:
 - i) Zero air (less than 10 ppm of hydrocarbon in air); and
 - ii) A mixture of methane or n-hexane and air at a concentration of approximately, but no less than, 10,000 ppm methane or n-hexane.
 - E) The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.
 - 2) When equipment is tested for compliance with no detectable emissions as required, the test shall comply with the following requirements:
 - A) The requirements of subsections (g)(1)(A) through (g)(1)(E) of this Section ~~above~~ shall apply.
 - B) The background level shall be determined as set forth in Method 21.
 - 3) Leak detection tests shall be performed consistent with:
 - A) "APTI Course SI 417 controlling Volatile Organic Compound Emissions from Leaking Process Equipment", EPA-450/2-82-015, incorporated by reference in Section 219.112 of this Part.
 - B) "Portable Instrument User's Manual for Monitoring VOM Sources", EPA-340/1-86-015, incorporated by reference in Section 219.112 of this Part.
 - C) "Protocols for Generating Unit-Specific Emission Estimates for

- 1032 Equipment Leaks of VOM and VHAP", EPA-450/3-88-010,
 1033 incorporated by reference in Section 219.112 of this Part.
 1034
 1035 D) "Petroleum Refinery Enforcement Manual", EPA-340/1-80-008,
 1036 incorporated by reference in Section 219.112 of this Part.
 1037
 1038 h) Bulk Gasoline Delivery System Test Protocol
 1039
 1040 1) The method for determining the emissions of gasoline from a vapor
 1041 recovery system are delineated in 40 CFR 60, Subpart XX, Section
 1042 60.503, incorporated by reference in Section 219.112 of this Part.
 1043
 1044 2) Other tests shall be performed consistent with:
 1045
 1046 A) "Inspection Manual for Control of Volatile Organic Emissions
 1047 from Gasoline Marketing Operations: Appendix D", EPA-340/1-
 1048 80-012, incorporated by reference in Section 219.112 of this Part.
 1049
 1050 B) "Control of Hydrocarbons from Tank Truck Gasoline Loading
 1051 Terminals: Appendix A", EPA-450/2-77-026, incorporated by
 1052 reference in Section 219.112 of this Part.
 1053
 1054 i) Notwithstanding other requirements of this Part, upon request of the Agency
 1055 where it is necessary to demonstrate compliance, an owner or operator of an
 1056 emission unit which is subject to this Part shall, at his own expense, conduct tests
 1057 in accordance with the applicable test methods and procedures specific in this
 1058 Part. Nothing in this Section shall limit the authority of the USEPA pursuant to
 1059 the Clean Air Act, as amended, to require testing.
 1060
 1061 j) Stage II Gasoline Vapor Recovery Test Methods
 1062 The methods for determining the acceptable performance of Stage II Gasoline
 1063 Vapor Recovery System are delineated in "Technical Guidance-Stage II Vapor
 1064 Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline
 1065 Dispensing Facilities," found at EPA 450/3-91-022b and incorporated by
 1066 reference in Section 219.112 of this Part. Specifically, the test methods are as
 1067 follows:
 1068
 1069 1) Dynamic Backpressure Test is a test procedure used to determine the
 1070 pressure drop (flow resistance) through balance vapor collection and
 1071 control systems (including nozzles, vapor hoses, swivels, dispenser piping
 1072 and underground piping) at prescribed flow rates.
 1073
 1074 2) Pressure Decay/Leak Test is a test procedure used to quantify the vapor

1075 tightness of a vapor collection and control system installed at gasoline
1076 dispensing facilities.

1077
1078 3) Liquid Blockage Test is a test procedure used to detect low points in any
1079 vapor collection and control system where condensate may accumulate.
1080

1081 (Source: Amended at 34 Ill. Reg. _____, effective _____)
1082

1083 **Section 219.106 Compliance Dates**
1084

1085 a) Except as provided in ~~subsections~~ subsection (b) and (c) below, compliance with
1086 the requirements of this Part is required by May 15, 1992, consistent with the
1087 provisions of Section 219.103 of this Part.
1088

1089 b) As this Part is amended from time to time, compliance dates included in the
1090 specific Subparts supersede the requirements of this Section except as limited by
1091 Section 219.101(b) of this Subpart.
1092

1093 c) Any owner or operator of a source subject to the requirements of Section
1094 219.204(a)(2) or 219.204(q) of this Part shall comply with the applicable
1095 requirements in those Sections, as well as all applicable requirements in Sections
1096 219.205 through 219.214 and 219.219, by May 1, 2011.
1097

1098 (Source: Amended at 34 Ill. Reg. _____, effective _____)
1099

1100 **Section 219.112 Incorporations by Reference**
1101

1102 The following materials are incorporated by reference and do not contain any subsequent
1103 additions or amendments:
1104

1105 a) American Society for Testing and Materials, 100 Barr Harbor Drive, West
1106 Conshohocken~~1916 Race Street, Philadelphia, PA 19428-9555~~19103
1107

1108 1) ASTM D 2879-86
1109

1110 2) ASTM D 323-82
1111

1112 3) ASTM D 86-82
1113

1114 4) ASTM D 369-69 (1971)
1115

1116 5) ASTM D 396-69
1117

- 1118 6) ASTM D 2880-71
- 1119
- 1120 7) ASTM D 975-68
- 1121
- 1122 8) ASTM D 3925-81 (1985)
- 1123
- 1124 9) ASTM E 300-86
- 1125
- 1126 10) ASTM D 1475-85
- 1127
- 1128 11) ASTM D 2369-87
- 1129
- 1130 12) ASTM D 3792-86
- 1131
- 1132 13) ASTM D 4017-81 (1987)
- 1133
- 1134 14) ASTM D 4457-85
- 1135
- 1136 15) ASTM D 2697-86
- 1137
- 1138 16) ASTM D 3980-87
- 1139
- 1140 17) ASTM E 180-85
- 1141
- 1142 18) ASTM D 2372-85
- 1143
- 1144 19) ASTM D 97-66
- 1145
- 1146 20) ASTM E 168-87 (1977)
- 1147
- 1148 21) ASTM E 169-87
- 1149
- 1150 22) ASTM E 260-91
- 1151
- 1152 23) ASTM D 2504-83
- 1153
- 1154 24) ASTM D 2382-83
- 1155
- 1156 25) ASTM D 323-82 (approved 1982)
- 1157
- 1158 b) Standard Industrial Classification Manual, published by Executive Office of the
- 1159 President, Office of Management and Budget, Washington, D.C., 1987.
- 1160

- 1161 c) American Petroleum Institute Bulletin 2517, "Evaporation Loss From Floating
1162 Roof Tanks", Second ed., February, 1980.
1163
- 1164 d) 40 CFR ~~Part~~ 60 (July 1, 1991).
1165
- 1166 e) 40 CFR ~~Part~~ 61 (July 1, 1991).
1167
- 1168 f) 40 CFR ~~Part~~ 50 (July 1, 1991).
1169
- 1170 g) 40 CFR ~~Part~~ 51 (July 1, 1991) and 40 CFR ~~Part~~ 51, Appendix M, Methods 204-
1171 204F (July 1, 1999).
1172
- 1173 h) 40 CFR ~~Part~~ 52 (July 1, 1991).
1174
- 1175 i) 40 CFR ~~Part~~ 80 (July 1, 1991) and 40 CFR ~~Part~~ 80, Appendixes D, E, and F (July
1176 1, 1993).
1177
- 1178 j) "A Guide for Surface Coating Calculation", July 1986, United States
1179 Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016.
1180
- 1181 k) "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by
1182 Paint, Ink and Other Coating", (revised June 1986), United States Environmental
1183 Protection Agency, Washington D.C., EPA-450/3-84-019.
1184
- 1185 l) "A Guide for Graphic Arts Calculations", August 1988, United States
1186 Environmental Protection Agency, Washington D.C., EPA-340/1-88-003.
1187
- 1188 m) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate
1189 of Automobile and Light-Duty Truck Topcoat Operations", December 1988,
1190 United States Environmental Protection Agency, Washington D.C., EPA-450/3-
1191 88-018.
1192
- 1193 n) "Control of Volatile Organic Emissions from Manufacturing of Synthesized
1194 Pharmaceutical Products", December 1978, United States Environmental
1195 Protection Agency, Washington, D.C., EPA-450/2-78-029.
1196
- 1197 o) "Control of Volatile Organic Compound Leaks from Gasoline Tank Trucks and
1198 Vapor Collection Systems", December 1978, Appendix B, United States
1199 Environmental Protection Agency, Washington, D.C., EPA-450/2-78-051.
1200
- 1201 p) "Control of Volatile Organic Compound Emissions from Large Petroleum Dry
1202 Cleaners", September 1982, United States Environmental Protection Agency,
1203 Washington, D.C., EPA-450/3-82-009.

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 1243
 1244
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 1246
- q) "APTI Course SI417 Controlling Volatile Organic Compound Emissions from Leaking Process Equipment", 1982, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-82-015.
 - r) "Portable Instrument User's Manual for Monitoring VOM Sources", June 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-015.
 - s) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOM and VHAP", October 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-010.
 - t) "Petroleum Refinery Enforcement Manual", March 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-008.
 - u) "Inspection Manual for Control of Volatile Organic Emissions from Gasoline Marketing Operations: Appendix D", 1980, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-80-012.
 - v) "Control of Hydrocarbons from Tank Truck Gasoline Loading Terminals: Appendix A", December 1977, United States Environmental Protection Agency, Washington, D.C., EPA-450/2-77-026.
 - w) "Technical Guidance-Stage II Vapor Recovery Systems for Control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities", November 1991, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-91-022b.
 - x) California Air Resources Board, Compliance Division. Compliance Assistance Program: Gasoline Marketing and Distribution: Gasoline Facilities Phase I & II (October 1988, rev. November 1993) (CARB Manual).
 - y) "Guidelines for Determining Capture Efficiency," January 1995, Office of Air Quality Planning and Standards, United States Environmental Protection Agency, Research Triangle Park, NC.
 - z) Memorandum "Revised Capture Efficiency Guidance for Control of Volatile Organic Compound Emissions," February, 1995, John S. Seitz, Director, Office of Air Quality Planning and Standards, United States Environmental Protection Agency.
 - aa) "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations",

1247 September 2008, United States Environmental Protection Agency, Washington,
 1248 D.C., EPA-453/R-08-002.

1249

1250 bb) 40 CFR 63 Subpart PPPP, Appendix A (2008).

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1252 cc) 46 CFR Subchapter Q (2007).

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1254 dd) 46 CFR Subchapter T (2008).

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1256 (Source: Amended at 34 Ill. Reg. _____, effective _____)

1257

SUBPART F: COATING OPERATIONS

1258

1259 **Section 219.204 Emission Limitations**

1260

1261 Except as provided in Sections 219.205, 219.207, 219.208, 219.212, 219.215 and 219.216 of this
 1262 Subpart, no owner or operator of a coating line shall apply at any time any coating in which the
 1263 VOM content exceeds the following emission limitations for the specified coating. Except as
 1264 otherwise provided in Section 219.204(a), (j), (l), (n), and (q), compliance with the emission
 1265 limitations marked with an asterisk in this Section is required on and after March 15, 1996, and
 1266 compliance with emission limitations not marked with an asterisk is required until March 15,
 1267 1996. The following emission limitations are expressed in units of VOM per volume of coating
 1268 (minus water and any compounds which are specifically exempted from the definition of VOM)
 1269 as applied at each coating applicator, except where noted. Compounds which are specifically
 1270 exempted from the definition of VOM should be treated as water for the purpose of calculating
 1271 the "less water" part of the coating composition. Compliance with this Subpart must be
 1272 demonstrated through the applicable coating analysis test methods and procedures specified in
 1273 Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in
 1274 Section 219.211(c) of this Subpart except where noted. (Note: The equation presented in Section
 1275 219.206 of this Part shall be used to calculate emission limitations for determining compliance
 1276 by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.)
 1277 The emission limitations are as follows:

1278

a)	Automobile or Light-Duty Truck Coating	kg/l	lb/gal
	1) <u>Prior to May 1, 2011:</u>		
	<u>A1)</u> Prime coat	0.14	(1.2)
		0.14*	(1.2)*
	<u>B2)</u> Primer surface coat	1.81	(15.1)
		1.81*	(15.1)*

1280

1281 BOARD NOTE:(~~Note:~~ The primer surface coat limitation is in units of kg
 1282 (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the
 1283 limitation shall be based on the daily-weighted average from an entire
 1284 primer surface operation. Compliance shall be demonstrated in
 1285 accordance with the topcoat protocol referenced in Section
 1286 219.105(b)(1)(A) and the recordkeeping and reporting requirements
 1287 specified in Section 219.211(f). Testing to demonstrate compliance shall
 1288 be performed in accordance with the topcoat protocol and a detailed
 1289 testing proposal approved by the Agency and USEPA specifying the
 1290 method of demonstrating compliance with the protocol. Section 219.205
 1291 does not apply to the primer surface limitation.)
 1292

C3) Topcoat	kg/l	lb/gal
	1.81	(15.1)
	1.81*	(15.1)*

1293
 1294 BOARD NOTE:(~~Note:~~ The topcoat limitation is in units of kg (lbs) of
 1295 VOM per 1 (gal) of coating solids deposited. Compliance with the
 1296 limitation shall be based on the daily-weighted average from an entire
 1297 topcoat operation. Compliance shall be demonstrated in accordance with
 1298 the topcoat protocol referenced in Section 219.105(b)(1)(A) of this Part
 1299 and the recordkeeping and reporting requirements specified in Section
 1300 219.211(f). Testing to demonstrate compliance shall be performed in
 1301 accordance with the topcoat protocol and a detailed testing proposal
 1302 approved by the Agency and USEPA specifying the method of
 1303 demonstrating compliance with the protocol. Section 219.205 of this Part
 1304 does not apply to the topcoat limitation.)
 1305

D4) Final repair coat	kg/l	lb/gal
	0.58	(4.8)
	0.58*	(4.8)*

1306
 1307 2) On and after May 1, 2011, subject automobile and light-duty truck coating
 1308 lines shall comply with the following limitations. These limitations shall
 1309 not apply to materials supplied in containers with a net volume of 0.47
 1310 liters (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less:

1311
 1312 A) Electrodeposition primer (EDP) operations. For purposes of this
 1313 subsection (a)(2)(A), "electrodeposition" means a water-borne dip
 1314 coating process in which opposite electrical charges are applied to
 1315 the substrate and the coating. The coating is attracted to the
 1316 substrate due to the electrochemical potential difference that is
 1317 created.

	<u>kg VOM/l</u> <u>coating</u> <u>solids</u> <u>applied</u>	<u>lb VOM/gal</u> <u>coating solids</u> <u>applied</u>
i) <u>When solids turnover ratio (R_T) is greater than or equal to 0.160</u>	0.084	(0.7)
ii) <u>When R_T is greater than or equal to 0.040 and less than 0.160</u>	$\frac{0.084}{350^{0.160-R_T}}$	$\frac{(0.084 \times 350^{0.160-R_T})}{x 8.34}$
 B) <u>Primer surfacer operations</u>		
	<u>kg VOM/l</u> <u>coating</u> <u>solids</u> <u>deposited</u>	<u>lb VOM/gal</u> <u>coating solids</u> <u>deposited</u>
i) <u>VOM content limitation</u>	1.44	(12.0)
ii) <u>Compliance with the limitation set forth in subsection (a)(2)(B)(i) 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 219.105(b)(1)(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 surfacer limitation.</u>		
 C) <u>Topcoat operations</u>		
	<u>kg VOM/l</u> <u>coating</u> <u>solids</u> <u>deposited</u>	<u>lb VOM/gal</u> <u>coating solids</u> <u>deposited</u>
i) <u>VOM content limitation</u>	1.44	(12.0)

ii) Compliance with the limitation set forth in subsection (a)(2)(C)(i) 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)(1)(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 topcoat limitation.

