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POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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

3)	Section Numbers:	Proposed Action:	MAR 3 0 2010
	218.105	Amended	
	218.106	Amended	STATE OF ILLINOIS Pollution Control Board
5	218.112	Amended	
	218.204	Amended	
	218.205	Amended	
	218.207	Amended	
	218.208	Amended	
	218.210	Amended	
	218.211	Amended	
	218.212	Amended	
	218.219	New	
	218.890	New	
	218.891	New	
	218.892	New	
	218.894	New	
	218.900	New	
	218.901	New	
	218.902	New	
	218.903	New	
	218.904	New	

- 4) <u>Statutory Authority</u>: 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) <u>A Complete Description of the Subjects and Issues Involved</u>: 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 Parts 218 to implement such recommendations for the Chicago nonattainment area. Generally, the proposal amends Subpart F of Part 218 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 218, which set forth new VOM limitations and requirements for fiberglass boat manufacturing materials and miscellaneous industrial adhesives, respectively.

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

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

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

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

<u>Control Techniques Guidelines for Fiberglass Boat Manufacturing Materials</u>, 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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<u>Air Pollutants for Surface Coating of Plastic Parts and Products</u>, 72 Fed. Reg. 20227-37 (Apr. 24, 2007).

- 7) <u>Will this rulemaking replace any emergency rulemaking currently in effect?</u> No
- 8) Does this rulemaking contain an automatic repeal date? No

9) <u>Does this rulemaking contain incorporations by reference</u>? Yes

10) Are there any other rulemakings pending on this Part? Yes

Section Numbers:	Proposed Action:	Illinois Register Citation:
218.106	Amend	33 Ill. Reg. 16399; November 20, 2009
218.204	Amend	33 Ill. Reg. 16399; November 20, 2009
218.205	Amend	33 Ill. Reg. 16399; November 20, 2009
218.207	Amend	33 Ill. Reg. 16399; November 20, 2009
218.210	Amend	33 Ill. Reg. 16399; November 20, 2009
218.211	Amend	33 Ill. Reg. 16399; November 20, 2009
218.212	Amend	33 Ill. Reg. 16399; November 20, 2009
218.218	New	33 Ill. Reg. 16399; November 20, 2009
218.106	Amend	34 Ill. Reg. 1791; February 5, 2010
218.181	Amend	34 Ill. Reg. 1791; February 5, 2010
218.187	New	34 Ill. Reg. 1791; February 5, 2010
218.204	Amend	34 Ill. Reg. 1791; February 5, 2010
218.205	Amend	34 Ill. Reg. 1791; February 5, 2010
218.207	Amend	34 Ill. Reg. 1791; February 5, 2010
218.210	Amend	34 Ill. Reg. 1791; February 5, 2010
218.211	Amend	34 Ill. Reg. 1791; February 5, 2010
218.212	Amend	34 Ill. Reg. 1791; February 5, 2010
218.217	Amend	34 Ill. Reg. 1791; February 5, 2010
218.401	Amend	34 Ill. Reg. 1791; February 5, 2010
218.402	Amend	34 Ill. Reg. 1791; February 5, 2010
218.403	Amend	34 Ill. Reg. 1791; February 5, 2010
218.404	Amend	34 Ill. Reg. 1791; February 5, 2010
218.405	Amend	34 Ill. Reg. 1791; February 5, 2010
218.406	Repeal	34 Ill. Reg. 1791; February 5, 2010
218.407	Amend	34 Ill. Reg. 1791; February 5, 2010
218.408	Repeal	34 Ill. Reg. 1791; February 5, 2010
218.409	Amend	34 Ill. Reg. 1791; February 5, 2010
218.411	Amend	34 Ill. Reg. 1791; February 5, 2010

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218.412	New	34 Ill. Reg. 1791; February 5, 2010
218.413	New	34 Ill. Reg. 1791; February 5, 2010
218.415	New	34 Ill. Reg. 1791; February 5, 2010
218.416	New	34 Ill. Reg. 1791; February 5, 2010
218.417	New	34 Ill. Reg. 1791; February 5, 2010

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

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

First hearing:	Wednesday, 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: (if necessary)	Wednesday, May 19, 2010 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: (if necessary)

Wednesday, June 2, 2010 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) <u>Types of small businesses, small municipalities and not for profit corporations</u> <u>affected</u>: This rulemaking will impact any small business, small municipality, and not for profit corporation that falls within one of the Group IV Product Categories and meets the applicability thresholds specified in the proposal.
- B) <u>Reporting, bookkeeping or other procedures required for compliance</u>: 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) <u>Types of Professional skills necessary for compliance</u>: No professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.
- 14) <u>Regulatory Agenda on which this rulemaking was summarized</u>: 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 218 CLERK'S OFFICE ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS FOR THE CHICAGO AREA MAR 3 0 2010 SUBPART A: GENERAL PROVISIONS STATE OF ILLINOIS Section Section 218.100 Introduction 218.101 Savings Clause 218.102 Abbreviations and Conversion Factors 218.103 Applicability 218.104 Definitions 218.105 Test Methods and Procedures 218.105 Test Methods and Procedures 218.106 Compliance Dates 218.107 Operation of Afterburners 218.108 Exemptions, Variations, and Alternative Means of Control or Compliance Daterminations Pollution Control Board Compliance Determinations 218.109 Vapor Pressure of Volatile Organic Liquids 218.110 Vapor Pressure of Organic Material or Solvent 218.111 Vapor Pressure of Volatile Organic Material 218.112 Incorporations by Reference 218.113 Monitoring for Negligibly-Reactive Compounds 218.114 Compliance with Permit Conditions SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS Section Section218.119Applicability for VOL218.120Control Requirements for Storage Containers of VOL218.121Storage Containers of VPL218.122Loading Operations218.123Petroleum Liquid Storage Tanks218.124External Floating Roofs218.125Compliance Dates212.126Compliance Dates 218.126 Compliance Plan (Repealed) 218.127 Testing VOL Operations 218.128 Monitoring VOL Operations 218.129 Recordkeeping and Reporting for VOL Operations SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT Section Separation Operations 218.141 Pumps and Compressors 218.142 Vapor Blowdown 218.143 Safety Relief Valves 218.144 SUBPART E: SOLVENT CLEANING Section

Solvent Cleaning in General 218.181 218.182 Cold Cleaning Open Top Vapor Degreasing Conveyorized Degreasing Compliance Schedule (Repealed) 218.183 218.184 218.185 218.186 Test Methods SUBPART F: COATING OPERATIONS Section 218.204 Emission Limitations 218.205 Daily-Weighted Average Limitations
218.206 Solids Basis Calculation
218.207 Alternative Emission Limitations
218.208 Exemptions from Emission Limitations Exemption from General Rule on Use of Organic Material Compliance Schedule Recordkeeping and Reporting 218.209 218.210 218.211 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines 218.214 Changing Compliance Methods 218.215 Wood Furniture Coating Averaging Approach Wood Furniture Coating Add-On Control Use 218.216 218.217 Wood Furniture Coating Work Practice Standards 218.219 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 218.301Use of Organic Material218.302Alternative Standard218.303Fuel Combustion Emission Units 218.304 Operations with Compliance Program SUBPART H: PRINTING AND PUBLISHING Section Flexographic and Rotogravure Printing 218.401 218.402 Applicability 218.403 Compliance Schedule 218.404 Recordkeeping and Reporting 218.405 Lithographic Printing: Applicability Provisions Applying to Heatset Web Offset Lithographic Printing 218.406 Prior to March 15, 1996 Emission Limitations and Control Requirements for Lithographic 218.407 Printing Lines On and After March 15, 1996 218.408 Compliance Schedule for Lithographic Printing On and After March 15, 1996 218.409 Testing for Lithographic Printing On and After March 15, 1996 218.410 Monitoring Requirements for Lithographic Printing 218.411 Recordkeeping and Reporting for Lithographic Printing SUBPART Q: SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