D) Combined primer surfacer and topcoat operations

	<u>kg VOM/l coating solids deposited</u>	<u>lb VOM/gal coating solids deposited</u>
i) <u>VOM content limitation</u>	1.44	(12.0)
ii) <u>Compliance with the limitation set forth in subsection (a)(2)(D)(i) shall be based on the daily-weighted average from the combined primer surfacer and topcoat operations. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b)(1)(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 combined primer surfacer and topcoat limitation.</u>		

E) Final repair coat operations

	<u>kg/l coatings</u>	<u>lb/gal coatings</u>
i) <u>VOM content limitation</u>	0.58	(4.8)
ii) <u>Compliance with the final repair operations limitation set forth in subsection (a)(2)(E)(i) shall be on an occurrence-weighted average basis, calculated in accordance with the</u>		

equation below, in which clear coatings shall have a weighting factor of 2 and all other coatings shall have a weighting factor of 1.

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

where:

VOM_{to} = Total VOM content of all coatings, as applied, on an occurrence weighted average basis, and used to determine compliance with this subsection (a)(2)(E).

i = Subscript denoting a specific coating applied.

n = Total number of coatings applied in the final repair operation, other than clear coatings.

VOM_c = The VOM content, as applied, of the clear coat used in the final repair operation.

VOM_i = The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

F) Miscellaneous Materials. For reactive adhesives subject to this subsection (a)(2)(F), compliance shall be demonstrated in accordance with the methods and procedures set forth in Appendix A to Subpart PPPP of 40 CFR 63, incorporated by reference in Section 219.112 of this Part.

	<u>kg/l</u>	<u>lb/gal</u>
<u>i) Glass bonding primer</u>	<u>0.90</u>	<u>(7.51)</u>
<u>ii) Adhesive</u>	<u>0.25</u>	<u>(2.09)</u>
<u>iii) Cavity wax</u>	<u>0.65</u>	<u>(5.42)</u>
<u>iv) Trunk sealer</u>	<u>0.65</u>	<u>(5.42)</u>
<u>v) Deadener</u>	<u>0.65</u>	<u>(5.42)</u>

vi)	<u>Gasket/gasket sealing material</u>	<u>0.20</u>	<u>(1.67)</u>
vii)	<u>Underbody coating</u>	<u>0.65</u>	<u>(5.42)</u>
viii)	<u>Trunk interior coating</u>	<u>0.65</u>	<u>(5.42)</u>
ix)	<u>Bedliner</u>	<u>0.20</u>	<u>(1.67)</u>
x)	<u>Weatherstrip adhesive</u>	<u>0.75</u>	<u>(6.26)</u>
xi)	<u>Lubricating wax/compound</u>	<u>0.70</u>	<u>(5.84)</u>

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

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c)	Paper Coating	kg/l	lb/gal
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0.35 (2.9)
0.28* (2.3)*

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1334 BOARD NOTE(Note: The paper coating limitation shall not apply to any owner
1335 or operator of any paper coating line on which flexographic or rotogravure
1336 printing is performed if the paper coating line complies with the emissions
1337 limitations in Section 219.401 of this Part. In addition, screen printing on paper is
1338 not regulated as paper coating, but is regulated under Subpart TT of this Part.)
1339

		kg/l	lb/gal
	d) Coil Coating	0.31 0.20*	(2.6) (1.7)*
1340	e) Fabric Coating	0.35 0.28*	(2.9) (2.3)*
1341	f) Vinyl Coating	0.45 0.28*	(3.8) (2.3)*
1342	g) Metal Furniture Coating		
	1) Air dried	0.36 0.34*	(3.0) (2.8)*
	2) Baked	0.36 0.28*	(3.0) (2.3)*
1343	h) Large Appliance Coating		
	1) Air dried	0.34 0.34*	(2.8) (2.8)*
	2) Baked	0.34 0.28*	(2.8) (2.3)*

1344
1345 BOARD NOTE(Note: The limitation shall not apply to the use of quick-drying
1346 lacquers for repair of scratches and nicks that occur during assembly, provided
1347 that the volume of coating does not exceed 0.95 l (1 quart) in any one rolling
1348 eight-hour period.)
1349

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

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		0.20*	(1.7)*
j)	<u>Prior to May 1, 2011: Miscellaneous Metal Parts and Products Coating</u>		
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 Dried	0.42	(3.5)
		0.40*	(3.3)*
B)	Baked	0.36	(3.0)
		0.34*	(2.8)*
5)	Metallic Coating		
A)	Air dried Dried	0.42	(3.5)
		0.42*	(3.5)*
B)	Baked	0.36	(3.0)
		0.36	(3.0)*
6)	For purposes of subsection 219.204(j)(5) of this Section, "metallic coating" means a coating which contains more than ¼ lb/gal of metal particles, as applied.		

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BOARD NOTE: On and after May 1, 2011, the limitations in Section 219.204(q) shall apply to this category of coating.

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
		0.42*	(3.5)*

- | | | | |
|----|---|---------------|-----------------|
| 2) | Extreme performance topcoat (air dried) | 0.42
0.42* | (3.5)
(3.5)* |
| 3) | Final repair coat (air dried) | 0.42
0.42* | (3.5)
(3.5)* |
| 4) | All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (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) |

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BOARD NOTE: (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 (e1)(2)(A) through (E), below:

kg VOM/kg solids	lb VOM/lb solids
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- 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(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) |
- 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 (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 (e1)(2)(A) or (B) of this Section and utilizing one or more continuous coaters, shall for each continuous coater, use an initial coating which complies with the limitations of subsection (1)(2)(A) or (B) of this Section. The viscosity of the coating in each reservoir shall always be greater than or equal to the viscosity of the initial coating in the reservoir. The owner or operator shall:
 - i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;
 - ii) Collect and record the reservoir viscosity and the amount and weight of VOM per weight of solids of coating and solvent each time coating or solvent is added; and
 - iii) Maintain these records at the source for a period of three years.

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m) Prior to May 1, 2011: Plastic Parts Coating:
Automotive/Transportation

1)	Interiors		kg/l	lb/gal
	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)*

BOARD NOTE: On and after May 1, 2011, the limitations in Section 219.204(q) shall apply to this category of coating.

n)	<u>Prior to May 1, 2011:</u> 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)*

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3)	Color coat (texture coat)	0.28*	(2.3)*
4)	Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings	0.48*	(4.0)*
5)	Specialty Coatings		
A)	Soft coat	0.52*	(4.3)*
B)	Plating resist	0.71*	(5.9)*
C)	Plating sensitizer	0.85*	(7.1)*

BOARD NOTE: On and after May 1, 2011, the limitations in Section 219.204(q) shall apply to this category of coating.

q) Miscellaneous Metal Parts and Products Coatings and Plastic Parts and Products Coatings On and After May 1, 2011. On and after May 1, 2011, the owner or operator of a miscellaneous metal or plastic parts coating line shall comply with the limitations in this subsection (q). The limitations in this subsection (q) shall not apply to aerosol coating products or powder coatings.

1) Metal Parts and Products. For purposes of this subsection (q)(1), "corrosion resistant basecoat" means a water-borne epoxy coating applied via an electrodeposition process to a metal surface prior to spray coating, for the purpose of enhancing corrosion resistance. Also for purposes of subsection (q)(1), "marine engine coating" means any extreme performance protective, decorative, or functional coating applied to an engine that is used to propel watercraft. The limitations in subsection (q)(1) shall not apply to stencil coats, safety-indicating coatings, solid-film lubricants, electric-insulating and thermal-conducting coatings, magnetic data storage disk coatings, and plastic extruded onto metal parts to form a coating. The limitations in Section 219.219, however, shall apply to these coatings unless specifically excluded in Section 219.219.

<u>kg VOM/l</u>	<u>lb VOM/gal</u>
<u>coating</u>	<u>coating</u>
<u>solids</u>	<u>solids</u>
<u>applied</u>	<u>applied</u>

A) General one component coating

i) <u>Air dried</u>	<u>0.34</u>	<u>0.54</u>
	<u>(2.8)</u>	<u>(4.52)</u>

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ii) <u>Baked</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
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B) General multi-component coating

i) <u>Air dried</u>	<u>0.34</u> <u>(2.8)</u>	<u>0.54</u> <u>(4.52)</u>
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ii) <u>Baked</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
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<u>C) Camouflage coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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<u>D) Electric-insulating varnish</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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<u>E) Etching filler</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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F) Extreme high-gloss coating

i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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ii) <u>Baked</u>	<u>0.36</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.06)</u>
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G) Extreme performance coating

i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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ii) <u>Baked</u>	<u>0.36</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.06)</u>
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H) Heat-resistant coating

i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
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ii) <u>Baked</u>	<u>0.36</u>	<u>0.61</u>
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		<u>(3.0)</u>	<u>(5.06)</u>
I)	<u>High performance architectural coating</u>	<u>0.74</u> <u>(6.2)</u>	<u>4.56</u> <u>(38.0)</u>
J)	<u>High temperature coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
K)	<u>Metallic coating</u>		
	i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
	ii) <u>Baked</u>	<u>0.36</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.06)</u>
L)	<u>Military specification coating</u>		
	i) <u>Air dried</u>	<u>0.34</u> <u>(2.8)</u>	<u>0.54</u> <u>(4.52)</u>
	ii) <u>Baked</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
M)	<u>Mold-seal coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
N)	<u>Pan backing coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
O)	<u>Prefabricated architectural coating: multi-component</u>		
	i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
	ii) <u>Baked</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
P)	<u>Prefabricated architectural coating: one-component</u>		
	i) <u>Air dried</u>	<u>0.42</u>	<u>0.80</u>

		<u>(3.5)</u>	<u>(6.67)</u>
	ii) <u>Baked</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
Q)	<u>Pretreatment coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
R)	<u>Repair coats and touch-up coatings</u>		
	i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	
	ii) <u>Baked</u>	<u>0.36</u> <u>(3.01)</u>	
S)	<u>Silicone release coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
T)	<u>Solar-absorbent coating</u>		
	i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
	ii) <u>Baked</u>	<u>0.36</u> <u>(3.0)</u>	<u>0.61</u> <u>(5.06)</u>
U)	<u>Vacuum-metalizing coating</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
V)	<u>Drum coating, new, exterior</u>	<u>0.34</u> <u>(2.8)</u>	<u>0.54</u> <u>(4.52)</u>
W)	<u>Drum coating, new, interior</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
X)	<u>Drum coating, reconditioned, exterior</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
Y)	<u>Drum coating, reconditioned, interior</u>	<u>0.50</u> <u>(4.2)</u>	<u>1.17</u> <u>(9.78)</u>
Z)	<u>Steel pail and drum interior coating</u>	<u>0.52</u>	<u>1.24</u>

(4.3) (10.34)

AA) Marine engine coating

i) <u>Air dried</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
ii) <u>Baked: primer/topcoat</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
iii) <u>Baked: corrosion resistant basecoat</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(3.35)</u>
iv) <u>Clear coating</u>	<u>0.52</u> <u>(4.3)</u>	<u>1.24</u> <u>(10.34)</u>

BB) All other coatings

i) <u>Air dried</u>	<u>0.40</u> <u>(3.3)</u>	<u>0.73</u> <u>(5.98)</u>
ii) <u>Baked: primer/topcoat</u>	<u>0.34</u> <u>(2.8)</u>	<u>0.54</u> <u>(4.52)</u>

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2) Plastic Parts and Products: Miscellaneous. For purposes of this subsection (q)(2), miscellaneous plastic parts and products are plastic parts and products that are not subject to subsection (q)(3), (q)(4), (q)(5), or (q)(6) of this Section. The limitations in subsection (q)(2) shall not apply to touch-up and repair coatings; stencil coats applied on clear or transparent substrates; clear or translucent coatings; coatings applied at a paint manufacturing facility while conducting performance tests on the coatings; any individual coating category used in volumes less than 189.2 liters (50 gallons) in any one calendar year, if the total usage of all such coatings does not exceed 756.9 liters (200 gallons) per calendar year per source and substitute compliant coatings are not available; reflective coatings applied to highway cones; mask coatings that are less than 0.5 mm thick (dried) if the area coated is less than 25 square inches; electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings; and heparin-benzalkonium chloride (HBAC)-containing coatings applied to medical devices if the total usage of all such coatings does not exceed 378.4 liters (100 gallons) per calendar year per source. The limitations in Section 219.219, however, shall apply to such coatings unless specifically excluded in Section 219.219.)

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

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3) Plastic Parts and Products
Automotive/Transportation

	<u>kg/l</u> <u>(lb/gal)</u> <u>coatings</u>	<u>kg/l</u> <u>(lb/gal)</u> <u>solids</u>
<u>A) High bake coatings – interior and exterior parts</u>		
i) <u>Flexible primer</u>	<u>0.54</u> <u>(4.5)</u>	<u>1.39</u> <u>(11.58)</u>
ii) <u>Non-flexible primer</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
iii) <u>Basecoats</u>	<u>0.52</u> <u>(4.3)</u>	<u>1.24</u> <u>(10.34)</u>
iv) <u>Clear coat</u>	<u>0.48</u> <u>(4.0)</u>	<u>1.05</u> <u>(8.76)</u>
v) <u>Non-basecoat/clear coat</u>	<u>0.52</u> <u>(4.3)</u>	<u>1.24</u> <u>(10.34)</u>
<u>B) Low bake/air dried coatings – exterior parts</u>		
i) <u>Primers</u>	<u>0.58</u> <u>(4.8)</u>	<u>1.66</u> <u>(13.80)</u>
ii) <u>Basecoat</u>	<u>0.60</u> <u>(5.0)</u>	<u>1.87</u> <u>(15.59)</u>
iii) <u>Clear coats</u>	<u>0.54</u> <u>(4.5)</u>	<u>1.39</u> <u>(11.58)</u>
iv) <u>Non-basecoat/clear coat</u>	<u>0.60</u> <u>(5.0)</u>	<u>1.87</u> <u>(15.59)</u>
<u>C) Low bake/air dried coatings – interior parts</u>		
i) <u>Color coat</u>	<u>0.38</u> <u>(3.2)</u>	<u>0.67</u> <u>(5.66)</u>

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ii) <u>Primer</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.67)</u>
D) <u>Touchup and repair coatings</u>	<u>0.62</u> <u>(5.2)</u>	<u>2.13</u> <u>(17.72)</u>
E) <u>Specialty</u>		
i) <u>Vacuum metallizing basecoats, texture basecoats</u>	<u>0.66</u> <u>(5.5)</u>	<u>2.62</u> <u>(21.8)</u>
ii) <u>Reflective argent coatings, air bag cover coatings, and soft coatings</u>	<u>0.71</u> <u>(5.9)</u>	<u>3.64</u> <u>(29.7)</u>
iii) <u>Gloss reducers, vacuum metallizing topcoats, and texture topcoats</u>	<u>0.77</u> <u>(6.4)</u>	<u>6.06</u> <u>(49.1)</u>
iv) <u>Stencil coats, adhesion primers, ink pad coatings, electrostatic prep coats, and resist coats</u>	<u>0.82</u> <u>(6.8)</u>	<u>(11.67)</u> <u>(89.4)</u>
v) <u>Head lamp lens coating</u>	<u>0.89</u> <u>(7.4)</u>	

F) Red, yellow, and black coatings Subject coating lines shall comply with a limit determined by multiplying the appropriate limit in subsections (q)(3)(A) through (q)(3)(E) of this Section by 1.15.

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4) Plastic Parts and Products: Business Machine. The limitations of this subsection (q)(4) shall not apply to vacuum metallizing coatings, gloss reducers, texture topcoats, adhesion primers, electrostatic preparation coatings, stencil coats, and resist coats other than plating resist coats. The limitations in Section 219.219, however, shall apply to such coatings unless specifically excluded in Section 219.219.

	<u>kg/l</u> <u>(lb/gal)</u> <u>coatings</u>	<u>kg/l</u> <u>(lb/gal)</u> <u>solids</u>
A) <u>Primers</u>	<u>0.14</u>	<u>0.17</u>

		<u>(1.2)</u>	<u>(1.4)</u>
B)	<u>Topcoat</u>	<u>0.35</u> <u>(2.9)</u>	<u>0.57</u> <u>(4.80)</u>
C)	<u>Color coat (texture coat)</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(4.80)</u>
D)	<u>Color coat (non-texture coat)</u>	<u>0.28</u> <u>(2.3)</u>	<u>0.40</u> <u>(4.80)</u>
E)	<u>Texture coats other than color texture coats</u>	<u>0.35</u> <u>(2.9)</u>	<u>0.57</u> <u>(4.80)</u>
F)	<u>EMI/RFI shielding coatings</u>	<u>0.48</u> <u>(4.0)</u>	<u>1.05</u> <u>(8.76)</u>
G)	<u>Fog coat</u>	<u>0.26</u> <u>(2.2)</u>	<u>0.38</u> <u>(3.14)</u>
H)	<u>Touchup and repair</u>	<u>0.35</u> <u>(2.9)</u>	<u>0.57</u> <u>(4.80)</u>
I)	<u>Specialty coatings</u>		
	i) <u>Soft coat</u>	<u>0.52</u> <u>(4.3)</u>	<u>1.24</u> <u>(10.34)</u>
	ii) <u>Plating resist</u>	<u>0.71</u> <u>(5.9)</u>	<u>3.64</u> <u>(29.7)</u>
	iii) <u>Plating sensitizer</u>	<u>0.85</u> <u>(7.1)</u>	<u>(23.4)</u> <u>(201.0)</u>

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5) Pleasure Craft Surface Coatings

		<u>kg/l</u> <u>(lb/gal)</u> <u>coatings</u>	<u>kg/l</u> <u>(lb/gal)</u> <u>solids</u>
A)	<u>Extreme high gloss coating – topcoat</u>	<u>0.49</u> <u>(4.1)</u>	<u>1.10</u> <u>(9.2)</u>
B)	<u>High gloss coating – topcoat</u>	<u>0.42</u>	<u>0.80</u>

		<u>(3.5)</u>	<u>(6.7)</u>
C)	<u>Pretreatment wash primer</u>	<u>0.78</u> <u>(6.5)</u>	<u>6.67</u> <u>(55.6)</u>
D)	<u>Finish primer surfacer</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>
E)	<u>High build primer/surfacer</u>	<u>0.34</u> <u>(2.8)</u>	<u>0.55</u> <u>(4.6)</u>
F)	<u>Aluminum substrate antifoulant coating</u>	<u>0.56</u> <u>(4.7)</u>	<u>1.53</u> <u>(12.8)</u>
G)	<u>Other substrate antifoulant coating</u>	<u>0.33</u> <u>(2.8)</u>	<u>0.53</u> <u>(4.4)</u>
H)	<u>All other pleasure craft surface coatings for metal or plastic</u>	<u>0.42</u> <u>(3.5)</u>	<u>0.80</u> <u>(6.7)</u>

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6) Motor Vehicle Materials

		<u>kg/l</u> <u>(lb/gal)</u> <u>coatings</u>
A)	<u>Cavity wax</u>	<u>0.65</u> <u>(5.42)</u>
B)	<u>Sealer</u>	<u>0.65</u> <u>(5.42)</u>
C)	<u>Deadener</u>	<u>0.65</u> <u>(5.42)</u>
D)	<u>Gasket/gasket sealing material</u>	<u>0.20</u> <u>(1.67)</u>
E)	<u>Underbody coating</u>	<u>0.65</u> <u>(5.42)</u>
F)	<u>Trunk interior coating</u>	<u>0.65</u> <u>(5.42)</u>

G)	<u>Bedliner</u>	0.20 (1.67)
H)	<u>Lubricating wax/compound</u>	0.70 (5.84)

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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), ~~(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), (a)(1)(D)(4), ~~(a)(2)(A), (a)(2)(E), (a)(2)(F)~~, (c), (d), (e), (f), or (i) 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) ~~Prior to May 1, 2011, no~~ No owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 219.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(j) of this Subpart during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(j) of this Subpart, during the same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

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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.

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

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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 1/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:

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

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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 0.882kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_i = Volume of each surface coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- L_i = The VOM emission limitation for each surface coating applied as specified in Section 219.204(b) of this Subpart in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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- d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 219.204(k) of this Subpart shall apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(k) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(k) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP

1518 revision. To receive approval, the requirements of USEPA's Emissions
 1519 Trading Policy Statement (and related policy) 51 Fed. Reg. 43814
 1520 (December 4, 1986), must be satisfied.
 1521

1522 e) No owner or operator of a wood furniture coating line subject to the limitations of
 1523 Section 219.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood
 1524 furniture on the subject coating line unless the requirements of subsection (e)(1)
 1525 or (e)(2) of this Section, in addition to the requirements specified in the note to
 1526 Section 219.204(l)(1) of this Subpart, are met.
 1527

1528 1) For each coating line which applies multiple coatings, all of which are
 1529 subject to the same numerical emission limitation within Section
 1530 219.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all
 1531 coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-
 1532 weighted average VOM content shall not exceed the coating VOM content
 1533 limit corresponding to the category of coating used; or
 1534

1535 2) For each coating line which applies coatings subject to more than one
 1536 numerical emission limitation in Section 219.204(l)(1) or (l)(3) of this
 1537 Subpart, during the same day, the owner or operator shall have a site
 1538 specific proposal approved by the Agency and approved by the USEPA as
 1539 a SIP revision. To receive approval, the requirements of USEPA's
 1540 Emissions Trading Policy Statement (and related policy) 51 Fed. Reg.
 1541 43814 (December 4, 1986), must be satisfied.
 1542

1543 f) Prior to May 1, 2011, no owner or operator of a plastic parts coating line
 1544 subject to the limitations of Section 219.204(m) or (n) of this Subpart shall apply
 1545 coatings to business machine or automotive/transportation plastic parts on the
 1546 subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this
 1547 Section are met.
 1548

1549 1) For each coating line which applies multiple coatings, all of which are
 1550 subject to the same numerical emission limitation within Section
 1551 219.204(m) or (n) of this Subpart, during the same day (e.g., all coatings
 1552 used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted
 1553 average VOM content shall not exceed the coating VOM content limit
 1554 corresponding to the category of coating used; or
 1555

1556 2) For each coating line which applies coatings subject to more than one
 1557 numerical emission limitation in Section 219.204(m) or (n) of this
 1558 Subpart, during the same day, the owner or operator shall have a site
 1559 specific proposal approved by the Agency and USEPA as a SIP revision.
 1560 To receive approval, the requirements of USEPA's Emissions Trading

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Policy Statement (and related policy) must be satisfied.

- g) No owner or operator of a metal furniture coating line subject to the limitations of Section 219.204(g) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(g) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(g) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

- h) No owner or operator of a large appliance coating line subject to the limitations of Section 219.204(h) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (h)(1) or (h)(2) of this Section are met.
 - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(h) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or
 - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

- i) On and after May 1, 2011, no owner or operator of a miscellaneous metal parts and products coating line, plastic parts or products coating line, pleasure craft surface coating line, or motor vehicle materials coating line subject to the limitations of Section 219.204(q) of this Subpart shall apply coatings on the

1603 subject coating line unless the requirements of subsection (i)(1) or (i)(2) of this
 1604 Section are met:

- 1605
- 1606 1) For each coating line that applies multiple coatings, all of which are
 1607 subject to the same numerical emission limitation within Section
 1608 219.204(q) of this Subpart, during the same day (e.g., all coatings used on
 1609 the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average
 1610 VOM content shall not exceed the coating VOM content limit
 1611 corresponding to the category of coating used; or
- 1612
- 1613 2) For each coating line that applies coatings subject to more than one
 1614 numerical emission limitation in Section 219.204(q) of this Subpart,
 1615 during the same day, the owner or operator shall have a site specific
 1616 proposal approved by the Agency and approved by USEPA as a SIP
 1617 revision. To receive approval, the requirements of USEPA's Emissions
 1618 Trading Policy Statement (and related policy) must be satisfied.

1619
 1620 (Source: Amended at 34 Ill. Reg. _____, effective _____)

1621

1622 **Section 219.207 Alternative Emission Limitations**

- 1623
- 1624 a) Any owner or operator of a coating line subject to Section 219.204 of this
 1625 Subpart, except coating lines subject to Section 219.204(q)(6), may comply with
 1626 this Section, rather than with Section 219.204 of this Subpart, if a capture system
 1627 and control device are operated at all times the coating line is in operation and the
 1628 owner or operator demonstrates compliance with subsection (c), (d), (e), (f), (g),
 1629 (h), (i), ~~(j)~~, or (k) of this Section (depending upon the source category) through
 1630 the applicable coating analysis and capture system and control device efficiency
 1631 test methods and procedures specified in Section 219.105 of this Part and the
 1632 recordkeeping and reporting requirements specified in Section 219.211(e) of this
 1633 Subpart; and the control device is equipped with the applicable monitoring
 1634 equipment specified in Section 219.105(d) of this Part and the monitoring
 1635 equipment is installed, calibrated, operated and maintained according to vendor
 1636 specifications at all times the control device is in use. A capture system and
 1637 control device, which does not demonstrate compliance with subsection (c), (d),
 1638 (e), (f), (g), (h), (i), (j), or (k) of this Section may be used as an alternative to
 1639 compliance with Section 219.204 of this Subpart only if the alternative is
 1640 approved by the Agency and approved by the USEPA as a SIP revision.
- 1641
- 1642 b) Alternative Add-On Control Methodologies
- 1643
- 1644 1) The coating line is equipped with a capture system and control device that
 1645 provides 81 percent reduction in the overall emissions of VOM from the

- 1646 coating line and the control device has a 90 percent efficiency, or
 1647
 1648 2) The system used to control VOM from the coating line is demonstrated to
 1649 have an overall efficiency sufficient to limit VOM emissions to no more
 1650 than what is allowed under Section 219.204 of this Subpart. Use of any
 1651 control system other than an afterburner, carbon adsorption, condensation,
 1652 or absorption scrubber system can be allowed only if approved by the
 1653 Agency and approved by the USEPA as a SIP revision. The use of transfer
 1654 efficiency credits can be allowed only if approved by the Agency and
 1655 approved by the USEPA as a SIP revision. Baseline transfer efficiencies
 1656 and transfer efficiency test methods must be approved by the Agency and
 1657 the USEPA. Such overall efficiency is to be determined as follows:
 1658
 1659 A) Obtain the emission limitation from the appropriate subsection in
 1660 Section 219.204 of this Subpart;
 1661
 1662 B) Unless complying with an emission limitation in Section 219.204
 1663 that is already expressed in terms of weight of VOM per volume of
 1664 solids, calculate~~Calculate~~ "S" according to the equation in Section
 1665 219.206 of this Subpart;
 1666
 1667 C) Calculate the overall efficiency required according to Section
 1668 219.105(e) of this Part. For the purposes of calculating this value,
 1669 according to the equation in Section 219.105(e)(2) of this Part,
 1670 VOM_1 is equal to the value of "S" as determined above in
 1671 subsection (b)(2)(B) of this Section. If the coating line is
 1672 complying with an emission limitation in Section 219.204 of this
 1673 Subpart that is already expressed in terms of weight of VOM per
 1674 volume of solids, VOM_1 is equal to that emission limitation.
 1675
 1676 c) No owner or operator of a coating line subject to only one of the emission
 1677 limitations from among Section 219.204(a)(1)(A), (a)(1)(D)(4),
 1678 (a)(2)(A), (a)(2)(E), (a)(2)(F), (c), (d), (e), (f) or (i) of this Subpart and equipped
 1679 with a capture system and control device shall operate the subject coating line
 1680 unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. No
 1681 owner or operator of a coating line subject to Section 219.204(a)(1)(B), (2) or
 1682 (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(3) of this Part and equipped with a
 1683 capture system and control device shall operate the coating line unless the owner
 1684 or operator demonstrates compliance with such limitation in accordance with the
 1685 topcoat protocol referenced in Section 219.105(b)(1)(A) or (b)(1)(B) of this Part,
 1686 as applicable.
 1687
 1688 d) No owner or operator of a miscellaneous metal parts and products coating line

1689 ~~that~~which applies one or more coatings during the same day, all of which are
 1690 subject to the same numerical emission limitation within Section 219.204(j) of
 1691 this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 ({3.5
 1692 lbs/gal)}), and ~~that~~which is equipped with a capture system and control device
 1693 shall operate the subject coating line unless the requirements in subsection (b)(1)
 1694 or (b)(2) of this Section are met.

1695
 1696 e) No owner or operator of a heavy off-highway vehicle products coating line
 1697 ~~that~~which applies one or more coatings during the same day, all of which are
 1698 subject to the same numerical emission limitation within Section 219.204(k) of
 1699 this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 ({3.5
 1700 lbs/gal)}), and ~~that~~which is equipped with a capture system and control device
 1701 shall operate the subject coating line unless the requirements in subsection (b)(1)
 1702 or (b)(2) of this Section are met.

1703
 1704 f) No owner or operator of a wood furniture coating line ~~that~~which applies one or
 1705 more coatings during the same day, all of which are subject to the same numerical
 1706 emission limitation within Section 219.204(l) of this Subpart (e.g., all coatings
 1707 used on the line are subject to 0.67 kg/1 ({5.6 lbs/gal)}), and ~~that~~which is equipped
 1708 with a capture system and control device shall operate the subject coating line
 1709 unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. If
 1710 compliance is achieved by meeting the requirements in subsection (b)(2) of this
 1711 Section, then the provisions in the note to Section 219.204(l) of this Subpart must
 1712 also be met.

1713
 1714 g) No owner or operator of a can coating line equipped with a capture system and
 1715 control device shall operate the subject coating line unless the requirements in
 1716 subsection (g)(1) or (g)(2) of this Section are met.

1717
 1718 1) An alternative daily emission limitation for the can coating operation, i.e.,
 1719 for all of the can coating lines at the source, shall be determined according
 1720 to Section 219.205(c)(2) of this Subpart. Actual daily emissions shall
 1721 never exceed the alternative daily emission limitation and shall be
 1722 calculated by use of the following equation:

1723
 1724
$$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$$

1725 where:

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

i = Subscript denoting the specific coating applied;

1726
 1727

- 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/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.

i) 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/l ({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) 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/l ({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.

1754
1755 k) On and after May 1, 2011, no owner or operator of a miscellaneous metal parts
1756 and products coating line, plastic parts and products coating line, or pleasure craft
1757 surface coating line that is equipped with a capture system and control device
1758 shall operate the subject coating line unless:

1759
1760 1) The capture system and control device provide at least 90 percent
1761 reduction in the overall emissions of VOM from the coating line; or

1762
1763 2) The owner or operator of the coating line complies with all requirements
1764 set forth in subsection (b)(2) of this Section.

1765
1766 (Source: Amended at 34 Ill. Reg. _____, effective _____)

1767
1768 **Section 219.208 Exemptions From Emission Limitations**

1769
1770 a) Exemptions for all coating categories except wood furniture coating. The
1771 limitations of this Subpart shall not apply to coating lines within a source, that
1772 otherwise would be subject to the same subsection of Section 219.204 (because
1773 they belong to the same coating category, e.g., can coating), provided that
1774 combined actual emissions of VOM from all lines at the source subject to that
1775 subsection never exceed 6.8 kg/day (15 lbs/day) before the application of capture
1776 systems and control devices. (For example, can coating lines within a source
1777 would not be subject to the limitations of Section 219.204(b) of this Subpart if the
1778 combined actual emissions of VOM from the can coating lines never exceed 6.8
1779 kg/day (15 lbs/day) before the application of capture systems and control
1780 devices.) Prior to May 2011, volatile~~volatile~~ organic material emissions from
1781 heavy off-highway vehicle products coating lines must be combined with VOM
1782 emissions from miscellaneous metal parts and products coating lines to determine
1783 applicability. On and after May 1, 2011, VOM emissions from heavy off-
1784 highway vehicle products coating lines shall be combined with VOM emissions
1785 from miscellaneous metal parts and products coating lines and plastic parts and
1786 products coating lines to determine applicability. Any owner or operator of a
1787 coating source shall comply with the applicable coating analysis test methods and
1788 procedures specified in Section 219.105(a) of this Part and the recordkeeping and
1789 reporting requirements specified in Section 219.211(a) of this Subpart if total
1790 VOM emissions from the subject coating lines are always less than or equal to 6.8
1791 kg/day (15 lbs/day) before the application of capture systems and control devices
1792 and, therefore, are not subject to the limitations of Section 219.204 of this
1793 Subpart. Once a category of coating lines at a source is subject to the limitations
1794 in Section 219.204 of this Part the coating lines are always subject to the
1795 limitations in Section 219.204 of this Subpart.