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218.730 Certification (Repealed) SUBPART GG: MARINE TERMINALS Section 218.760 Applicability Control Requirements 218.762 Compliance Certification 218.764 Leaks 218.766 218.768 Testing and Monitoring 218.770 Recordkeeping and Reporting SUBPART HH: MOTOR VEHICLE REFINISHING Section Emission Limitations 218.780 Alternative Control Requirements 218.782 218.782Alternative Control Requirements218.784Equipment Specifications218.786Surface Preparation Materials218.787Work Practices218.788Testing218.789Monitoring and Recordkeeping for Control Devices218.790General Recordkeeping and Reporting (Repealed)218.701General Recordkeeping and Reporting (Repealed) 218.791 Compliance Date Registration 218.792 Applicability of Subpart BB (Renumbered) 218.875 Emissions Limitation at Polystyrene Plants (Renumbered) 218.877 218.879 Compliance Date (Repealed) Compliance Plan (Repealed) 218.881 218.883 Special Requirements for Compliance Plan (Repealed) Emissions Testing (Renumbered) 218.886 SUBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS Section Applicability 218.890 218.891 Emission Limitations and Control Requirements 218.892 Testing and Monitoring Requirements 218.894 Recordkeeping and Reporting Requirements SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES Section 218.900 Applicability Emission Limitations and Control Requirements 218.901 218.902 Testing Requirements 218.903 Monitoring Requirements Recordkeeping and Reporting Requirements 218.904 SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES Section Applicability 218.920 Permit Conditions (Repealed) 218.923 Control Requirements 218.926

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218.928 Testing 218.929 Cementable and Dress or Performance Shoe Leather SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES Section Applicability 218.940 218.943 Permit Conditions (Repealed) 218.946 Control Requirements 218.947 Compliance Schedule 218.948 Testing SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESSES Section Applicability 218.960 218.963 Permit Conditions (Repealed) 218.966 Control Requirements 218.967 Compliance Schedule 218.968 Testing SUBPART TT: OTHER EMISSION UNITS Section 218.980 Applicability 218.983 Permit Conditions (Repealed) 218.986 Control Requirements 218.987 Compliance Schedule 218.988 Testing SUBPART UU: RECORDKEEPING AND REPORTING Section 218.990 Exempt Emission Units 218.991 Subject Emission Units 218.APPENDIX A+ List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing 218.APPENDIX B+ VOM Measurement Techniques for Capture Efficiency (Repealed) 218.APPENDIX C+ Reference Methods and Procedures 218.APPENDIX D+ Coefficients for the Total Resource Effectiveness Index (TRE) Equation List of Affected Marine Terminals 218.APPENDIX E+ 218.APPENDIX G+ TRE Index Measurements for SOCMI Reactors and Distillation Units 218.APPENDIX H+ Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging AUTHORITY: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the Environmental Protection Act [415 ILCS 5/1010. 27. 28. and 28.5]. SOURCE: Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991;

amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. at 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995; amended in R96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21 Ill. Reg. 7708, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective February 2, 1998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in R02-20 at 27 Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684, effective May 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007; amended in R08-088 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-20 at 34 Ill. Reg.

SUBPART A: GENERAL PROVISIONS

Section 218.105 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 218.112 of this Part.

B) ASTM E 300-86 standard practice for sampling industrial chemicals. This practice is incorporated by reference in Section 218.112 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 218.112 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 218.112 of this Part, 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 218.112 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 218.112 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 218.112 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 218.112 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 218.112 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 218.112 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 218.112 of this Part.

viii) ASTM E 180-85: Standard practice for determining the precision data of ASTM methods for analysis of and testing of industrial chemicals. This practice is incorporated by reference in Section 218.112 of this Part.

ix) ASTM D 2372-85: Standard method of separation of vehicle from solventreducible paints. This method is incorporated by reference in Section 218.112 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 218.112 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 218.112 of this Part.

C) "A Guide for Graphic Arts Calculations", August 1988, EPA-340/1-88-003, incorporated by reference in Section 218.112 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 218.112 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 218.112 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 <u>SectionsSection</u> 218.204(a)(1)(B)(2), or 218.204(a)(1)(C)(3), 218.204(a)(2)(B), 218. 204(a)(2)(C), or 218.204(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 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

218.112 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 218.112 of this Part, with the following additional restrictions:

i) Unless otherwise specified in subsection (c) (1) (B) (ii) below, the 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 at Section 218.112 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 alterative 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) (iv) below must be met.

ii) The owner or operator of the source engaged in printing located at 350 E. 22nd Street, Chicago, Illinois, 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 14-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 13 operating days to the total solvent usage for the same 14-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 218.112 of this Part. This ratio shall be expressed as a percentage. The ratio shall be computed within 17 days following each 14-day period. In addition, the criteria in subsection (c) (1) (B) (iii) or subsection (c) (1) (B) (iv) below must be met.

iii) 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

iv) 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 at Section 218.112 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 218.108(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 218.112 of this Part. The capture efficiency equation to be used for this protocol is:

CE = Cw/(Cw + Fw)

where:

CE = Capture efficiency, decimal fraction; Gw = Mass of VOM captured and delivered to control device using a TTE; 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 218.112 of this Part is used to obtain Gw. Method 204D in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 of this Part of this Part, is used to obtain 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 218.112 of this Part. The capture efficiency equation to be used for this protocol is:

$\frac{CE = (L - Fw) / L}{L}$

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 Part 51, incorporated by reference in Section 218.112 of this Part is used to obtain L. Method 204 D in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 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-Part 51, incorporated by reference in Section 218.112 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 = 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 218.112 of this Part is used to obtain G. Method 204E in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 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 218.112 of this Part, and in which "FB" and "L" 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 - 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 218.112 of this Part is used to obtain L. Method 204E in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 of this Part is used to obtain FB.

Mass balance using Data Quality Objective (DQO) or Lower Confidence Limit E) (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 218.112 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 218.112 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 51.51, incorporated by reference in Section 218.112 of this Part. The results of capture efficiency calculations (G/L) must satisfy the DQO or LCL statistical analysis protocol as described in Section 3 of USEPA's "Guidelines for Determining Capture Efficiency, " incorporated by reference at Section 218.112 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 noncompliance; 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 218.108(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 218.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section 218.105(c)(2)(E), or an alternative protocol pursuant to Section 218.108(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 218.112 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 60 days <u>ofafter</u> the test date. A copy of the results must be kept on file with the source for a period of 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 or observe testing.

D) Sources utilizing a PTE must demonstrate that this enclosure meets the requirements given in Method 204 in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 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 of 40 CFRPart 51, incorporated by reference in Section 218.112 of this Part, for a TTE during 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 218.112 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 218 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 in degrees Celsius or ± 0.50 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 $28 \times C (50 \times F)$ 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 3hour periods of operation in which the average gas temperature before the catalyst bed is more than $28 \times C$ ($50 \times F \times F$) 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 demonstrated that the operation was in compliance.

3) An owner or operator that uses a carbon adsorber to comply with Section 218.401 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 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 218.112 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 218.207(c), (d), (e), (f), or (g) of this Part by the alternative

in Section 218.207(b)(2) of this Part and meet the criteria allowing them to comply with Section 218.207 of this Part instead of Section 218.204 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:

$E = ([VOMa - VOM1]/VOMa) \times 100$

where:

E = Equivalent overall efficiency of the capture system and control device as a percentage;VOMa = 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) of this Section in units of kg VOM/11 (lb VOM/gal) of coating solids as applied;VOM1 VOM1 = The VOM emission limit specified in Section 218.204 or 218.205 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 218.112 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 218.112 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 minutes, 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 absorber vessels.

B) When the method is to be used to determine the efficiency of a carbon adsorption system with individual exhaust stacks for each absorber vessel, each adsorber vessel shall be tested individually. The test for each absorber 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 218.112 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 218.112 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 218.112 of this Part, shall be used for gas analysis.

5) 40 CFR Part 60, Appendix A, Method 4, incorporated by reference in Section 218.112 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 218.112 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 218.112 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 218.112 of this Part.

B) "Portable Instrument User's Manual for Monitoring VOC Sources", EPA-340/1-86-015, incorporated by reference in Section 218.112 of this Part. C) "Protocols for Generating Unit-Specific Emission Estimates for Equipment Leaks of VOC and VHAP", EPA-450/3-88-010, incorporated by reference in Section 218.112 of this Part.

D) "Petroleum Refinery Enforcement Manual", EPA-340/1-80-008, incorporated by reference in Section 218.112 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 218.112 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 218.112 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 218.112 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 218.112 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 218.106 Compliance Dates

a) Except as otherwise provided in this Section or as otherwise provided in a specific Subpart of this Part, compliance with the requirements of all rules is required by July 1, 1991, or September 1, 1991, for all sources located in Cook,

DuPage, Kane, Lake, McHenry, or Will Counties, consistent with the appropriate provisions of Section 218.103 of this Subpart.

b) Except as otherwise provided in this Section or as otherwise provided in a specific Subpart of this Part, compliance with the requirements of this Part is required by November 15, 1993, for all sources located in Aux Sable Township or Goose Lake Township in Grundy County, or in Oswego Township in Kendall County.

c) All emission units which meet the applicability requirements of Sections 218.402(a)(2), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b), 218.940(b), 218.960(b) or 218.980(b) of this Part, including emission units at sources which are excluded from the applicability criteria of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or 218.980(a) of this Part by virtue of permit conditions or other enforceable means, must comply with the requirements of Subparts H, Z, AA, CC, DD, PP, QQ, RR or TT of this Part, respectively, by March 15, 1995. Any owner or operator of an emission unit which has already met the applicability requirements of Sections 218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a) 218.980(a) of this Part on or by the effective date of this subsection is required to comply with all compliance dates or schedules found in Sections 218.106(a) or 218.106(b), as applicable.

d) Any owner or operator of a source with an emission unit subject to the requirements of Section 218.204(m)(2) or (m)(3) of this Part shall comply with those requirements by March 25, 1995.

e) Any owner or operator of a source subject to the requirements of Section 218.204(a)(2) or 218.204(q) of this Part shall comply with the applicable requirements in <u>such Section(s)those Sections</u>, as well as all applicable requirements in Sections 218.205 through 218.214 and 218.219, by May 1, 2011.

(Source: Amended at 34 Ill. Reg. ___, effective_____)

Section 218.112 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, 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- 168-67 (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)
- 26) ASTM D 2099-00

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 60 (July 1, 1991) and 40 CFR 60, Appendix A, Method 24 (57 FR 30654, July 10, 1992).

e) 40 CFR 61 (July 1, 1991).

f) 40 CFR 50 (July 1, 1991).

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

h) 40 CFR 52 (July 1, 1991).

i) 40 CFR 80 (July 1, 1991) and 40 CFR Part 8080. 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.

 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.

1) "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/-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 VOC 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 VOC and VHAP", October 1988, Unites 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) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 309-91, Determination of Static Volatile Emissions (February 1993).

z) South Coast Air Quality Management District (SCAQMD), Applied Science & Technology Division, Laboratory Services Branch, SCAQMD Method 312-91, Determination of Percent Monomer in Polyester Resins (April 1996).

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

bb) 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.

cc) "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.

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

ee) 46 CFR- Subchapter Q (2007).

ff) 46 CFR $_{\tau}$ Subchapter T (2008).

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

SUBPART F: COATING OPERATIONS

Section 218.204 Emission Limitations

Except as provided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of this Subpart, no owner or operator of a coating line shall apply at any time any coating in which the VOM content exceeds the following emission limitations for the specified coating. Except as otherwise provided in SectionsSection 218.204(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 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(c) of this Subpart except where noted. (Note: The equation presented in Section 218.206 of this Part shall be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency,

emissions trades and cross-line averaging.) The emission limitations are as follows:

a) Automobile or Light-Duty Truck Coating kg/l 1bCoatingkg/11b/gal 1) Prior to May 1, 2011: A1) Prime Coat <u>coat</u>0.14 (1.2)0.14* (1.2)*B2) B)Primer surface coat 1.81 (15.1)1.81* (15.1)*

(NoteBOARD NOTE: The primer surface coat limitation is in units of kg (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) and the recordkeeping and reporting requirements specified in Section 218.211(f). <u>Testing to</u> <u>demonstrate compliance shall be performed in accordance with the topcoat</u> <u>protocol and a detailed testing proposal approved by the Agency and USEPA</u> <u>specifying the method of demonstrating compliance with the protocol. Section</u> <u>218.205 does not apply to the primer surfacer</u> <u>limitation.C)Topcoatkg/llb/gal1.81(15.1)1.81*(15.1)*BOARD NOTE: The topcoat</u>

limitation is in units of kg (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.)

		kg/l	lb/ga	Ŧ
) Topcoat	$\frac{1.81}{1.81}$	(15	.1)	
		1.8)]*	(15.1)*

(Note: The topcoat limitation is in units of kg (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testingproposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topcoat limitation.)

	kg/l	lb/gal of	this
Part does not apply to the topcoat limitation.	_D4) Final	repair coat	
<u>coatkg/llb/gal</u> 0.58 (4.8)			
0.58* (4.8)*			
2) On and after May 1 2011 subject automol	hile and lich	t-duty truck	costin

2) On and after May 1, 2011, subject automobile and light-duty truck coating lines shall comply with the following limitations. <u>SuchThese</u> 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 <u>coating solids applied</u> lb VOM/gal
coating solids coating solids
applied applied i appliedi) When solids turnover ratio (RT) is greater
than or equal to 0.160 — 0.084 —— <u>0.1600.084</u> (0.7)
ii) When RT is greater than α or equal to 0.040 and $\frac{0.084 \text{ x}}{1000 \text{ x}}$
(0.084 x 3500.160 RT less than 0.160 <u>0.1600.084</u> x
3500.160-RT <u>x (0.084 x 3500.160-RT x 8</u> .34)
B) Primer- surfacer operations
kg VOM/1lboperationskg VOM/1 coating solids deposited1b VOM/gal
coating solids coating
solids
deposited <u>deposited</u> i) VOM content <u>limitation</u> 1.44
(12.0)

Compliance with the limitation set forth in subsection ii) (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 218.105(b)(1)(B) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation. C) Topcoat operations ----kg VOM/l <u>lboperationskg VOM/l coating solids</u> depositedlb VOM/gal coating solids - coating solids

----- deposited ---- deposited

<u>limitation</u>1.44

limitation.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 218.105(b) (1) (B) and the recordkeeping and
reporting requirements specified in Section 218.211(f). Testing to demonstrate
compliance shall be performed in accordance with the topcoat protocol and a
detailed testing proposal approved by the Agency and USEPA specifying the method
of demonstrating compliance with the protocol. Section 218.205 does not apply
to the topcoat limitation. D) Combined primer- surfacer and topcoat
operations kg VOM/1 lboperationskg VOM/1 coating solids
depositedlb VOM/gal coating solids

-i) <u>depositedi)</u>VOM content __

depositedi)depositedi)VOM contentlimitation1.44(12.0)

(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 218.105(b) (1) (B) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the combined primer—surfacer and topcoat limitation.