1796

- 1797 b) Applicability for wood furniture coating
 1798
 1799 1) The limitations of this Subpart shall apply to a source's wood furniture
 1800 coating lines if the source contains process emission units, not regulated
 1801 by Subparts B, E, F (excluding Section 219.204(l) of this Subpart), H
 1802 (excluding Section 219.405 of this Part), Q, R, S, T (excluding Section
 1803 219.486 of this Part), V, X, Y, Z or BB of this Part, which as a group both:
 1804
 1805 A) Have a maximum theoretical emissions of 91 Mg (100 tons) or
 1806 more per calendar year of VOM if no air pollution control
 1807 equipment were used, and
 1808
 1809 B) Are not limited to less than 91 Mg (100 tons) of VOM per calendar
 1810 year if no air pollution control equipment were used, through
 1811 production or capacity limitations contained in a federally
 1812 enforceable permit or SIP revision.
 1813
 1814 2) The limitations of this Subpart shall apply to a source's wood furniture
 1815 coating lines, on and after March 15, 1996, if the source contains process
 1816 emission units, which as a group, have a potential to emit 22.7 Mg (25
 1817 tons) or more of VOM per calendar year and have not limited emissions to
 1818 less than 22.7 Mg (25 tons) of VOM per calendar year through production
 1819 or capacity limitations contained in a federally enforceable operating
 1820 permit or SIP revision, and ~~that~~which:
 1821
 1822 A) Are not regulated by Subparts B, E, F (excluding Section
 1823 219.204(l) of this Subpart), H, Q, R, S, T (excluding Section
 1824 219.486 of this Part), V, X, Y, Z or BB of this Part; and
 1825
 1826 B) Are not included in any of the following categories: synthetic
 1827 organic chemical manufacturing industry (SOCMI) distillation,
 1828 SOCMI reactors, plastic parts coating (business machines), plastic
 1829 parts coating (other), offset lithography, industrial wastewater,
 1830 autobody refinishing, SOCMI batch processing, volatile organic
 1831 liquid storage tanks and clean-up solvents operations.
 1832
 1833 3) If a source ceases to fulfill the criteria of subsection (b)(1) or (b)(2) of this
 1834 Section, the limitations of Section 219.204(l) of this Subpart shall continue
 1835 to apply to any wood furniture coating line which was ever subject to the
 1836 limitations of Section 219.204(l) of this Subpart.
 1837
 1838 4) For the purposes of subsection (b) of this Section, an emission unit shall
 1839 be considered to be regulated by a Subpart if it is subject to the limitations

1840 of that Subpart. An emission unit is not considered regulated by a Subpart
 1841 if it is not subject to the limits of that Subpart, e.g., the emission unit is
 1842 covered by an exemption in the Subpart or the applicability criteria of the
 1843 Subpart are not met.

1844
 1845 5) Any owner or operator of a wood furniture coating line to which the
 1846 limitations of this Subpart are not applicable due to the criteria in
 1847 subsection (b) of this Section shall, upon request by the Agency or the
 1848 USEPA, submit records to the Agency and the USEPA within 30 calendar
 1849 days from the date of the request that document that the coating line is
 1850 exempt from the limitations of this Subpart.

1851
 1852 c) On and after March 15, 1996, the limitations of this Subpart shall not apply to
 1853 touch-up and repair coatings used by a coating source described by subsections
 1854 219.204(b), (d), (f), (g), and (i), (j), (m) and (n) of this Subpart; provided that the
 1855 source-wide volume of such coatings used does not exceed 0.95 l (1 quart) per
 1856 eight-hour period or exceed 209 l/yr (55 gal/yr) for any rolling twelve month
 1857 period. Recordkeeping and reporting for touch-up and repair coatings shall be
 1858 consistent with subsection (d) of this Section.

1859
 1860 d) Prior to May 1, 2011, the limitations of this Subpart shall not apply to touch-up
 1861 and repair coatings used by a coating source described by subsections 219.204(j),
 1862 (m), and (n) of this Subpart, provided that the source-wide volume of the coatings
 1863 used does not exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr (55
 1864 gal/yr) for any rolling twelve month period. Recordkeeping and reporting for
 1865 touch-up and repair coatings shall be consistent with subsection (e) of this
 1866 Section.

1867
 1868 ed) On and after March 15, 1996, the owner or operator of a coating line or a group of
 1869 coating lines using touch-up and repair coatings that are exempted from the
 1870 limitations of Section 219.204(b), (d), (f), (g), (i), (j), (m) and (n) of this Subpart
 1871 because of the provisions of Section 219.208(c) or (d) of this Subpart shall:

1872
 1873 1) Collect and record the name, identification number, and volume used of
 1874 each touch-up and repair coating, as applied on each coating line, per
 1875 eight-hour period and per month;

1876
 1877 2) Perform calculations on a daily basis, and maintain at the source records
 1878 of such calculations of the combined volume of touch-up and repair
 1879 coatings used source-wide for each eight-hour period;

1880
 1881 3) Perform calculations on a monthly basis, and maintain at the source
 1882 records of such calculations of the combined volume of touch-up and

- 1883 repair coatings used source-wide for the month and the rolling twelve
 1884 month period;
 1885
 1886 4) Prepare and maintain at the source an annual summary of the information
 1887 required to be compiled pursuant to subsections (e)(1) and (e)(2) of this
 1888 Section on or before January 31 of the following year;
 1889
 1890 5) Maintain at the source for a minimum period of three years all records
 1891 required to be kept under this subsection and make such records available
 1892 to the Agency upon request;
 1893
 1894 6) Notify the Agency in writing if the use of touch-up and repair coatings at
 1895 the source ever exceeds a volume of 0.95 ~~L~~ (1 quart) per eight-hour
 1896 period or exceeds 209 l/yr (55 gal/yr) for any rolling twelve month period
 1897 within 30 days after any such exceedance. Such notification shall include
 1898 a copy of any records of such exceedance; and
 1899
 1900 7) "Touch-up and repair coatings" means, for purposes of 35 Ill. Adm. Code
 1901 219.208, any coating used to cover minor scratches and nicks that occur
 1902 during manufacturing and assembly processes.
 1903

1904 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 1905

1906 **Section 219.210 Compliance Schedule**
 1907

1908 Every owner or operator of a coating line (of a type included within Section 219.204 of this
 1909 Subpart) shall comply with the requirements of Section 219.204, 219.205, 219.207 or 219.208
 1910 and Section 219.211 or Sections 219.212 and 219.213 of this Subpart in accordance with the
 1911 appropriate compliance schedule as specified in subsection (a), (b), (c), (d), (e), ~~or (f), or (g)~~
 1912 below:
 1913

- 1914 a) No owner or operator of a coating line ~~that~~ which is exempt from the limitations of
 1915 Section 219.204 of this Subpart because of the criteria in Section 219.208(a) or
 1916 (b) of this Subpart shall operate said coating line on or after a date consistent with
 1917 Section 219.106 of this Part, unless the owner or operator has complied with, and
 1918 continues to comply with, Section 219.211(b) of this Subpart.
 1919
 1920 b) No owner or operator of a coating line complying by means of Section 219.204 of
 1921 this Subpart shall operate said coating line on or after a date consistent with
 1922 Section 219.106 of this Part, unless the owner or operator has complied with, and
 1923 continues to comply with, Sections 219.204 and 219.211(c) of this Subpart.
 1924
 1925 c) No owner or operator of a coating line complying by means of Section 219.205 of

1926 this Subpart shall operate said coating line on or after a date consistent with
 1927 Section 219.106 of this Part, unless the owner or operator has complied with, and
 1928 continues to comply with, Sections 219.205 and 219.211(d) of this Subpart.
 1929

1930 d) No owner or operator of a coating line complying by means of Section 219.207 of
 1931 this Subpart shall operate said coating line on or after a date consistent with
 1932 Section 219.106 of this Part, unless the owner or operator has complied with, and
 1933 continues to comply with, Sections 219.207 and 219.211(e) of this Subpart.
 1934

1935 e) No owner or operator of a coating line subject to one or more of the emission
 1936 limitations contained in Section 219.204 of this Subpart on or after March 15,
 1937 1996, choosing to comply by means of Section 219.204, 219.205 or 219.207 of
 1938 this Subpart, shall operate said coating line on or after March 15, 1996, unless the
 1939 owner or operator complies with and continues to comply with, respectively, the
 1940 applicable requirements in Section 219.204, or the alternative control options in
 1941 Sections 219.205 or 219.207 and the requirements of Section 219.211.
 1942

1943 f) No owner or operator of a coating line subject to one or more of the emission
 1944 limitations contained in Section 219.204 of this Subpart on or after March 15,
 1945 1996, choosing to comply by means of Section 219.212 of this Subpart, shall
 1946 operate said coating line on or after March 15, 1996, unless the owner or operator
 1947 complies with and continues to comply with the requirements of Sections 219.212
 1948 and 219.213 of this Subpart.
 1949

1950 g) No owner or operator of a coating line subject to the emission limitations in
 1951 Section 219.204(a)(2) or (q) of this Subpart, or subject to the limitations in
 1952 Section 219.219 of this Subpart, shall operate the coating line on or after a date
 1953 consistent with Section 219.106(c) of this Part, unless the owner or operator has
 1954 complied with, and continues to comply with, Section 219.204(a)(2) or (q), if
 1955 applicable, or the alternative control options in Section 219.205 or 219.207, and
 1956 all applicable requirements in Sections 219.211 and 219.219 of this Subpart.
 1957

1958 (Source: Amended at 34 Ill. Reg. _____, effective _____)
 1959

1960 **Section 219.211 Recordkeeping and Reporting**
 1961

1962 a) The VOM content of each coating and the efficiency of each capture system and
 1963 control device shall be determined by the applicable test methods and procedures
 1964 specified in Section 219.105 of this Part to establish the records required under
 1965 this Section.
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b) Any owner or operator of a coating line ~~that~~which is exempt 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 ~~that~~which demonstrate that the combined VOM emissions from the coating line and all other coating lines in the same category never exceed 6.8 kg (15 lbs) per day before the application of capture systems and control devices. The following equation shall be used to calculate total VOM emissions:

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

where:

T_e = Total VOM emissions from coating lines each day before 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 ~~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 219.208(b) of this Subpart, by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the source is exempt under the provisions of Section 219.208(b) of this Subpart. Such certification shall include:
 - A) A declaration that the source is exempt from the limitations of Section 219.204(l) of this Subpart because of Section 219.208(b) of this Subpart; and
 - B) Calculations ~~that~~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 (b) 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 ~~that~~which are specifically exempted from the definition of VOM) as applied each day on each coating line.

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- 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 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)(1)(B), (2) and (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(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

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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 as applied on each coating line;
- B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line; ~~and~~
- C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line;:-
- D) For coating lines subject to the limitations of Section 219.204(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line, and the solids turnover ratio of the EDP operation, with supporting calculations;
- E) For coating lines subject to the limitations of Section 219.204(a)(2)(E), the weight of VOM per volume of each coating as applied each day on each coating line, calculated on an occurrence weighted average basis;
- F) For coating lines subject to the limitations of Section 219.204(q) of this Subpart, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line;

2) On and after a date consistent with Section 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, unless otherwise specified, for each coating line and maintain the information at the source for a period of three years:

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

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- 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;-
 - E) For coating lines subject to the limitations of Section 219.204(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line, certified product data sheets for each coating, and the solid turnover ratio for the EDP operation, calculated on a calendar monthly basis, with supporting calculations;
 - F) For coating lines subject to the limitations of Section 219.204(a)(2)(E), the weight of VOM per volume of each coating as applied each day on each coating line, calculated on an occurrence weighted average basis, and certified product data sheets for each coating;
 - G) For coating lines subject to the limitations of Section 219.204(q) of this Subpart, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line, and certified product data sheets for each coating;
- 3) On and after a date consistent with Section 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. TheSuch 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(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line.

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

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- 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(a)(2)(A) of this Subpart, the weight of VOM per volume of solids in each coating as applied each day on each coating line.
 - E) For coating lines subject to the limitations of Section 219.204(q) of this Subpart, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as applicable, as applied each day on each coating line.
 - FD) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 219.104 of this Part.

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- 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), ~~or (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.

- 2279 B) Control device monitoring data.
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 2281 C) A log of operating time for the capture system, control device,
 2282 monitoring equipment and the associated coating line.
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 2284 D) A maintenance log for the capture system, control device and
 2285 monitoring equipment detailing all routine and non-routine
 2286 maintenance performed including dates and duration of any
 2287 outages.
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 2289 3) On and after a date consistent with Section 219.106 of this Part, the owner
 2290 or operator of a subject coating line shall notify the Agency in the
 2291 following instances:
 2292
 2293 A) Any record showing violation of Section 219.207 of this Subpart
 2294 shall be reported by sending a copy of such record to the Agency
 2295 within 30 days following the occurrence of the violation.
 2296
 2297 B) At least 30 calendar days before changing the method of
 2298 compliance with this Subpart from Section 219.207 to Section
 2299 219.204 or Section 219.205 of this Subpart, the owner or operator
 2300 shall comply with all requirements of subsection (c)(1) or (d)(1) of
 2301 this Section, respectively. Upon changing the method of
 2302 compliance with this Subpart ~~Part~~ from Section 219.207 to Section
 2303 219.204 or Section 219.205 of this Subpart, the owner or operator
 2304 shall comply with all requirements of subsection (c) or (d) of this
 2305 Section, respectively.
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 2307 f) Any owner or operator of a primer surfacer operation or topcoat operation, or
 2308 combined primer surfacer and topcoat operation, subject to the limitations of
 2309 Section 219.204(a)(1)(B), ~~(2)~~ or (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(3) of
 2310 this Subpart shall comply with the following:
 2311
 2312 1) By a date consistent with Section 219.106 of this Part, or upon initial start-
 2313 up of a new coating operation, the owner or operator of a subject coating
 2314 operation shall certify to the Agency that the operation will be in
 2315 compliance with Section 219.204 of this Subpart on and after a date
 2316 consistent with Section 219.106 of this Part, or on and after the initial
 2317 start-up date. ~~The Such~~ certification shall include:
 2318
 2319 A) The name and identification number of each coating operation
 2320 which will comply by means of Section 219.204(a)(1)(B), ~~(2)~~ and
 2321 (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(3) of this Subpart and

- 2322 the name and identification number of each coating line in each
 2323 coating operation.
 2324
 2325 B) The name and identification number of each coating as applied on
 2326 each coating line in the coating operation.
 2327
 2328 C) The weight of VOM per volume of each coating (minus water and
 2329 any compounds which are specifically exempted from the
 2330 definition of VOM) as applied each day on each coating line.
 2331
 2332 D) The transfer efficiency and control efficiency measured for each
 2333 coating line.
 2334
 2335 E) Test reports, including raw data and calculations documenting the
 2336 testing performed to measure transfer efficiency and control
 2337 efficiency.
 2338
 2339 F) The instrument or method by which the owner or operator will
 2340 accurately measure or calculate the volume of each coating as
 2341 applied each day on each coating line.
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 2343 G) The method by which the owner or operator will create and
 2344 maintain records each day as required in subsection (f)(2)-below.
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 2346 H) An example format for presenting the records required in
 2347 subsection (f)(2)-below.
 2348
 2349 2) On and after a date consistent with Section 219.106 of this Part, or on and
 2350 after the initial start-up date, the owner or operator of a subject coating
 2351 operation shall collect and record all of the following information each
 2352 day for each topcoat or primer surfacer coating operation and maintain the
 2353 information at the source for a period of three years:
 2354
 2355 A) All information necessary to calculate the daily-weighted average
 2356 VOM emissions from the coating operations in kg (lbs) per 1 (gal)
 2357 of coating solids deposited in accordance with the proposal
 2358 submitted, and approved pursuant to Section 219.204(a)(1)(B), (2)
 2359 ~~or (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(3)~~ of this Subpart
 2360 including:
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 2362 i) The name and identification number of each coating as
 2363 applied on each coating operation.
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- 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)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) ~~(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)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) ~~(a)(2) or (a)(3)~~ of this Subpart shall be reported by sending a copy of such record to the Agency within 15 days from the end of the month in which the violation occurred.
 - B) The owner or operator shall notify the Agency of any change to the operation at least 30 days before the change is effected. The Agency shall determine whether or not compliance testing is required. If the Agency determines that compliance testing is required, then the owner or operator shall submit a testing proposal to the Agency within 30 days and test within 30 days of the approval of the proposal by the Agency and USEPA.
 - g) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, whichever is later, the owner or operator of a coating line

2407 subject to the requirements of Section 219.219 of this Subpart shall comply with
 2408 the following:

- 2409
- 2410 1) By May 1, 2011, or upon initial start-up, whichever is later, submit a
 2411 certification to the Agency that includes:
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- 2413 A) A description of the practices and procedures that the source will
 2414 follow to ensure compliance with the applicable requirements in
 2415 Section 219.219 of this Subpart;
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- 2417 B) For sources subject to Section 219.219(a)(6), the work practices
 2418 plan specified in that Section;
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- 2420 C) For sources subject to Section 219.219(b)(6), the application
 2421 methods used to apply coatings on the subject coating line;
- 2422
- 2423 2) Notify the Agency of any violation of Section 219.219 of this Subpart by
 2424 providing a description of the violation and copies of records documenting
 2425 the violation to the Agency within 30 days following the occurrence of the
 2426 violation; and
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- 2428 3) Maintain at the source all records required by this subsection (g) for a
 2429 minimum of three years from the date the document was created and make
 2430 those records available to the Agency upon request.