E) Final repair coat operations
kg/l lb/gal
<pre>operationskg/l coatingslb/gal coatingsi)VOM content limitation: 0.58</pre>
(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.
- <u>n</u>

	**
	2VOMee + ? VOMi
Voncoc -	ZVONCC I . VOMI
	i=1
	- $n + 2$

Where:

where:

VOMtot = 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.VOMcc = The VOM content, as applied, of the clear coat used in the final repair operation.VOMi = 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 218.112 of this Part.

 $\frac{kg}{l}$

lb/gal

				<u> </u>			1.00			
	<u>i) kg/ll</u>	<u>b/gali)</u> Gla:	ss bonding	y prim	er		0.90		(7.51))
ii)	Adhesive									
	0.65	(5.	42)	iv)	Trunk	sealer			_	0.65
	(5.42) t/gasket sea	v) Dea	dener			0.65		(5.42)		vi)
Gasket	t/gasket sea	aling	0.20		(1.67)	- mater	ial			
<u>0.20(</u>	<u>1.67)</u> vii)	Underbody	coating		0.65		(5.42))	viii	Ĺ)
	interior co									
	0.20	(1.67)	x)	Weath	erstriŗ	adhes	ive		0.75	
) xi)									
b)Can	Coatingkg/	llb/gal1)Sl	neet based	coat a	nd ove	rvarnic	hAove	rvarnis	shA) She	eet
baseco	oat0.34(2.8))0.26*(2.2)	*B)Overva	arnish	0.34(2	.8)0.34	(2.8)	*2)Exte	erior 1	basecoat
	vervarnish0									
	piece0.51(4.2)0.44*(3.7)*B)Three piece0.51(4.2)0.51*(4.2)*4)Exterior end									
coat0.	coat0.51(4.2)0.51*(4.2)*5)Side seam spray coat0.66(5.5)0.66*(5.5)*6)End sealing									
-	und coat0.44									
	o/galc c) Pape									
	aper coating									
	coating lin		-	-		-	-		-	
	aper coating									
218.401 of this Part. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part. \rightarrow										
-	ə/gald d)Coil			-						
	ng0.35 (2.9)		*f)Vinyl	Coati	ng0.45	(3.8)().28*(2.3)*g))Metal	
Furnit	ture Coating	jl)Air								

dried0.36(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)*(NoteBOARD 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 quart) in any one rolling eighthour period.)kg/llb/galii) Magnet Wire CoatingCoatingkg/11b/gal0.20(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 coatingAcoatingA)Air dried0.42(3.5)0.42*(3.5)*B)Baked0.42(3.5)0.40*(3.3)*3)Steel pail and drum interior coating0.52(4.3)0.52*(4.3)*4)All other coatingsAcoatingsA)Air Drieddried0.42(3.5)0.40*(3.3)*B)Baked0.36(3.0)0.34*(2.8)*5)Marine engine coatingAcoatingA)Air Drieddried0.42(3.5)0.42*(3.5)*B)BakediBakedi)Primer/Topcoat0.42(3.5)0.42*(3.5)*i i)Corrosion resistant basecoat0.42(3.5)0.28*(2.3)*C)Clear Coating0.52(4.3)0.52*(4.3)*6)Metallic CoatingACoatingA)Air Dried0.42(3.5)0.42*(3.5)*B)Baked0.36(3.0)0.36(3.0)* 7) Definitions

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

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

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

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

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

(NoteBOARD NOTE: On and after May 1, 2011, the limitations in Section 218.204(q) shall apply to this category of coating.)

k)Heavy Off-Highway Vehicle Products Coatingkg/llb/gall)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.

1) Wood Furniture Coating1)Limitations before March 15, 1998:kg/llb/galAgalA)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)(NoteBOARD_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 11 (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, airassisted 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)Acidcured alkyd amino vinyl sealer2.3(2.3)iv)Acid-cured alkyd amino conversion varnish topcoat2.0(2.0)

C) Meet the provisions of Section 218.215 of this Subpart for use of an averaging approach;

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

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

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

kg/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 218.217 of this Subpart.

C) Any source subject to the limitations of subsection (1)(2)(A) or (B) of this Section and utilizing one or more continuous coaters shall, for each continuous coater, use an initial coating which complies with the limitations of subsection (1)(2)(A) or (B) of this Section. The viscosity of the coating in each reservoir shall always be greater than or equal to the viscosity of the initial coating in the reservoir. The owner or operator shall:

i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;

ii) Collect and record the reservoir viscosity and the amount and weight of VOM per weight of solids of coating and solvent each time coating or solvent is added; and

iii) Maintain these records at the source for a period of three years.

m)Existing Diesel-Electric Locomotive Coating Lines in Cook Countykg/llb/gal1)Extreme performance prime coat0.42(3.5)0.42*(3.5)*2)Extreme performance top-coat (air dried)0.42(3.5)0.42*(3.5)*3)Final repair coat (air dried)0.42(3.5)0.42*(3.5)*4)High-temperature aluminum coating0.72(6.0)0.72*(6.0)*5)All other coatings0.36(3.0)0.36*(3.0)* n) Prior to May 1, 2011: Plastic Parts Coating: Automotive/Transportationkg/llb/gal1) Interiors A)BakediInteriorsA)Bakedi
Olor coat0.49*(4.1)*ii)Primer0.46*(3.8)*B)Air DriediDriedi)Color coat0.38*(3.2)*ii)Primer0.42*(3.5)*2)Exteriors (flexible and non-flexible)A)BakediBakedi)Primer0.60*(5.0)*ii)Primer nonflexible0.54*(4.5)*iii)Clear coat0.52*(4.3)*iv)Color coat0.55*(4.6)*B)Air DriediDriedi)Primer0.66*(5.5)*ii)Clear coat0.54*(4.5)*iii)Color coat (red & black)0.67*(5.6)*iv)Color coat (others)0.61*(5.1)*3)Specialty A)Vacuum metalizingmetallizing 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 metalizingmetallizing 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)* (NoteBOARD NOTE: On and after May 1, 2011, the limitations in Section 218.204(q) shall apply to this category of coating.+o) Prior to May 1, 2011: Plastic Parts Coating: Business Machinekq/llb/gall)Primer0.14*(1.2)*2)Color coat (non-texture coat)0.28*(2.3)*3)Color coat (texture coat)0.28*(2.3)*4)Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings0.48*(4.0)*5) Specialty CoatingsA Soft coat0.52*(4.3)*B) Plating resist0.71*(5.9)*C)Plating sensitizer0.85*(7.1)*(NoteBOARD NOTE: On and after May 1, 2011, the limitations in Section 218.204(q) shall apply to this category Miscellaneous Metal Parts and Products Coatings and Plastic of coating.+q) 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 (g). The limitations in this subsection (q) shall not apply to aerosol coating products or powder Metal Parts and Products. For purposes of this subsection coatings. 1) (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 218.219, however, shall apply to such these coatings unless specifically excluded in Section 218.219.