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2432 (Source: Amended at 34 Ill. Reg. _____, effective _____)

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2434 **Section 219.212 Cross-Line Averaging to Establish Compliance for Coating Lines**

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- 2436 a) On and after March 15, 1996, any owner or operator of a coating line subject to
 2437 the limitations set forth in Section 219.204 of this Subpart, except coating lines
 2438 subject to the limitations in Section 219.204(a)(2) or (q) of this Subpart, and with
 2439 coating lines in operation prior to January 1, 1991 ("pre-existing coating lines"),
 2440 may, for pre-existing coating lines only, elect to comply with the requirements of
 2441 this Section, rather than complying with the applicable emission limitations set
 2442 forth in Section 219.204, if an operational change of the type described below has
 2443 been made after January 1, 1991, to one or more pre-existing coating lines at the
 2444 source. An operational change occurs when a pre-existing coating line is replaced
 2445 with a line using lower VOM coating for the same purpose as the replaced line
 2446 ("replacement line"). A source electing to rely on this Section to demonstrate
 2447 compliance with the requirements of this Subpart shall operate pursuant to
 2448 federally enforceable permit conditions approved by the Agency and USEPA.
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- 2450 b) An owner or operator of pre-existing coating lines subject to a VOM content
 2451 limitation in Section 219.204 of this Subpart and electing to rely on this Section to
 2452 demonstrate compliance with this Subpart must establish, by use of the equations
 2453 in subsection (d) of this Section, that the calculated actual daily VOM emissions
 2454 from all participating coating lines, as defined in this subsection below, are less
 2455 than the calculated daily allowable VOM emissions from the same group of
 2456 coating lines. For any pre-existing coating line to be aggregated for the purposes
 2457 of Section 219.212, 219.213, or 219.214 of this Subpart ("participating coating
 2458 lines"), the source must establish that:
- 2459
- 2460 1) All coatings applied on the participating coating line shall, at all times,
 2461 have a VOM content less than or equal to the applicable VOM content
 2462 limitation for such coating listed in Appendix H of this Part; and
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 - 2464 2) On the date the source elects to rely on this Section to demonstrate
 2465 compliance with this Subpart, all coatings applied on the participating
 2466 coating line are not already in compliance with the VOM content
 2467 limitation for such coating effective on or after March 15, 1996; or the
 2468 participating coating line is a replacement line, as defined in subsection (a)
 2469 of this Section with an operational change occurring on or after January 1,
 2470 1991.
- 2471
- 2472 c) Notwithstanding subsection (a) of this Section, any owner or operator of a coating
 2473 line subject to the limitations set forth in Section 219.204 of this Subpart and
 2474 electing to rely on this Section to demonstrate compliance with this Subpart, may
 2475 also include as a participating coating line, until December 31, 1999, only, any
 2476 replacement line that satisfies all of the following conditions:
- 2477
- 2478 1) The replacement line is operated as a powder coating line;
 - 2479 2) The replacement line was added after July 1, 1988; and
 - 2480 3) The owner or operator also includes as a participating coating line one or
 2481 more coating lines that satisfy the criteria of a replacement line, as
 2482 described in subsection (a) of this Section.
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- 2485
- 2486 d) To demonstrate compliance with this Section, a source shall establish the
 2487 following:
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- 2489 1) An alternative daily emission limitation shall be determined for all
 2490 participating coating lines at the source according to subsection (d)(2) of
 2491 this Section. All participating coating lines shall be factored in each day
 2492 to demonstrate compliance. Provided compliance is established pursuant

2493 to the requirements in this subsection, nothing in this Section requires
 2494 daily operation of each participating line. Actual daily emissions from all
 2495 participating coating lines (E_d) shall never exceed the alternative daily
 2496 emission limitation (A_d) and shall be calculated by use of the following
 2497 equation:
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2499
$$E_d = \sum_{i=1}^n V_i C_i$$

2500 where:
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 2502

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).

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 2504 2) The alternative daily emission limitation (A_d) shall be determined for all
 2505 participating coating lines at the source on a daily basis as follows:
 2506

2507
$$A_d = A_t + A_p$$

2508 where:
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A_t and A_p are defined in subsections (d)(a)(2)(A) and (d)(a)(2)(B) of this Section subsection.

2510
 2511 A) The portion of the alternative daily emissions limitation for
 2512 coating operations at a source using non-powder coating (A_t) shall
 2513 be determined for all such participating non-powder coating lines
 2514 on a daily basis as follows:
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$$A_i = \sum_{i=1}^n V_i L_i \frac{D_i - C_i}{D_i - L_i}$$

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where:

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

i = Subscript denoting a specific coating applied;

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

C_i = The VOM content of each coating as applied in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);

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

V_i = Volume of each coating applied for the day in units of 1 (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
and

L_i = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

2531

2532
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where:

- A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- h = Subscript denoting a specific powder coating line;
- j = Subscript denoting a specific powder coating applied;
- m = Total number of participating powder coating lines;
- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM);
- V_j = Volume of each powder coating consumed for the day in units of 1 (gal) of coating;
- L_j = The VOM emission limitation for each coating applied, as specified in Section 219.204 of this Subpart, in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
- K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained pursuant to the requirements of Section 219.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Tests methods and recordkeeping requirements shall be approved by the Agency and USEPA and contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
 - K cannot exceed 0.9 for non-recycled powder coating systems; or

- ii) K cannot exceed 2.0 for recycled powder coating systems.

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

Section 219.219 Work Practice Standards for Automobile and Light-Duty Truck Assembly Coatings and Miscellaneous Metal and Plastic Parts Coatings

- a) Every owner or operator of a coating line subject to the requirements of Section 219.204(a)(2) of this Subpart shall:
 - 1) Store all VOM-containing coatings, thinners, coating-related waste materials, cleaning materials, and used shop towels in closed containers;
 - 2) Ensure that mixing and storage containers used for VOM-containing coatings, thinners, and coating-related waste materials are kept closed at all times except when depositing or removing those materials;
 - 3) Minimize spills of VOM-containing coatings, thinners, and coating-related waste materials;
 - 4) Convey VOM-containing coatings, thinners, and coating-related waste materials from one location to another in closed containers or pipes;
 - 5) Minimize VOM emissions from cleaning of storage, mixing, and conveying equipment;
 - 6) Develop and implement a work practice plan to minimize VOM emissions from cleaning and from purging of equipment associated with coating lines subject to the limitations in Section 219.204(a)(2). The plan shall specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed in this subsection (a)(6) are minimized. If the owner or operator of the subject coating line has already implemented a work practice plan for the coating line pursuant to Subpart III of 40 CFR 63, incorporated by reference in Section 219.112 of this Part, the owner or operator may revise the plan as necessary to comply with this Section.
 - A) Vehicle body wiping;
 - B) Coating line purging;
 - C) Flushing of coating systems;

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- D) Cleaning of spray booth grates, walls, and equipment; and
- F) Cleaning of external spray booth areas.

b) Except as provided in subsection (c) of this Section, every owner or operator of a coating line described in Section 219.204(q) of this Subpart shall:

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

2618 coating process in which opposite electrical charges are applied to
2619 the substrate and the coating. The coating is attracted to the
2620 substrate due to the electrochemical potential difference that is
2621 created;

2622
2623 F) Airless spray;

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2625 G) Air-assisted airless spray; or

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2627 H) Another coating application method capable of achieving a transfer
2628 efficiency equal to or better than that achieved by HVLP spraying,
2629 if the method is approved in writing by the Agency.

2630
2631 c) Notwithstanding subsection (b) of this Section, the application method limitations
2632 in subsection (b)(6) shall not apply to the following:

2633
2634 1) Coating lines complying with Section 219.207(k)(1);

2635
2636 2) For metal parts and products coating operations: touch-up coatings, repair
2637 coatings, textured finishes, stencil coatings, safety-indicating coatings,
2638 solid-film lubricants, electric-insulating and thermal-conducting coatings,
2639 magnetic data storage disk coatings, and plastic extruded onto metal parts
2640 to form a coating;

2641
2642 3) For pleasure craft surface coating operations: extreme high gloss coatings;

2643
2644 4) For plastic parts and products coating operations: airbrush operations
2645 using 18.9 liters (5 gallons) or less of coating per year.

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2647 (Source: Added at 34 Ill. Reg. _____, effective _____)

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2649 SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS

2650
2651 Section 219.890 Applicability

2652
2653 a) Except as provided in subsection (b) of this Section, on and after May 1, 2011, the
2654 requirements of this Subpart shall apply to the owners or operators of sources that
2655 manufacture hulls or decks of boats from fiberglass, or that build molds to make
2656 hulls or decks of boats from fiberglass, and that emit 6.8 kg/day (15 lbs/day) or
2657 more of VOM, calculated in accordance with Section 219.894(a)(1)(B), from
2658 open molding resin and gel coat operations, resin and gel coat mixing operations,
2659 and resin and gel coat application equipment cleaning operations, in the absence
2660 of air pollution control equipment. If a source is subject to this Subpart based

2661 upon such criteria, the limitations of this Subpart shall apply to the manufacture of
 2662 all fiberglass boat parts at the source.

2663
 2664 b) Notwithstanding subsection (a) of this Section, the requirements of this Subpart
 2665 shall not apply to the following:

2666
 2667 1) Surface coatings applied to fiberglass boats;

2668
 2669 2) Industrial adhesives used in the assembly of fiberglass boats. Polyester
 2670 resin putties used to assemble fiberglass parts shall not be considered
 2671 industrial adhesives for purposes of this exclusion;

2672
 2673 3) Closed molding operations.

2674
 2675 c) If a source is or becomes subject to one or more of the limitations in this Subpart,
 2676 the source is always subject to the applicable provisions of this Subpart.

2677
 2678 d) The owner or operator of a source exempt from the limitations of this Subpart
 2679 because of the criteria in this Section is subject to the recordkeeping and reporting
 2680 requirements specified in Section 219.894(a) of this Subpart.

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 2682 (Source: Added at 34 Ill. Reg. _____, effective _____)

2683
 2684 **Section 219.891 Emission Limitations and Control Requirements**

2685
 2686 a) Except as provided in subsection (f) of this Section, no owner or operator of a
 2687 source subject to the requirements of this Subpart shall use a subject resin or gel
 2688 coat at the source unless the resin and gel coat comply with subsection (b)(1) or
 2689 (b)(2), (c), or (d) of this Section, as well as with subsections (e), (g), and (h) of
 2690 this Section. For sources complying pursuant to subsection (b) or (c) of this
 2691 Section, if the non-monomer VOM content of a resin or gel coat exceeds 5
 2692 percent, by weight, the excess non-monomer VOM shall be added to the
 2693 monomer VOM content of the resin or gel coat in accordance with the equation
 2694 below:

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 2696

$$\frac{\text{Weighted Average Monomer VOM Content}}{\text{Monomer VOM Content}} \equiv \frac{\sum_{i=1}^n M_i VOM_i + \sum_{i=1}^n M_i VOM_{nm} - \sum_{i=1}^n 0.05 * M_i}{\sum_{i=1}^n M_i + \sum_{i=1}^n M_i}$$

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where:

M_i = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams.

VOM_i = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation.

i = Subscript denoting a specific open molding resin or gel coat applied.

n = Number of different open molding resins or gel coats used in the past 12 months in an operation.

VOM_{nm} = Non-monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation.

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b) VOM Content Limitations

1) Except as provided in subsection (e) of this Section, the monomer VOM content of a subject resin or gel coat shall not exceed the following limitations:

	<u>Weighted average monomer VOM content (weight percent)</u>
A) <u>Production resin</u>	
i) <u>Atomized spray</u>	<u>28</u>
ii) <u>Non-atomized</u>	<u>35</u>
B) <u>Pigmented gel coat</u>	<u>33</u>
C) <u>Clear gel coat</u>	<u>48</u>
D) <u>Tooling resin</u>	

- i) Atomized 30
- ii) Non-atomized 39
- E) Tooling gel coat 40

2708
 2709 2) Except as provided in subsection (e) of this Section, the weighted average
 2710 monomer VOM content of a subject resin or gel coat shall not exceed the
 2711 applicable limitation set forth in subsection (b)(1) of this Section on a 12-
 2712 month rolling average basis. Equation 1 shall be used to determine the
 2713 weighted average monomer VOM content for resin and gel coat materials.

2714
 2715 Equation 1:
 2716

$$\frac{\text{Weighted Average Monomer VOM Content}}{\text{Content}} = \frac{\sum_{i=1}^n M_i VOM_i}{\sum_{i=1}^n M_i}$$

2717 where:

2718 \underline{M}_i = Mass of open molding resin or gel coat (i) used in the past
 2719 12 months in an operation, in megagrams;

\underline{VOM}_i = Monomer VOM content, by weight percent, of open
molding resin or gel coat (i) used in the past 12 months in
an operation;

\underline{n} = Number of different open molding resins or gel coats used
in the past 12 months in an operation.

2720
 2721 c) Emissions Averaging Alternative. The owner or operator of a source subject to
 2722 the requirements of this Subpart may elect to include some or all of the subject
 2723 resin and gel coat operations at the source in the emissions averaging alternative.
 2724 Resin and gel coat operations utilizing the emissions averaging alternative shall
 2725 comply with a source-specific monomer VOM mass emission limit on a 12-month
 2726 rolling average basis, calculated at the end of each calendar month. All subject
 2727 resin and gel coat operations that do not utilize the emissions averaging
 2728 alternative shall comply with the requirements in subsection (b) or (d) of this
 2729 Section, as well as with all other applicable requirements in this Section.

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- 1) The owner or operator of a source subject to this subsection (c) shall use Equation 2 to determine the source-specific monomer VOM mass emission limit for resin and gel coats included in the emissions average:

Equation 2:

$$\text{Monomer VOM Limit} \equiv \frac{46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})}{}$$

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where:

Monomer VOM Content \equiv Total allowable monomer VOM that can be emitted from the open molding operations included in the average, expressed in kilograms per 12-month period;

M_R \equiv Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in megagrams (Mg);

M_{PG} \equiv Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{CG} \equiv Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TR} \equiv Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;

M_{TG} \equiv Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg.

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The numerical coefficients associated with each term on the right hand side of Equation 2 are the allowable monomer VOM emission rates for that particular material in units of kg VOM/Mg of material used.

- 2) At the end of the first 12-month averaging period, and at the end of each subsequent month, the owner or operator of a source subject to this subsection (c) shall use Equation 3 to calculate the monomer VOM

2748 emissions from the resin and gel coat operations included in the emissions
 2749 average to determine whether the emissions exceed the limitation
 2750 calculated using Equation 2.

2751
 2752 Equation 3:

2753

$$\frac{\text{Monomer VOM Emissions}}{\text{Emissions}} = \frac{(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG}) + (PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})}{(PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})}$$

2754
 2755 where:
 2756

Monomer VOM Emissions \equiv Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in kg;

PV_R \equiv Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed in kg/Mg, calculated in accordance with Equation 4 in subsection (c)(3);

M_R \equiv Mass of production resin used in the past 12 months, expressed in Mg;

PV_{PG} \equiv Weighted-average monomer VOM emission rate for pigmented gel coat used in the past 12 months, expressed in kg/Mg, calculated pursuant to Equation 4;

M_{PG} \equiv Mass of pigmented gel coat used in the past 12 months, expressed in Mg;

PV_{CG} \equiv Weighted-average monomer VOM emission rate for clear gel coat used in the past 12 months, expressed in kg/Mg, calculated pursuant to Equation 4;

M_{CG} \equiv Mass of clear gel coat used in the past 12 months, expressed in Mg;

PV_{TR} \equiv Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in kg/Mg, calculated pursuant to Equation 4;

M_{TR} \equiv Mass of tooling resin used in the past 12 months,

expressed in Mg;

PV_{TG} \equiv Weighted-average monomer VOM emission rate for tooling gel coat used in the past 12 months, expressed in kg/Mg, calculated pursuant to Equation 4;

M_{TG} \equiv Mass of tooling gel coat used in the past 12 months, expressed in Mg.

2757
 2758 3) For purposes of Equation 3, the owner or operator of a source subject to
 2759 this subsection (c) shall use Equation 4 below to calculate the weighted-
 2760 average monomer VOM emission rate for the previous 12 months for each
 2761 resin and gel coat operation included in the emissions average, except as
 2762 provided in subsection (e) of this Section.

Equation 4:

$$PV_{OP} = \frac{\sum_{i=1}^n M_i PV_i}{\sum_{i=1}^n M_i}$$

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where:

PV_{OP} \equiv Weighted-average monomer VOM emission rate for each open molding operation (PV_R , PV_{PG} , PV_{CG} , PV_{TR} , and PV_{TG}) included in the average, expressed in kg of monomer VOM per Mg of material applied;

M_i \equiv Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in Mg;

n \equiv Number of different open molding resins and gel coats used within an operation in the past 12 months;

PV_i \equiv The monomer VOM emission rate for resin or gel coat (i) used within an operation in the past 12 months, expressed in kg of monomer VOM per Mg of material applied. The monomer VOM emission rate formulas in subsection (c)(4) of this Section shall be used to compute PV_i . If a source includes filled resins in the emissions average, the source shall use the value of PV_F , calculated using Equation 5 in

subsection (e)(3) of this Section, as the value of PV_i for those resins;

i \equiv Subscript denoting a specific open molding resin or gel coat applied.

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4) For purposes of Equation 4 and subsection (e)(3) of this Section, the following monomer VOM emission rate formulas shall apply:

A) Production resin, tooling resin:

i) Atomized: $0.014 \times (\text{Resin VOM}\%)^{2.425}$

ii) Atomized, plus vacuum bagging with roll-out: $0.01185 \times (\text{Resin VOM}\%)^{2.425}$

iii) Atomized, plus vacuum bagging without roll-out: $0.00945 \times (\text{Resin VOM}\%)^{2.425}$

iv) Nonatomized: $0.014 \times (\text{Resin VOM}\%)^{2.275}$

v) Nonatomized, plus vacuum bagging with roll-out: $0.0110 \times (\text{Resin VOM}\%)^{2.275}$

vi) Nonatomized, plus vacuum bagging without roll-out: $0.0076 \times (\text{Resin VOM}\%)^{2.275}$

B) Pigmented gel coat, clear gel coat, tooling gel coat: $0.445 \times (\text{Gel Coat VOM}\%)^{1.675}$.

d) Capture System and Control Device Requirements. No owner or operator of a source subject to the requirements of this Subpart that is utilizing a capture system and control device for a subject resin or gel coat operation shall conduct that operation unless the following requirements are satisfied:

1) An afterburner or carbon adsorber is installed and operated that meets the limitations set forth in this subsection (d). The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if that device complies with all limitations in this subsection (d), the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device, and the plan is approved by the Agency and USEPA within federally enforceable permit conditions;

- 2808
 2809 2) The VOM emissions at the outlet of the control device meet an emissions
 2810 limitation determined using Equation 2 in subsection (c)(1) of this Section.
 2811 In Equation 2, however, instead of using the mass of each material used
 2812 over the past 12 months to determine the emission limitation, the owner or
 2813 operator shall use the mass of each material used during the applicable
 2814 control device performance test;
 2815
 2816 3) The owner or operator complies with all testing and monitoring
 2817 requirements set forth in Section 219.892 of this Subpart.
 2818
 2819 e) Filled Resins. For all filled production and tooling resins, the owner or operator
 2820 of a source subject to this Subpart shall adjust the monomer VOM emission rates
 2821 determined pursuant to Section 219.891(b) and (c) of this Subpart using Equation
 2822 5 in subsection (e)(3). If complying pursuant to Section 219.891(b), the emission
 2823 rate determined using Equation 5 shall not exceed the limitations set forth in
 2824 subsections (e)(1) and (e)(2) of this Section. If the non-monomer VOM content
 2825 of a filled resin exceeds 5 percent, by weight, based on the unfilled resin, the
 2826 excess non-monomer VOM shall be added to the monomer VOM content in
 2827 accordance with the equation set forth in Section 219.891(a).
 2828
 2829 1) Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;
 2830
 2831 2) Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin
 2832 applied;
 2833
 2834 3) Equation 5:
 2835

$$PV_F = PV_U \times \frac{(100 - \% \text{ Filler})}{100}$$

2837
 2838 where:
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PV_F ≡ The as-applied monomer VOM emission rate for the filled
production resin or tooling resin, expressed in kg
monomer VOM per Mg of filled material;

PV_U ≡ The monomer VOM emission rate for the unfilled resin,
before filler is added, calculated using the formulas in
Section 219.891(b)(4) of this Subpart;

$\% \text{ Filler}$ ≡ The weight-percent of filler in the as-applied filled resin
system.

- 2840
 2841 f) The limitations in subsections (a) through (e) of this Section shall not apply to the
 2842 following materials. These materials shall instead comply with the applicable
 2843 requirements set forth in subsections (f)(1) through (f)(3).
 2844
 2845 1) Production resins, including skin coat resins, that must meet specifications
 2846 for use in military vessels or must be approved by the United States Coast
 2847 Guard for use in the construction of lifeboats, rescue boats, and other life-
 2848 saving appliances approved under 46 CFR Subchapter Q, incorporated by
 2849 reference in Section 219.112 of this Part, or for use in the construction of
 2850 small passenger vessels regulated by 40 CFR Subchapter T, incorporated
 2851 by reference in Section 219.112 of this Part. The owner or operator of a
 2852 source subject to this Subpart shall apply all such resins with
 2853 nonatomizing resin application equipment;
 2854
 2855 2) Production and tooling resins, and pigmented, clear, and tooling gel coats
 2856 used for part or mold repair and touch ups. These materials shall not
 2857 exceed 1 percent, by weight, of all resins and gel coats used at a subject
 2858 source on a 12-month rolling average basis;
 2859
 2860 3) Pure, 100 percent vinylester resins used for skin coats. The owner or
 2861 operator of a source subject to this Subpart shall apply these resins with
 2862 non-atomizing resin application equipment, and the total amount of the
 2863 resins shall not exceed 5 percent, by weight, of all resins used at the
 2864 subject source on a 12-month rolling-average basis.
 2865
 2866 g) No owner or operator of a source subject to this Subpart shall use VOM-
 2867 containing cleaning solutions to remove cured resins and gel coats from fiberglass
 2868 boat manufacturing application equipment. Additionally, no owner or operator
 2869 shall use VOM-containing cleaning solutions for routine cleaning of application
 2870 equipment unless:
 2871
 2872 1) The VOM content of the cleaning solution is less than or equal to 5
 2873 percent, by weight; or
 2874
 2875 2) The composite vapor pressure of the cleaning solution is less than or equal
 2876 to 0.50 mmHg at 68°F.
 2877
 2878 h) No owner or operator of a source subject to this Subpart shall use resin or gel coat
 2879 mixing containers with a capacity equal to or greater than 208 liters (55 gallons),
 2880 including those used for on-site mixing of putties and polyputties, unless such
 2881 containers have covers with no visible gaps in place at all times, except when

2882 material is being manually added to or removed from a container or when mixing
 2883 or pumping equipment is being placed in or removed from a container.

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 2885 (Source: Added at 34 Ill. Reg. _____, effective _____)
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2887 **Section 219.892 Testing and Monitoring Requirements**
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- 2889 a) Testing to demonstrate compliance with the requirements of Section 219.891 of
 2890 this Subpart shall be conducted by the owner or operator within 90 days after a
 2891 request by the Agency, or as otherwise specified in this Subpart. The testing shall
 2892 be conducted at the expense of the owner or operator and the owner or operator
 2893 shall notify the Agency in writing 30 days in advance of conducting the testing to
 2894 allow the Agency to be present during testing.
 2895
 2896 b) Testing to demonstrate compliance with the monomer VOM content limitations
 2897 for resin and gel coat materials in Section 219.891(b) of this Subpart shall be
 2898 conducted upon request of the Agency, or as otherwise specified in this Subpart,
 2899 in accordance with SCAQMD 312-91, incorporated by reference in Section
 2900 219.112 of this Part.
 2901
 2902 c) The owner or operator of a source complying with this Subpart pursuant to
 2903 Section 219.891(d) shall comply with the following:
 2904
 2905 1) By May 1, 2011, or upon initial start-up, whichever is later, and upon
 2906 start-up of a new control device, conduct an initial performance test of the
 2907 control device in accordance with this subsection (c) that demonstrates
 2908 compliance with the emission limitation determined pursuant to Section
 2909 219.891(d).
 2910
 2911 2) Subsequent to the initial performance test described in subsection (c)(1) of
 2912 this Section, conduct at least one performance test per calendar year.
 2913 Performance tests used to demonstrate compliance with Section
 2914 219.891(d) shall be conducted at least six months apart, unless the
 2915 performance test is being conducted following an exceedance of operating
 2916 parameters as described in subsection (c)(3) of this Section, or per a
 2917 request by the Agency.
 2918
 2919 3) Monitor and record relevant operating parameters, including the control
 2920 efficiency of the control device and the amount of materials used in the
 2921 fiberglass boat manufacturing process, during each control device
 2922 performance test used to demonstrate compliance with Section 219.891(d).
 2923 The owner or operator shall continue to operate the fiberglass boat
 2924 manufacturing process within the parameters until another performance

2925 test is conducted that demonstrates compliance with Section 219.891(d).
 2926 The owner or operator shall monitor the parameters at all times when the
 2927 control device is in operation. If the fiberglass boat manufacturing process
 2928 exceeds any operating parameter by more than 10 percent, the owner or
 2929 operator shall conduct additional performance testing in accordance with
 2930 this Section within 10 operating days after the exceedance;

2931
 2932 4) The methods and procedures of Section 219.105(d) and (f) shall be used
 2933 for testing to demonstrate compliance with the requirements of Section
 2934 219.891(d) of this Subpart, as follows:

2935
 2936 A) To select the sampling sites, Method 1 or 1A, as appropriate, 40
 2937 CFR 60, Appendix A, incorporated by reference at Section
 2938 219.112 of this Part. The sampling sites for determining efficiency
 2939 in reducing VOM from the dryer exhaust shall be located between
 2940 the dryer exhaust and the control device inlet, and between the
 2941 outlet of the control device and the exhaust to the atmosphere;

2942
 2943 B) To determine the volumetric flow rate of the exhaust stream,
 2944 Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A,
 2945 incorporated by reference at Section 219.112 of this Part;

2946
 2947 C) To determine the VOM concentration of the exhaust stream
 2948 entering and exiting the control device, Method 25 or 25A, as
 2949 appropriate, 40 CFR 60, Appendix A, incorporated by reference at
 2950 Section 219.112 of this Part. For thermal and catalytic
 2951 afterburners, Method 25 must be used except under the following
 2952 circumstances, in which case Method 25A must be used:

2953
 2954 i) The allowable outlet concentration of VOM from the
 2955 control device is less than 50 ppmv, as carbon;

2956
 2957 ii) The VOM concentration at the inlet of the control device
 2958 and the required level of control result in exhaust
 2959 concentrations of VOM of 50 ppmv, or less, as carbon; and

2960
 2961 iii) Due to the high efficiency of the control device, the
 2962 anticipated VOM concentration at the control device
 2963 exhaust is 50 ppmv or less, as carbon, regardless of inlet
 2964 concentration. If the source elects to use Method 25A
 2965 under this option, the exhaust VOM concentration must be
 2966 50 ppmv or less, as carbon, and the required destruction
 2967 efficiency must be met for the source to have demonstrated

2968 compliance. If the Method 25A test results show that the
 2969 required destruction efficiency apparently has been met, but
 2970 the exhaust concentration is above 50 ppmv, as carbon, a
 2971 retest is required. The retest shall be conducted using
 2972 either Method 25 or 25A. If the retest is conducted using
 2973 Method 25A and the test results again show that the
 2974 required destruction efficiency apparently has been met, but
 2975 the exhaust concentration is above 50 ppmv, as carbon, the
 2976 source must retest again using Method 25.

2977
 2978 D) Notwithstanding the criteria or requirements in Method 25, which
 2979 specifies a minimum probe temperature of 129°C (265°F), the
 2980 probe must be heated to at least the gas stream temperature of the
 2981 dryer exhaust, typically close to 176.7°C (350°F); and

2982
 2983 E) During testing, the fiberglass boat manufacturing operation shall
 2984 be operated at representative operating conditions and flow rates.

2985
 2986 5) If an afterburner or carbon adsorber is used to demonstrate compliance,
 2987 the owner or operator shall:

2988
 2989 A) Install, calibrate, operate, and maintain temperature monitoring
 2990 devices with an accuracy of 3°C or 5°F on the emissions control
 2991 system in accordance with Section 219.105(d)(2) of this Part and
 2992 in accordance with the manufacturer's specifications. Monitoring
 2993 shall be performed at all times when the emissions control system
 2994 is operating; and

2995
 2996 B) Install, calibrate, operate and maintain, in accordance with
 2997 manufacturer's specifications, a continuous recorder on the
 2998 temperature monitoring devices, such as a strip chart, recorder or
 2999 computer, with at least the same accuracy as the temperature
 3000 monitor.

3001
 3002 6) If an emissions control system other than an afterburner or carbon
 3003 adsorber is used to demonstrate compliance, the owner or operator shall
 3004 install, maintain, calibrate, and operate the monitoring equipment as set
 3005 forth in the owner's or operator's plan approved by the Agency and
 3006 USEPA pursuant to Section 219.891(d).

3007
 3008 d) Testing to demonstrate compliance with the VOM content limitations for cleaning
 3009 solutions in Section 219.891(g) of this Subpart, and with the non-monomer VOM
 3010 content limitations for resin and gel coat materials in Section 219.891(a) of this

3011 Subpart, shall be conducted upon request of the Agency, or as otherwise specified
3012 in this Subpart, as follows:

3013
3014 1) The applicable test methods and procedures specified in Section
3015 219.105(a) of this Part shall be used; provided, however, Method 24,
3016 incorporated by reference at Section 219.112 of this Part, shall be used to
3017 demonstrate compliance; or

3018
3019 2) For cleaning solvents, the manufacturer's specifications for VOM content
3020 may be used if the manufacturer's specifications are based on results of
3021 tests of the VOM content conducted in accordance with methods specified
3022 in Section 219.105(a) of this Part; provided, however, Method 24 shall be
3023 used to determine compliance.