kg/l-	kg/l	
<u>(lb/gal)</u>		
<u>coatingskg/l</u>		
(lb/gal) —	(lb/gal	
<u>solidsA</u>)		
coatings	solids A) General one component coating	
<u>icoatingi</u>)	Air Dried: 0.34 0	.54
<u>dried0.340.54</u> (2.8)	(4.52)ii) Baked : 0	.28
0.40	0.280.40(2.3) (3.35)
B)	General multi-component coating	

 $\frac{i_{coatingi}}{dried0.340.54} = \frac{0.34}{(2.8)} = \frac{0.54}{(4.52)ii} = \frac{0.34}{0.280.40} = \frac{0.28}{(2.3)}$
 0.40
 0.280.40 (2.3)

 (3.35)C)
 Camouflage coating:
 0.42
 0.80 <u>0.420.80</u>(3.5) (6.67) D) Electric-insulating varnish: 0.42 D) Electric-induced 0.420.80(3.5) (6.67) -> Thebing filler: 0.42 0.80 -> Thebing filler: 0.42 0.80 0.80
 E)
 Etching filler:
 0.42
 0.80

 (0.3.5)
 (6.67)
 F)
 Extreme high-gloss coating

 ±coatingi)
 Air Dried:
 0.42
 0.82
 <u>0.420.80</u>(3.5) <u>dried0.420.80</u>(3.5)
 Air Dried:
 0.42
 0.80

 (6.67) ii) Baked:
 0.36

 0.360.61
 (3.0)
 0.36 (5.06) 0.61G) Extreme performance coatingicoatingi) Air Dried: 0.80-

 dried0.420.80(3.5)
 (6.67) ii) Baked:

 0.61
 0.360.61(3.0)

 0.36-4.56 0.610.360.61(3.0)I) High performance architecturalcoating0.74-(5.06)
 coating:
 (6.2)
 4.56

 (38.0)J)
 High temperature coating:
 0.42
 0.80-

 0.420.80(3.5)
 (6.67) K)
 Metallic coating icoatingi) Air

 0.420
 0.42
 0.80

 0.667) ii)
 0.42
 0.80

 0.360.61(3.0)
 (5.06)
 L)

 Military

 specification coating
 icoatingi)
 Air Dried:
 0.34

 dried0.340.54(2.8)
 (4.52)ii)
 Baked:

 0.280 40(2.2)
 0.280 40(2.2)
 0.54 0.28

 0.40
 0.280.40(2.3)

 (3.35)M)
 Mold-seal coating:
 0.42
 0.80

 0.420.80(3.5)
 (6.67) N)
 Pan backing coating:
 0.42

 0.42
 0.420.80(3.5)
 (6.67)
 (6.67)

 0)
 Prefabricated architectural
 (6.67)

 coating: multi-component icomponenti) Air Dried: 0.80 <u>dried0.420.80</u>(3.5) 0.28 0.40 (3.35) P) Prefabricated architectural <u>componenti</u>) Air Dried
 componenti
 Air Dried:
 0.42

 dried0.420.80(3.5)
 (6.67) ii) Baked:

 0.40
 0.280.40(2.3)
 0.42 0.80 0.28
 0.40
 0.280.40(2.3)

 (3.35)Q)
 Pretreatment coating:
 0.42

 0.420.80(3.5)
 (6.67)
 R)
 Repair coats and
 touch-up

 i)
 coatings:
 Air Dried:
 dried
 0.42
 (3.5)
 ii)

 ked:
 0.36
 (3.01)
 (3.01)
 Silicone release coating:

 0.42
 0.80
 0.420.80
 (3.5)
 (6.67)

 Baked:--- 0.420.80 (3.5) (6.67) T) Solar-absorbent coating i<u>coating</u>) Air Dried:

 0.42
 0.80
 dried0.420.80(3.5)
 (6.67)

 ii) Baked:
 0.36
 0.61
 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:

0.80 0.420.80(3.5)0.42 (6.67)Drum coating, reconditioned, 0.42 X) 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: <u>0.521.24</u>(4.3) (10.34) AA) Marine engine coatingicoatingi) Air Dried: 0.42 dried0.420.80(3.5) 0.80 (6.67) ii) Baked: primer/topcoat 0.42 0.80 0.420.80(3.5)(6.67)iii) Baked: corrosion 0.40 resistant 0.28 0.28 basecoat (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) .73 coatingsi)Air Air Dried: ---0.40 dried0.400.73(3.3) (5.98)ii) Baked+ 0.340.340.54(2.8)(4.52) 0.54

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 $\frac{subsectionssubsection}{subsection}$ (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 218.219, however, shall apply to such coatings unless specifically excluded in Section 218.219.

(lb/gal) coatingskg/l <u>ka/l</u> (lb/gal (lb/gal) solidsA) solids A) General one component coatings 0 28 0 40 <u>coating0.280.40</u>(2.3) (3.35)B) General multi _component+---0.42 0.80 0.420.80(3.5)(6.67)C) Electric dissipating coatings-0.80 -8.960.808.96 and shock-free coatings: (6.7)(74.7)D) Extreme performance 0.80 0.42(2-pack coatings) - 0.42 (3.5)0.80 Metallic coating+ (6.67) E) 0.420.80 <u>0.420.80</u>(3.5) (6.67) F) Military specification coating 0.28 0.54 <u>0.280.54</u>(2.3) (4.52)ii) 2-pack coatings :----

 $\frac{kq}{l}$

 $-\frac{kq}{l}$

0.420.80 <u>0.420.80</u>(3.5) (6.67) G) 0.76 Mold-seal coating* 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) 0.80 8.96 Optical coating J) Vacuum-metalizing coating+ <u>0.808.96</u>(6.7) (74.7)0.80 8.96 <u>0.808.96</u>(6.7) (74.7)3) Plastic Parts and Products: Automotive/Transportation kg/l kg/l (lb/gal) coatingskg/l (lb/gal) — (lb/gal <u>solidsA</u>) and solidsA) High bake coatings - interior -coatings exterior partsipartsi) Flexible primer. 0.54 1.39<u>0.541.39</u>(4.5) (11.58) ii) Non-flexible primer. 0.42(6.67)iii) Base coats: <u>0.420.80</u>(3.5) 0.80-0.52 <u>Basecoats0.521.24</u>(4.3) 1.24(10.34) iv) Clear coat . 0.481.05 <u>0.481.05</u>(4.0) (8.76) v) Nonbasecoat/clear coat :--- 0.52 $\frac{1.24}{1.24}$ 0.521.24(4.3)(10.34)B) Low bake/air dried coatings -1.66 exterior partsipartsi) Primers: 0.58 <u>0.581.66</u>(4.8) 0.60 <u>0.601.87</u>(5.0) 1.87(15.59) iii) Clear coats: 0.54 0.541.39(4.5)1.39 (11.58) iv) Non-basecoat/clear coat: 0.60 1.87-(15.59) C) Low bake/air dried coatings -<u>0.601.87</u>(5.0) interior parts i<u>partsi</u>) Color coat+---0.38 0.67 <u>0.380.67</u>(3.2) (5.66)ii) Primer :----<u>0.420.80</u>(3.5) 0.42 0.80-(6.67)D) Touchup and repair coatings: 0.62 2.13 <u>0.622.13</u>(5.2) (17.72)SpecialtyiSpecialtyi) Vacuum metalizing basecoats, texture E) 2.62basecoats: 0.66 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) <u>3.64</u> (29.7)iii) Gloss reducers, vacuum metalizingmetallizing topcoats, 6.06 and texture topcoats: 0.77 0.77(6.4) 6.06 iv) Stencil coats, adhesion primers, ink pad coatings, (49.1)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 F) Red, yellow, and black (7.4)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. Plastic Parts and Products: Business Machine. The limitations of this 4) subsection (q)(4) shall not apply to vacuum metalizingmetallizing coatings, gloss reducers, texture topcoats, adhesion primers, electrostatic preparation coatings, stencil coats, and resist coats other than plating resist coats. The limitations in Section 218.219, however, shall apply to such coatings unless specifically excluded in Section 218.219.