3024
3025 e) The owner or operator of a source subject to this Subpart and relying on the VOM
3026 content of the cleaning solution to comply with Section 219.891(g)(1) of this
3027 Subpart shall:

3028
3029 1) For cleaning solutions that are prepared at the source with equipment that
3030 automatically mixes cleaning solvent and water (or other non-VOM):

3031
3032 A) Install, operate, maintain, and calibrate the automatic feed
3033 equipment in accordance with manufacturer's specifications to
3034 regulate the volume of each of the cleaning solvent and water (or
3035 other non-VOM), as mixed; and

3036
3037 B) Pre-set the automatic feed equipment so that the consumption rates
3038 of the cleaning solvent and water (or other non-VOM), as applied,
3039 comply with Section 219.891(g)(1);

3040
3041 2) For cleaning solutions that are not prepared at the source with automatic
3042 feed equipment, keep records of the usage of cleaning solvent and water
3043 (or other non-VOM) as set forth in Section 219.894(g) of this Subpart.

3044
3045 f) Testing to demonstrate compliance with the VOM composite partial vapor
3046 pressure limitation for cleaning solvents set forth in Section 219.891(g) of this
3047 Subpart shall be conducted in accordance with the applicable methods and
3048 procedures set forth in Section 219.110 of this Part.

3049
3050 (Source: Added at 34 Ill. Reg. _____, effective _____)

3051
3052 **Section 219.894 Recordkeeping and Reporting Requirements**

3053

- 3054 a) The owner or operator of a source exempt from the limitations of this Subpart
3055 because of the criteria in Section 219.890(a) of this Subpart shall:
3056
- 3057 1) By May 1, 2011, or upon initial start-up, whichever is later, submit a
3058 certification to the Agency that includes the following:
3059
- 3060 A) A declaration that the source is exempt from the requirements in
3061 this Subpart because of the criteria in Section 219.890(a);
3062
- 3063 B) Calculations that demonstrate that combined emissions of VOM
3064 from all subject fiberglass boat manufacturing operations
3065 (including solvents used for cleanup operations associated with the
3066 fiberglass boat manufacturing operation) at the source never equal
3067 or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution
3068 control equipment. To calculate daily emissions of VOM, the
3069 owner or operator shall determine the monthly emissions of VOM
3070 from fiberglass boat manufacturing operations at the source
3071 (including solvents used for cleanup operations associated with the
3072 fiberglass boat manufacturing operations) and divide the amount
3073 by the number of days during that calendar month that the
3074 fiberglass boat manufacturing operations were in operation;
3075
- 3076 2) Notify the Agency of any record that shows that the combined emissions
3077 of VOM from subject fiberglass boat manufacturing operations at the
3078 source, including related cleaning activities, ever equal or exceed 6.8
3079 kg/day (15 lbs/day), in the absence of air pollution control equipment,
3080 within 30 days after the event occurs, and provide copies of the record
3081 upon request by the Agency.
3082
- 3083 b) All sources subject to the requirements of this Subpart shall:
3084
- 3085 1) By May 1, 2011, or upon initial start-up of the source, whichever is later,
3086 and upon start-up of a new fiberglass boat manufacturing operation at the
3087 source, submit a certification to the Agency that includes:
3088
- 3089 A) Identification of each subject fiberglass boat manufacturing
3090 operation as of the date of certification;
3091
- 3092 B) A declaration that all subject fiberglass boat manufacturing
3093 operations, including related cleaning operations, are in
3094 compliance with the requirements of this Subpart;
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- C) The limitation with which each subject fiberglass boat manufacturing operation will comply (i.e., the VOM content limitation, the emissions averaging alternative, or the emissions control system alternative);
 - D) Initial documentation that each subject fiberglass boat manufacturing operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - E) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - F) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.891(h) of this Subpart;
 - G) A description of each fiberglass boat manufacturing operation exempt pursuant to Section 219.890(b) of this Subpart, if any;
 - H) A description of materials subject to Section 219.891(f) of this Subpart, if any, used in each fiberglass boat manufacturing operation;
- 2) At least 30 calendar days before changing the method of compliance in accordance with Section 219.891(b), (c), and (d), notify the Agency in writing of the change. The notification shall include a demonstration of compliance with the newly applicable subsection;
 - 3) Notify the Agency in writing of any violation of the requirements of this Subpart within 30 days following the occurrence of the violation and provide records documenting the violation upon request by the Agency;
 - 4) Retain all records required by this Section for at least three years and make those records available to the Agency upon request.
- c) The owner or operator of a fiberglass boat manufacturing operation subject to the limitations of Section 219.891 of this Subpart and complying by means of Section 219.891(b) 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 the name, identification number,

- 3138 and VOM content of each subject resin and gel coat as applied each day
3139 by each subject fiberglass boat manufacturing operation;
3140
3141 2) Collect and record the following information each day for each fiberglass
3142 boat manufacturing operation complying with Section 219.891(b):
3143
3144 A) The name, identification number, and VOM content of each
3145 subject resin and gel coat as applied each day by each fiberglass
3146 boat manufacturing operation; and
3147
3148 B) If complying with Section 219.891(b)(2), the daily weighted
3149 average VOM content of all subject resins and gel coats as applied
3150 by each subject fiberglass boat manufacturing operation.
3151
3152 d) The owner or operator of a fiberglass boat manufacturing operation subject to the
3153 requirements of Section 219.891 of this Subpart and complying by means of
3154 Section 219.891(c) shall:
3155
3156 1) On and after May 1, 2011, collect and record the following information
3157 each month:
3158
3159 A) The amount of production resin, pigmented gel coat, clear gel coat,
3160 tooling resin, and tooling gel coat used in each subject fiberglass
3161 boat manufacturing operation;
3162
3163 B) The VOM content of each production resin, pigmented gel coat,
3164 clear gel coat, tooling resin, and tooling gel coat used in each
3165 subject fiberglass boat manufacturing operation;
3166
3167 C) Total monthly VOM emissions for all subject fiberglass boat
3168 manufacturing operations;
3169
3170 2) At the end of the first 12-month averaging period, and at the end of each
3171 subsequent month, collect and record the following information:
3172
3173 A) The monomer VOM mass emission limit for all subject fiberglass
3174 boat manufacturing operations for the applicable 12-month
3175 averaging period, with supporting calculations;
3176
3177 B) The total actual emissions of VOM from all subject fiberglass boat
3178 manufacturing operations for the applicable 12-month averaging
3179 period.
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e) The owner or operator of a fiberglass boat manufacturing operation subject to the requirements of Section 219.891 of this Subpart and complying by means of Section 219.891(d) shall:

- 1) By May 1, 2011, or upon initial start-up, whichever is later, and upon start-up of a new control device, submit a certification to the Agency that includes the following:
 - A) The type of control device used to comply with the requirements of Section 219.891(d);
 - B) The results of all tests and calculations necessary to demonstrate compliance with the requirements of Section 219.891(d); and
 - C) A declaration that the monitoring equipment required under Section 219.892 of this Subpart has been properly installed and calibrated according to manufacturer's specifications;
- 2) Within 90 days after conducting testing pursuant to Section 219.892, submit to the Agency a copy of all test results, as well as a certification that includes the following:
 - A) A declaration that all tests and calculations necessary to demonstrate whether the fiberglass boat manufacturing operation is in compliance with Section 219.891(d) have been properly performed;
 - B) A statement whether the fiberglass boat manufacturing operations are or are not in compliance with Section 219.891(d);
 - C) The emissions limitation applicable during the control device performance test, with supporting calculations;
 - D) The operating parameters of the fiberglass boat manufacturing process during testing, as monitored in accordance with Section 219.892;
- 3) Collect and record daily the following information for each fiberglass boat manufacturing operation subject to the requirements of Section 219.891(d), and submit that information to the Agency upon request:
 - A) Afterburner or other approved control device monitoring data in accordance with Section 219.892 of this Subpart;

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- B) A log of operating time for the control device and monitoring equipment;
 - C) A maintenance log for the control device and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages;
 - D) Information to substantiate that the fiberglass boat manufacturing operation is operating in compliance with the parameters determined pursuant to Section 219.892.
- f) The owner or operator of a source subject to the requirements in Section 219.891(f) of this Subpart shall collect and record the following information for each fiberglass boat manufacturing operation:
- 1) The name and identification number of each material subject to Section 219.891(f) as applied each day by each subject fiberglass boat manufacturing operation;
 - 2) If subject to Section 219.891(f)(2), the amount of production and tooling resins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch-ups, used each month at the subject source, and the total amount of all resins and gel coats used each month at the subject source;
 - 3) If subject to Section 219.891(f)(3), the amount of pure, 100 percent vinylester resins used for skin coats each month at the subject source, and the total amount of all resins used each month at the subject source.
- g) The owner or operator of a source subject to the requirements of Section 219.891 of this Subpart shall collect and record the following information for each cleaning solution used in each fiberglass boat manufacturing operation:
- 1) For each cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.891(g) of this Subpart and that is prepared at the source with automatic equipment:
 - A) The name and identification of each cleaning solution;
 - B) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.892(d) of this Subpart;

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- C) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - D) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - E) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - F) A calibration log for the automatic equipment, detailing periodic checks;
- 2) For each batch of cleaning solution for which the owner or operator relies on the VOM content to demonstrate compliance with Section 219.891(g), and that is not prepared at the source with automatic equipment:
- A) The name and identification of each cleaning solution;
 - B) Date and time of preparation, and each subsequent modification, of the batch;
 - C) The VOM content of each cleaning solvent in the cleaning solution, as determined in accordance with Section 219.892(d);
 - D) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - E) The VOM content of the as-used cleaning solution, with supporting calculations;
- 3) For each batch of cleaning solution for which the owner or operator relies on the vapor pressure of the cleaning solution to demonstrate compliance with Section 219.891(g):
- A) The name and identification of each cleaning solution;
 - B) Date and time of preparation, and each subsequent modification, of the batch;

- 3308 C) The molecular weight, density, and VOM composite partial vapor
- 3309 pressure of each cleaning solvent, as determined in accordance
- 3310 with Section 219.892(f) of this Subpart;
- 3311
- 3312 D) The total amount of each cleaning solvent used to prepare the as-
- 3313 used cleaning solution; and
- 3314
- 3315 E) The VOM composite partial vapor pressure of each as-used
- 3316 cleaning solution, as determined in accordance with Section
- 3317 219.110 of this Part.
- 3318

3319 (Source: Added at 34 Ill. Reg. _____, effective _____)

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3321 SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

3322

3323 Section 219.900 Applicability

- 3324
- 3325 a) Except as provided in subsection (b) of this Section, on and after May 1, 2011, the
- 3326 requirements of this Subpart shall apply to miscellaneous industrial adhesive
- 3327 application operations at sources where the total actual VOM emissions from all
- 3328 such operations, including related cleaning activities, equal or exceed 6.8 kg/day
- 3329 (15 lbs/day), calculated in accordance with Section 219.904(a)(1)(B), in the
- 3330 absence of air pollution control equipment.
- 3331
- 3332 b) Notwithstanding subsection (a) of this Section:
- 3333
- 3334 1) The requirements of this Subpart shall not apply to miscellaneous
- 3335 industrial adhesive application operations associated with the following:
- 3336
- 3337 A) Aerospace coatings;
- 3338
- 3339 B) Metal furniture coatings;
- 3340
- 3341 C) Large appliance coatings;
- 3342
- 3343 D) Flat wood paneling coatings;
- 3344
- 3345 E) Paper, film, and foil coatings;
- 3346
- 3347 F) Lithographic printing;
- 3348
- 3349 G) Letterpress printing;
- 3350

- 3351 H) Flexible package printing;
3352
3353 I) Coil coating;
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3355 J) Fabric coating;
3356
3357 K) Rubber tire manufacturing.
3358
- 3359 2) The requirements of Section 219.901(b) through (e) of this Subpart shall
3360 not apply to the following:
3361
- 3362 A) Adhesives or adhesive primers being tested or evaluated in any
3363 research and development operation or quality assurance or
3364 analytical laboratory;
3365
- 3366 B) Adhesives or adhesive primers used in the assembly, repair, or
3367 manufacture of aerospace or undersea-based weapon systems;
3368
- 3369 C) Adhesives or adhesive primers used in medical equipment
3370 manufacturing operations;
3371
- 3372 D) Cyanoacrylate adhesive application operations;
3373
- 3374 E) Aerosol adhesive and aerosol adhesive primer application
3375 operations;
3376
- 3377 F) Operations using polyester bonding putties to assemble fiberglass
3378 parts at fiberglass boat manufacturing facilities and at other
3379 reinforced plastic composite manufacturing facilities;
3380
- 3381 G) Operations using adhesives and adhesive primers that are supplied
3382 to the manufacturer in containers with a net volume of 0.47 liters
3383 (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.
3384
- 3385 c) If a miscellaneous industrial adhesive application operation at a source is or
3386 becomes subject to one or more of the limitations in this Subpart, the
3387 miscellaneous industrial adhesive application operation is always subject to the
3388 applicable provisions of this Subpart.
3389
- 3390 d) The owner or operator of a source exempt from the emission limitations and
3391 control requirements of this Subpart because of the criteria in subsection (a) of
3392 this Section is subject to the recordkeeping and reporting requirements specified
3393 in Section 219.904(a) of this Subpart.

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

Section 219.901 Emission Limitations and Control Requirements

- a) The owner or operator of a source subject to the requirements of this Subpart shall comply with the limitations in subsection (b), (c), or (d) of this Section, as well as with the limitations in subsections (e) and (f) of this Section. Notwithstanding this requirement, sources subject to Section 219.900(b)(2) shall comply with the limitations in subsection (f) of this Section only.
- b) The owner or operator of adhesive application operations listed in this subsection (b) shall comply with the following VOM emission limitations. If an adhesive is used to bond dissimilar substrates together, the substrate category with the highest VOM emission limitation shall apply:

		<u>kg VOM/l adhesive or adhesive primer applied</u>	<u>lb VOM/gal adhesive or adhesive primer applied</u>
1)	<u>General adhesive application operations</u>		
	A) <u>Reinforced plastic composite</u>	<u>0.200</u>	<u>(1.7)</u>
	B) <u>Flexible vinyl</u>	<u>0.250</u>	<u>(2.1)</u>
	C) <u>Metal</u>	<u>0.030</u>	<u>(0.3)</u>
	D) <u>Porous material (except wood)</u>	<u>0.120</u>	<u>(1.0)</u>
	E) <u>Rubber</u>	<u>0.250</u>	<u>(2.1)</u>
	F) <u>Wood</u>	<u>0.030</u>	<u>(0.3)</u>
	G) <u>Other substrates</u>	<u>0.250</u>	<u>(2.1)</u>
2)	<u>Specialty adhesive application operations</u>		
	A) <u>Ceramic tile installation</u>	<u>0.130</u>	<u>(1.1)</u>
	B) <u>Contact adhesive</u>	<u>0.250</u>	<u>(2.1)</u>
	C) <u>Cove base installation</u>	<u>0.150</u>	<u>(1.3)</u>

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D)	<u>Indoor floor covering installation</u>	<u>0.150</u>	<u>(1.3)</u>
E)	<u>Outdoor floor covering installation</u>	<u>0.250</u>	<u>(2.1)</u>
F)	<u>Installation of perimeter bonded sheet flooring</u>	<u>0.660</u>	<u>(5.5)</u>
G)	<u>Metal to urethane/rubber molding or casting</u>	<u>0.850</u>	<u>(7.1)</u>
H)	<u>Motor vehicle adhesive</u>	<u>0.250</u>	<u>(2.1)</u>
I)	<u>Motor vehicle weatherstrip adhesive</u>	<u>0.750</u>	<u>(6.3)</u>
J)	<u>Multipurpose construction</u>	<u>0.200</u>	<u>(1.7)</u>
K)	<u>Plastic solvent welding (acrylonitrile butadiene styrene (ABS) welding)</u>	<u>0.400</u>	<u>(3.3)</u>
L)	<u>Plastic solvent welding (except ABS welding)</u>	<u>0.500</u>	<u>(4.2)</u>
M)	<u>Sheet rubber lining installation</u>	<u>0.850</u>	<u>(7.1)</u>
N)	<u>Single-ply roof membrane installation/repair (except ethylene propylenediene monomer (EPDM) roof membrane)</u>	<u>0.250</u>	<u>(2.1)</u>
O)	<u>Structural glazing</u>	<u>0.100</u>	<u>(0.8)</u>
P)	<u>Thin metal laminate</u>	<u>0.780</u>	<u>(6.5)</u>
Q)	<u>Tire repair</u>	<u>0.100</u>	<u>(0.8)</u>
R)	<u>Waterproof resorcinol glue</u>	<u>0.170</u>	<u>(1.4)</u>
3)	<u>Adhesive primer application operations</u>		
A)	<u>Motor vehicle glass bonding primer</u>	<u>0.900</u>	<u>(7.5)</u>
B)	<u>Plastic solvent welding adhesive primer</u>	<u>0.650</u>	<u>(5.4)</u>

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C) Single-ply roof membrane adhesive primer 0.250 (2.1)

D) Other adhesive primer 0.250 (2.1)

3416
 3417 c) No owner or operator of a source subject to this Subpart shall operate a
 3418 miscellaneous industrial adhesive application operation unless the daily-weighted
 3419 average VOM content of subject adhesives as applied each day by the operation,
 3420 calculated in accordance with subsection (c)(1) of this Section, is less than or
 3421 equal to the emissions limitation calculated in accordance with subsection (c)(2)
 3422 of this Section.