-<u>kg/l</u> kg/l <u>kg/l (lb/gal) coatingskg/l</u> (lb/gal) — (lb/gal <u>solidsA</u>) -coatings solids

 A)
 Primers:
 0.14 0.17

 0.140.17(1.2) (1.4) B)
 Topcoat:
 -

 0.57 0.350.57(2.9) (4.80)C)
 C

 (4.80) D)
 Color coat (non-texture coat):
 0.280.40(2.3)

 (4.80) D)
 Color coat (non-texture coat):
 0.280.40(2.3)

 0.14
 0.17

 Topcoat:
 0.35
 (4.80)C) Color coat 0.280.40(2.3)0.40 (4.80)E) Texture coats other than color texture coats + 0.35 0.57 (2.9) <u>0.57</u> (4.80)F) EMI/RFI shielding coatings: 0.48 1.05 0.481.05(4.0) (8.76)G) Fog coat: 0.26

 0.38 0.260.38 (2.2)

 (3.14)H)
 Touchup and repair
 0.35

 0.350.57 (2.9)
 (4.80)I)
 Specialty coatingsi coatingsi)

 coat:
 0.52 1.24

 (10.34)
 ii)
 Plating resist:

 (20.71)
 (20.71)

 (29.7) iii) Plating sensitizer: (23.4) (7.1) (201 0) <u>0.713.64</u>(5.9) 0.85 5) Pleasure Craft Surface Coatings <u>kq/l</u> kg/l <u>kg/l (lb/gal) coatingskg/l</u> (lb/gal) - (lb/gal <u>solidsA</u>) A)Extreme high gloss coating ---0.491.10topcoat0.491.10(4.1)(9.2)B)High gloss coating -topcoat:--0.420.800.420.80(3.5)(6.7) C)Pretreatment wash primer.0.70

 topcoat:
 0.42
 0.80
 0.724
 0.78
 6.67

 (6.7) C)
 Pretreatment wash primer:
 0.786.67
 (6.5)
 (55.6) D)
 Finish

 primer/surfacer:
 0.42
 0.80
 0.420.80
 (3.5)

 (6.7) E)
 High build primer/surfacer:
 0.340.55
 (2.8)
 (4.6)

 Finish <u>0.340.55</u>(2.8) (4.6)F) Aluminum substrate antifoulant <u>coating</u>0.56 $\frac{1.53}{1.53}$ coating:(4.7)1.53(12.8)G)Other substrate antifoulant0.330.330.53(2.8)(4.4)H)All other pleasure craft surface coating: (12.8/6/ 0.12 0.330.53(2.8) (4.4) H/ All Company 0.42 0.80 coatings for metal or plastic - 0.42 (6.7) 6) Motor Vehicle Materials kg/l (lb/gal) coatingsA coatingsA) Cavity wax: 0.65 0.65 (5.42) C) Deadener :----0.65 (5.42) D) Gasket/gasket sealing material 0.20 (1.67) E) Underbody coating (5.42) F) Trunk interior coating 0.65 0.65 (5.42) G) Bedliner -----

(1.67) H) Lubricating wax/compound

0.20

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

Section 218.205 Daily-Weighted Average Limitations

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

a) No owner or operator of a coating line subject to only one of the limitations from among Section 218.204(a)(1)(A), (a)(1)(D)(4), (a)(2)(A), (a)(2)(E), (a)(2)(F), (c), (d), (e) (f), or (i), or (j) 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, <u>noNono</u> owner or operator of a miscellaneous metal parts and products coating line subject to the limitations of Section 218.204(j) of this Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

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

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

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

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

where:

Ed = Actual VOM emissions for the day in units of kg/day (lbs/day);i = Subscript denoting a specific coating applied;n = Total number of coatings applied in the can coating operation, i.e. all can coating lines at the source;Vi = Volume of each coating applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);Ci = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM). 2) The alternative daily emission limitation (Ad) shall be determined for the can coating operation, i.e., for all of the can coating lines at the source, on a daily basis as follows:

where:

Ad = The VOM emissions allowed for the day in units of kg/day (lbs/day);i = Subscript denoting a specific coating applied;n = Total number of surface coatings applied in the can coating operation;Ci = 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);Di = The density of VOM in each coating applied. For the purposes of calculating Ad, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);Vi = 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);Li = The VOM emission limitation for each surface coating applied as specified in Section 218.204(b) of this Subpart in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted for kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

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

e) No owner or operator of a wood furniture coating line subject to the limitations of Section 218.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(1) or subsection (e)(2) of this Section, in addition to the requirements specified in the note to Section 218.204(l)(1) of this Subpart, are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(l)(1)

or (1)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used $\frac{1}{72}$ or

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

f) No owner or operator of an existing diesel-electric locomotive coating line in Cook County, subject to the limitations of Section 218.204(m) of this Subpart shall apply coatings to diesel-electric locomotives on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.

1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(m) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used $\frac{1}{72}$ or

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

g) Prior to May 1, 2011, <u>noNono</u> owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:

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

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

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

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

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

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

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

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

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

1) For each coating line whichthat applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(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 whichthat applies coatings subject to more than one numerical emission limitation in Section 218.204(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 218.207 Alternative Emission Limitations

Any owner or operator of a coating line subject to Section 218.204 of this a) Subpart, except coating lines subject to Section 218.204(q)(6), may comply with this Section, rather than with Section 218.204 of this Subpart, if a capture system and control device are operated at all times the coating line is in operation and the owner or operator demonstrates compliance with subsectionsubsection (c), (d), (e), (f), (g), (h), (i), (j), $-\Theta r$ (k), or (l) of this Section (depending upon the source category) through the applicable coating analysis and capture system and control device efficiency test methods and procedures specified in Section 218.105 of this Part and the recordkeeping and reporting requirements specified in Section 218.211(e) of this Subpart; and the control device is equipped with the applicable monitoring equipment specified in Section 218.105(d) of this Part and the monitoring equipment is installed, calibrated, operated and maintained according to vendor specifications at all times the control device is in use. A capture system and control device, which does not demonstrate compliance with subsection (c), (d), (e), (f), (g), (h), (i), (j), $\frac{\partial \mathbf{r}}{\partial \mathbf{r}}$ (k), or (l) of this Section may be used as an alternative to compliance with Section 218.204 of this Subpart only if the alternative is approved by the Agency and approved by the USEPA as a SIP revision.

b) Alternative Add-On Control Methodologies

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

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

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

B) Unless complying with an emission limitation in Section 218.204 that is already expressed in terms of weight of VOM per volume of solids, <u>cCalculatecalculate</u> "S" according to the equation in Section 218.206 of this Subpart;

C) Calculate the overall efficiency required according to Section 218.105(e) of this Part. For the purposes of calculating this value, according to the equation in Section 218.105(e)(2) of this Part, <u>VOM1VOM1</u> 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 218.204 of this Subpart that is already expressed in terms of weight of VOM per volume of solids, VOM1 is equal to <u>suchthat</u> emission limitation.

c) No owner or operator of a coating line subject to only one of the emission limitations from among Section 218.204(a)(1)(A), (a)(1)(D) $\frac{(4)}{(4)}$, (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 218.204(a)(1)(B)(2), or 218.204(a)(1)(C)(3), (a)(2)(B), (a)(2)(C), or (a)(2)(D) and equipped with a capture system and control device shall operate the coating line unless the owner or operator demonstrates compliance with such limitation in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) or (b)(1)(B), 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 218.204(j) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 +(3.5 lbs/gal+)), and which that is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

e) No owner or operator of a heavy off-highway vehicle products coating line which that applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(k) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/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.