3423
 3424 1) Weighted Average of VOM Content of Adhesives Applied Each Day
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$$VOM_{WA} = \frac{\sum_{i=1}^n M_i VOM_i}{\sum_{i=1}^n M_i}$$

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3429

where:

VOM_{WA} ≡ The weighted average VOM content in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day;

i ≡ Subscript denoting a specific adhesive as applied;

n ≡ The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

M_i ≡ The mass of each adhesive, as applied, in units of kg/l (lb/gal);

VOM_i ≡ The VOM content in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied;

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2) Mass Weighted Average VOM Limit for an Averaging Operation

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$$Limit_{WA} = \frac{\sum_{i=1}^n M_i Limit_i}{\sum_{i=1}^n M_i}$$

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3436

where:

Limit_{WA} ≡ The mass weighted average VOM limit in units of kg (lbs) VOM per volume in l (gal) of all subject adhesives as applied each day in a single operation;

i ≡ Subscript denoting a specific adhesive as applied;

n ≡ The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation;

M_i ≡ The mass of each adhesive, as applied, in units of kg/l (lb/gal);

Limit_i ≡ The VOM limit, taken from subsection (b) of this Section, in units of kg (lbs) VOM per volume in l (gal) of each adhesive as applied.

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- d) No owner or operator of a source subject to this Subpart shall operate a miscellaneous industrial adhesive application operation employing a capture system and control device unless either:
- 1) An afterburner or carbon adsorption system is used that provides at least 85 percent reduction in the overall emissions of VOM from the application operation;
 - 2) An alternative capture and control system is used that provides at least 85 percent reduction in the overall emissions of VOM from the application operation and is approved by the Agency and USEPA within federally enforceable permit conditions. The owner or operator shall submit a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for the control device; or
 - 3) The owner or operator complies with the applicable limitation set forth in subsection (b) of this Section by utilizing a combination of low-VOM

3456 adhesives and an afterburner or carbon adsorption system. The owner or
3457 operator may use an alternative capture and control system if the owner or
3458 operator submits a plan to the Agency detailing appropriate monitoring
3459 devices, test methods, recordkeeping requirements, and operating
3460 parameters for the capture and control system and the system is approved
3461 by the Agency and USEPA within federally enforceable permit conditions.
3462

3463 e) The owner or operator of a source subject to this Subpart shall apply all
3464 miscellaneous industrial adhesives using one or more of the following methods:
3465

- 3466 1) Electrostatic spray;
- 3467
- 3468 2) High volume low pressure (HVLP) spray;
- 3469
- 3470 3) Flow coating. For the purposes of this Subpart, flow coating means a non-
3471 atomized technique of applying coating to a substrate with a fluid nozzle
3472 with no air supplied to the nozzle;
- 3473
- 3474 4) Roll coating or hand application, including non-spray application methods
3475 similar to hand or mechanically powered caulking gun, brush, or direct
3476 hand application;
- 3477
- 3478 5) Dip coating, including electrodeposition. For purposes of this Subpart,
3479 "electrodeposition" means a water-borne dip coating process in which
3480 opposite electrical charges are applied to the substrate and the coating.
3481 The coating is attracted to the substrate due to the electrochemical
3482 potential difference that is created;
- 3483
- 3484 6) Airless spray;
- 3485
- 3486 7) Air-assisted airless spray; or
- 3487
- 3488 8) Another adhesive application method capable of achieving a transfer
3489 efficiency equal to or better than that achieved by HVLP spraying, if the
3490 method is approved in writing by the Agency.

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3492 f) The owner or operator of a source subject to this Subpart shall comply with the
3493 following work practices for each subject miscellaneous adhesive application
3494 operation at the source:
3495

- 3496 1) Store all VOM-containing adhesives, adhesive primers, process-related
3497 waste materials, cleaning materials, and used shop towels in closed
3498 containers;

- 3499
- 3500 2) Ensure that mixing and storage containers used for VOM-containing
- 3501 adhesives, adhesive primers, process-related waste materials, and cleaning
- 3502 materials are kept closed at all times except when depositing or removing
- 3503 those materials;
- 3504
- 3505 3) Minimize spills of VOM-containing adhesives, adhesive primers, process-
- 3506 related waste materials, and cleaning materials;
- 3507
- 3508 4) Convey VOM-containing adhesives, adhesive primers, process-related
- 3509 waste materials, and cleaning materials from one location to another in
- 3510 closed containers or pipes; and
- 3511
- 3512 5) Minimize VOM emissions from the cleaning of application, storage,
- 3513 mixing, and conveying equipment by ensuring that equipment cleaning is
- 3514 performed without atomizing the cleaning solvent and all spent solvent is
- 3515 captured in closed containers.
- 3516

3517 (Source: Added at 34 Ill. Reg. _____, effective _____)

3518

3519 **Section 219.902 Testing Requirements**

- 3520
- 3521 a) Testing to demonstrate compliance with the requirements of this Subpart shall be
- 3522 conducted by the owner or operator within 90 days after a request by the Agency,
- 3523 or as otherwise provided in this Subpart. The testing shall be conducted at the
- 3524 expense of the owner or operator and the owner or operator shall notify the
- 3525 Agency in writing 30 days in advance of conducting the testing to allow the
- 3526 Agency to be present during testing.
- 3527
- 3528 b) Testing to demonstrate compliance with the VOM content limitations in Section
- 3529 219.901(b) of this Subpart shall be conducted as follows:
- 3530
- 3531 1) Method 24, incorporated by reference in Section 219.112 of this Part, shall
- 3532 be used for non-reactive adhesives;
- 3533
- 3534 2) Appendix A of 40 CFR 63, Subpart PPPP, incorporated by reference in
- 3535 Section 219.112 of this Part, shall be used for reactive adhesives;
- 3536
- 3537 3) The manufacturer's specifications for VOM content for adhesives may be
- 3538 used if the specifications are based on results of tests of the VOM content
- 3539 conducted in accordance with methods specified in subsections (b)(1) and
- 3540 (b)(2) of this Section, as applicable.
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- c) For afterburners and carbon adsorbers, the methods and procedures of Section 219.105(d) through (f) of this Part shall be used for testing to demonstrate compliance with the requirements of Section 219.901(d) of this Subpart, as follows:
- 1) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part;
 - 2) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part;
 - 3) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR 60, Appendix A, incorporated by reference in Section 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used, except under the following circumstances, in which case Method 25A must be used:
 - A) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;
 - B) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon;
 - C) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

3584 D) During testing, the cleaning equipment shall be operated at
3585 representative operating conditions and flow rates.
3586

3587 d) An owner or operator using an emissions control system other than an afterburner
3588 or carbon adsorber shall conduct testing to demonstrate compliance with the
3589 requirements of Section 219.901(d) as set forth in the owner's or operator's plan
3590 approved by the Agency and USEPA pursuant to Section 219.901(d)(3).
3591

3592 (Source: Added at 34 Ill. Reg. _____, effective _____)
3593

3594 **Section 219.903 Monitoring Requirements**
3595

3596 a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner
3597 or operator of a source subject to Section 219.901(d) of this Subpart shall:
3598

3599 1) Install, calibrate, operate, and maintain temperature monitoring devices
3600 with an accuracy of 3°C or 5°F on the emissions control system in
3601 accordance with Section 219.105(d)(2) of this Part and in accordance with
3602 the manufacturer's specifications. Monitoring shall be performed at all
3603 times when the emissions control system is operating; and
3604

3605 2) Install, calibrate, operate and maintain, in accordance with manufacturer's
3606 specifications, a continuous recorder on the temperature monitoring
3607 devices, such as a strip chart, recorder or computer, with at least the same
3608 accuracy as the temperature monitor;
3609

3610 b) If an emissions control system other than an afterburner or carbon adsorber is
3611 used to demonstrate compliance, the owner or operator of a source subject to
3612 Section 219.901(d) of this Subpart shall install, maintain, calibrate, and operate
3613 the monitoring equipment as set forth in the owner's or operator's plan approved
3614 by the Agency and USEPA pursuant to Section 219.901(d)(3).
3615

3616 (Source: Added at 34 Ill. Reg. _____, effective _____)
3617

3618 **Section 219.904 Recordkeeping and Reporting Requirements**
3619

3620 a) The owner or operator of a source exempt from the limitations of this Subpart
3621 because of the criteria in Section 219.900(a) of this Subpart shall comply with the
3622 following:
3623

3624 1) By May 1, 2011, or upon initial start-up of the source, whichever is later,
3625 submit a certification to the Agency that includes:
3626

- 3627 A) A declaration that the source is exempt from the requirements of
3628 this Section because of the criteria in Section 219.900(a);
3629
- 3630 B) Calculations that demonstrate that combined emissions of VOM
3631 from miscellaneous industrial adhesive application operations at
3632 the source, including related cleaning activities, never equal or
3633 exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution
3634 control equipment. To calculate daily emissions of VOM, the
3635 owner or operator shall determine the monthly emissions of VOM
3636 from miscellaneous industrial adhesive application operations at
3637 the source (including related cleaning activities) and divide this
3638 amount by the number of days during that calendar month that
3639 miscellaneous industrial adhesive application operations at the
3640 source were in operation;
3641
- 3642 2) Notify the Agency of any record that shows that the combined emissions
3643 of VOM from miscellaneous industrial adhesive application operations at
3644 the source, including related cleaning activities, ever equal or exceed 6.8
3645 kg/day (15 lbs/day), in the absence of air pollution control equipment,
3646 within 30 days after the event occurs, and provide copies of those records
3647 upon request by the Agency.
3648
- 3649 b) All sources subject to the requirements of this Subpart shall:
3650
- 3651 1) By May 1, 2011, or upon initial start-up of the source, whichever is later,
3652 submit a certification to the Agency that includes:
3653
- 3654 A) Identification of each subject adhesive application operation as of
3655 the date of certification;
3656
- 3657 B) A declaration that all subject adhesive application operations are in
3658 compliance with the requirements of this Subpart;
3659
- 3660 C) The limitation with which each subject adhesive application
3661 operation will comply (i.e., the VOM content limitation, the daily
3662 weighted averaging alternative, or the emissions control system
3663 alternative);
3664
- 3665 D) Initial documentation that each subject adhesive application
3666 operation will comply with the applicable limitation, including
3667 copies of manufacturer's specifications, test results (if any),
3668 formulation data, and calculations;
3669

- 3670 E) Identification of the methods that will be used to demonstrate
3671 continuing compliance with the applicable limitations;
3672
- 3673 F) A description of the practices and procedures that the source will
3674 follow to ensure compliance with the limitations in Section
3675 219.901(f) of this Subpart;
3676
- 3677 G) A description of each adhesive application operation exempt
3678 pursuant to Section 219.900(b)(2) of this Subpart, if any; and
3679
- 3680 H) The application methods used by each subject adhesive application
3681 operation;
3682
- 3683 2) At least 30 calendar days before changing the method of compliance in
3684 accordance with Section 219.901(b), (c), and (d), notify the Agency in
3685 writing of the change. The notification shall include a demonstration of
3686 compliance with the newly applicable subsection;
3687
- 3688 3) Notify the Agency in writing of any violation of the requirements of this
3689 Subpart within 30 days following the occurrence of the violation and
3690 provide records documenting the violation upon request by the Agency;
3691
- 3692 4) Retain all records required by this Section for at least three years and
3693 make those records available to the Agency upon request.
3694
- 3695 c) The owner or operator of an adhesive application operation subject to the
3696 limitations of Section 219.901 of this Subpart and complying by means of Section
3697 219.901(b) shall comply with the following:
3698
- 3699 1) By May 1, 2011, or upon the initial start-up date, whichever is later,
3700 submit a certification to the Agency that includes the name, identification
3701 number, and VOM content of each adhesive as applied by each subject
3702 adhesive application operation;
3703
- 3704 2) Collect and record the name, identification number, and VOM content of
3705 each adhesive as applied each day by each adhesive application operation
3706 complying with Section 219.901(b).
3707
- 3708 d) The owner or operator of an adhesive application operation subject to the
3709 limitations of Section 219.901 of this Subpart and complying by means of Section
3710 219.901(c) shall comply with the following:
3711

- 3712 1) By May 1, 2011, or upon initial start-up, whichever is later, submit a
3713 certification to the Agency that includes the name, identification number,
3714 and VOM content of each adhesive as applied by each subject adhesive
3715 application operation;
3716
- 3717 2) Collect and record the following information each day for each adhesive
3718 application operation complying by means of Section 219.901(c):
3719
- 3720 A) The name, identification number, and VOM content of each
3721 adhesive as applied each day by each subject adhesive application
3722 operation;
3723
- 3724 B) The daily weighted average VOM content of all adhesives as
3725 applied by each subject adhesive application operation.
3726
- 3727 e) The owner or operator of an adhesive application operation subject to the
3728 requirements of Section 219.901 of this Subpart and complying by means of
3729 Section 219.901(d) shall:
3730
- 3731 1) By May 1, 2011, or upon the initial start-up date, whichever is later, and
3732 upon initial start-up of a new control device, submit a certification to the
3733 Agency that includes the following:
3734
- 3735 A) The type of afterburner or other approved control device used to
3736 comply with the requirements of Section 219.901(d);
3737
- 3738 B) The results of all tests and calculations necessary to demonstrate
3739 compliance with the control requirements of Section 219.901(d);
3740 and
3741
- 3742 C) A declaration that the monitoring equipment required under
3743 Section 219.903 of this Subpart has been properly installed and
3744 calibrated according to manufacturer's specifications;
3745
- 3746 2) Within 90 days after conducting testing pursuant to Section 219.902 of
3747 this Subpart, submit to the Agency a copy of all test results, as well as a
3748 certification that includes the following:
3749
- 3750 A) A declaration that all tests and calculations necessary to
3751 demonstrate whether the adhesive application operations are in
3752 compliance with Section 219.901(d) have been properly
3753 performed;
3754

- 3755 B) A statement whether the adhesive application operations are or are
- 3756 not in compliance with Section 219.901(d); and
- 3757
- 3758 C) The operating parameters of the afterburner or other approved
- 3759 control device during testing, as monitored in accordance with
- 3760 Section 219.903 of this Subpart;
- 3761
- 3762 3) Collect and record daily the following information for each adhesive
- 3763 application operation subject to the requirements of Section 219.901(d):
- 3764
- 3765 A) Afterburner or other approved control device monitoring data in
- 3766 accordance with Section 219.903 of this Subpart;
- 3767
- 3768 B) A log of operating time for the afterburner or other approved
- 3769 control device, monitoring equipment, and the associated
- 3770 application unit; and
- 3771
- 3772 C) A maintenance log for the afterburner or other approved control
- 3773 device and monitoring equipment detailing all routine and non-
- 3774 routine maintenance performed, including dates and duration of
- 3775 any outages.
- 3776
- 3777

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