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

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

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

1) An alternative daily emission limitation shall be determined for the can coating operation, i.e. $_{2}$ for all of the can coating lines at the source, according to Section 218.205(c)(2) of this Subpart. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated by use of the following equation:

n _____ Ed = ? Vi Ci (1-Fi) i=1 ____

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 l/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); 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); andFi andFi = Fraction, by weight, of VOM emissions from the surface coating, reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.

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

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

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

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

1) 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 218.208 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 218.204 (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 218.204 (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, **vVolatile** 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 218.105 (a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211 (a) of this Subpart if total VOM emissions from the subject coating lines are always less than or equal to 6.8 kg/day $\frac{1}{15}$ lbs/day before the application of capture systems and control devices and, therefore, are not subject to the limitations of Section 218.204 of this Subpart. Once a category of coating lines at a source is subject to the limitations in Section 218.204 of this Subpart the coating lines are always subject to the limitations in Section 218.204 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 218.204 (l) of this Subpart), H (excluding Section 218.405 of this Part), Q, R, S, T (excluding Section 218.486 of this Part), V, X, Y, 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 218.204 (1) of this Subpart), H, Q, R, S, T (excluding Section 218.486 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 218.204 (1) of this Subpart shall continue to apply to any wood furniture coating line which was ever subject to the limitations of Section 218.204 (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 218.204(b), (d), (f), (g), and (i), (j), (n) and (o) of this Subpart; provided that the source-wide volume of such coatings used does not exceed 0.95 11 (1 quart) per eight-hour period or exceed 209 1/yr (55 gal/yr) for any rolling twelve month period. Recordkeeping and reporting for touch-up and repair coatings shall be consistent with subsection (ede) 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 218.204(j), (n), and (o) 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 twelvel2 month period. Recordkeeping and reporting for touch-up and repair coatings shall be consistent with subsection (e) of this Section.

edc) 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 218.204(b), (d), (f), (g), (i), (j), (n) and (o) of this Subpart because of the provisions of Section 218.208 (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 eighthour 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 (edg) (1) and (edg) (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 l (1 quart) per eight-hour period or exceeds 209 l/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 218.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.

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

Section 218.210 Compliance Schedule

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

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

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

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

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

e) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.204, 218.205 or

218.207 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with, respectively, the applicable requirements in Section 218.204, or the alternative control options in Section 218.205 or 218.207 and the requirements of Section 218.211.

f) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 218.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 218.212 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the requirements of Sections 218.212 and 218.213 of this Subpart.

g) No owner or operator of a coating line subject to the emission limitations in Section 218.204(a)(2) or 218.204(q) of this Subpart, or subject to the limitations in Section 218.219 of this Subpart, shall operate saidthe coating line on or after a date consistent with Section 218.106(e) of this Part, unless the owner or operator has complied with, and continues to comply with, Section 218.204(a)(2) or 218.204(q), if applicable, or the alternative control options in Section 218.205 or 218.207, and all applicable requirements in Sections 218.211 and 218.219 of this Subpart.

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

Section 218.211 Recordkeeping and Reporting

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

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

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

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

B) Calculations which that demonstrate that the combined VOM emissions from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before the application of capture systems and control devices. The following equation shall be used to calculate total VOM emissions:

where:

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

of coating lines at the source that otherwise would be subject to the same subsection of Section 218.104 of this Part (because they belong to the same category, e.g., can coating);j = Subscript denoting an individual coating line;n = Number of different coatings as applied each day on each coating line;i = Subscript denoting an individual coating; Ai = Weight of VOM per volume of each coating (minus water and any compounds whichthat 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); andBi andBi = 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 1/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. For sources exempt under Section 218.208(b) of this Subpart, by March 15, 2) 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

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

218.208(b) of this Subpart. Such certification shall include:

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

3) For sources exempt under Section 218.208(a) of this Subpart, on and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in this subsection (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 whichthat are specifically exempted from the definition of VOM) as applied each day on each coating line.

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

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

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

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

6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(1) of this Subpart because of Section 218.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.

c) Any owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart other than Section 218.204(a)(1)(B)(2), or (a)(1)(C)(3), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart and complying by means of Section 218.204 of this Subpart shall comply with the following:

1) By a date consistent with Section 218.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance from an existing subject coating line from Section 218.205, Section 218.207, Section 218.215, or Section 218.216 of this Subpart to Section 218.204 of this Subpart; the owner or operator of a subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such The certification shall include:

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

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

C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(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 218.204(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 218.204(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 218.204(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 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day, 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 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line and certified product data sheets for each coating; and

D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 218.204(l)(4)(A) of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified product data sheets for each coating;-

E) For coating lines subject to the limitations of Section 218.204(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 218.204(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 218.204(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 218.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:

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

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

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

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

compliance with Section 218.205 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such The certification shall include:

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

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

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

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

E) For coating lines subject to the limitations of Section 218.204(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 218.204(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 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:

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

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

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

D) For coating lines subject to the limitations of Section 218.204(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 218.204(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.

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

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

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

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

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

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

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

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

B) Control device monitoring data.

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

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

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

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

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

f) Any owner or operator of a primer surfacer operation or topcoat operation, or combined primer surfacer and topcoat operation, subject to the limitations of Section 218.204(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 218.106 of this Part, or upon initial start-up of a new coating operation, the owner or operator of a subject coating operation shall certify to the Agency that the operation will be in compliance with Section 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such The certification shall include:

A) The name and identification number of each coating operation which will comply by means of Section 218.204(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.of this Section.

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

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

A) All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 218.204(a)(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 218.106 of this Part or on and after the initial start-up date, the owner or operator of a subject coating operation shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 218.204(a)(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 218.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:

A) Any record showing a violation of Section 218.204(a)(1)(B), (a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D) $\frac{(a)(2)}{(a)(2)}$ 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 218.106 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 218.219 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 218.219 of this Subpart;

B) For sources subject to Section 218.219(a)(6), the work practices plan specified in suchthat Section;

C) For sources subject to Section 218.219(b)(6), the application method(s)methods used to apply coatings on the subject coating line:

2) Notify the Agency of any violation of Section 218.219 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 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines

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

b) An owner or operator of pre-existing coating lines subject to a VOM content limitation in Section 218.204 of this Subpart and electing to rely on this Section to demonstrate compliance with this Subpart must establish, by use of the equations in subsection (d) of this Section, that the calculated actual daily VOM emissions from all participating coating lines, as defined <u>belowin</u> 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 218.212, 218.213, or 218.214 of this Subpart ("participating coating lines"), the source must establish that:

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

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

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

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

2) The replacement line was added after July 1, 1988; and

3) The owner or operator also includes as a participating coating line one or more coating lines that satisfy the criteria of a replacement line, as described in subsection (a) of this Section.

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

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

n Ed - ? Vi Ci 1-1-

where:

Ed = Actual daily VOM emissions from participating coating lines in units of kg/day (lbs/day); i = Subscript denoting a specific coating applied; n = Total number of coatings applied by all participating coating lines at the source; Vi = Volume of each coating applied for the day in units of l/day (gal/day) of coating 3(minus water and any compounds which are specifically exempted from the definition of VOM); and Ci andCi = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM). 2) The alternative daily emission limitation (Ad) shall be determined for all participating coating lines at the source on a daily basis as follows:

Ad = Al + Ap

where:

Ad <u>Al</u> and Ap are defined in subsections $(\underline{d})(2)(A)$ and $(\underline{d})(2)(B)$ of this Section.

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

n______ Al = ? Vi Li (Di - Ci) -_____i=1 ____(Di - Li) -

where:

Al = The VOM emissions allowed for the day in units of kg/day (lbs/day); i = Subscript denoting a specific coating applied; n = Total number of coatings applied in the participating coating lines; Ci = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); Di = The density of VOM in each coating applied. For the purposes of calculating Al, the density is 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM); Vi = Volume of each coating applied for the day in units of l (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and Li andLi = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

n Ap = ? <u>h=1 j=1 (Dj_____j)</u>

where:

Ap = 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 Total number of powder coatings applied in the coating lines; n = participating coating lines; Dj = The assumed density of VOM in liquid coating, 0.882 kg VOM/1 VOM (7.36 lbs VOM/gal VOM); Vj = Volume of each powder coating consumed for the day in units of 1 (gal) of coating; and Lj = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/1 (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and K and K and K constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be

determined by the source based on tests conducted and records maintained pursuant to the requirements of Section 218.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Test methods and recordkeeping requirements shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:

i) K cannot exceed 0.9 for non-recycled powder coating systems; or

ii) K cannot exceed 2.0 for recycled powder coating systems. (Source: Amended at 34 Ill. Reg. _____, effective______

Section 218.219 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 218.204(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 <u>suchthose</u> materials;

3) Minimize spills of VOM-containing coatings, thinners, and coatingrelated

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 218.204(a)(2). The plan shall specify practices and procedures that the source will follow to ensure that VOM emissions from the operations listed belowin 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 218.112 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 218.204(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, coatingrelated

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 $(\underline{qb})(\underline{6})(\underline{C})$, 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 $(\underline{qb})(\underline{6})(\underline{E})$, 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 suchthe 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 218.207(1)(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;

 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 218.890 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, and that emit 6.8 kg/day (15 lbs/day) or more of VOM, calculated in accordance with Section 218.894(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 218.894(a) of this Subpart.

(Source: Added at 34 Ill. Reg. ____, effective_____)

Section 218.891219.891 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:

Mi = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams.VOMi = 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.

 $\label{eq:VOMnm} VOMnm= \mbox{ Non-monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation.}$

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.

	monomer VC	Weighted average M content
		(weight percent) A)
Production resin i<u>resini</u>)	Atomized spray .	28
ii) Nonatomized:	<u>ii)</u> N	Ion-atomized35
B) Pigmented gel coat+	33	C) Clear
gel coat :	48	D) Tooling resin
i<u>resini</u>) Atomized:	30	ii)
Nonatomized:	<u>ii)Non-atomized</u> 3	9 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 = <u>=</u> <u>where:</u>

Where:

Mi = Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams VOMi = Monomer VOM content, by weight percent, of open molding resin or gel coat (i) used in the past 12 months in an operation = 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.

 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:

<u>Monomer</u> 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. <u>i</u>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.

<u>Mg:</u>MTR = Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in megagrams.

<u>Mg:</u>MTG = Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in <u>megagrams.Mg</u>. 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 <u>suchthe</u> 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-:PVR = Weighted-average monomer VOM emission rate for production resin used in the past 12 months, expressed in kilograms per megagramkg/Mg, calculated in accordance with Equation 4 <u>below.in subsection (c) (3)</u>: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 megagramkg/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 permegagramkg/Mg, calculated pursuant to Equation 4 below.iMCG = 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 megagramkg/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 permegagramkg/Mg, calculated pursuant to Equation 4 below.:MTG = Mass of tooling gel coat used in the past 12 months, expressed in megagramsMg. For purposes of Equation 3, the owner or operator of a source subject to 3) 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:

Equation 5 in subsection (e)(3) of this Section, as the value of PVi for <u>suchthose</u> 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 x (Resin

VOM%)2.425

ii) Atomized, plus vacuum bagging with roll-out: 0.01185 x (Resin VOM%)2.425

iii) Atomized, plus vacuum bagging without roll-out: 0.00945 x (Resin VOM%)2.425

iv) Nonatomized: 0.014

x (Resin VOM%)2.275

v) Nonatomized, plus vacuum bagging with roll-out: 0.0110 x (Resin VOM%)2.275

vi) Nonatomized, plus vacuum bagging without roll-out: 0.0076 x (Resin VOM%)2.275

B) Pigmented gel coat, clear gel coat, tooling gel coat: 0.445 x (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 <u>suchthat</u> 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 suchthat 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 suchthe control device, and suchthe 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 218.892 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 218.891(b) and (c) of this Subpart using Equation 5 belowin subsection (e)(3). If complying pursuant to Section 218.891(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 218.891(a).

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

resin applied;

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 kilogramskg monomer VOM per megagramMg of filled material....: PVU = The monomer VOM emission rate for the unfilled resin, before filler is added, calculated using the formulas in Section 218.891(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. SuchThese 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 218.112 of this Part, or for use in the construction of small passenger vessels regulated by 40 CFR Subchapter T, incorporated by reference in Section 218.112 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. <u>SuchThese</u> materials shall not exceed 1 percent, by weight, of all <u>resing</u> 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 <u>suchthese</u> resins with <u>nonatomizingnon-atomizing</u> resin application equipment, and the total amount of <u>suchthe</u> 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 resincesing 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:

 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 HgmmHg at 680- 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 218.892 Testing and Monitoring Requirements

a) Testing to demonstrate compliance with the requirements of Section 218.891 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 218.891(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 218.112 of this Part.

c) The owner or operator of a source complying with this Subpart pursuant to Section 218.891(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 218.891(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 218.891(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 218.891(d). The owner or operator shall continue to operate the fiberglass boat manufacturing process within <u>suchthe</u> parameters until another performance test is conducted that

demonstrates compliance with Section 218.891(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 <u>ten10</u> operating days <u>ofafter</u> the exceedance;

4) The methods and procedures of Section 218.105(d) and (f) shall be used for testing to demonstrate compliance with the requirements of Section 218.891(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 218.112 of this Part. The sampling sites for determining efficiency in reducing VOM from the dryer exhaust shall be located between the dryer exhaust and the control device inlet, and between the outlet of the control device and the exhaust to the atmosphere;

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 218.112 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 218.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

i) The allowable outlet concentration of VOM from the 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 source 50 ppmv, as carbon, the exhaust concentration is above 50 ppmv, as carbon, but the exhaust concentration is above 50 ppmv, as carbon, but the exhaust concentration is above 50 ppmv, as carbon, but the exhaust concentration is above 50 ppmv, as carbon, but the exhaust concentration is above 50 ppmv, as carbon, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest again using Method 25;

D) Notwithstanding the criteria or requirements in Method $\frac{2525}{25}$, which specifies a minimum probe temperature of 129? C (2650 FoF), the probe must be heated to at least the gas stream temperature of the dryer exhaust, typically close to 176.70C (3500 FoF); and

E) During testing, the fiberglass boat manufacturing operation shall be operated at representative operating conditions and flow rates r_{\pm}

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 $\frac{\text{device}(s) \text{devices}}{\text{devices}}$ with an accuracy of $3 \circ \text{CoC}$ or $5 \circ \text{FoF}$ on the emissions control system in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and

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

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 <u>suchthe</u> monitoring equipment as set forth in the owner<u>'s</u> or operator's plan approved by the Agency and USEPA pursuant to Section 218.891(d).

d) Testing to demonstrate compliance with the VOM content limitations for cleaning solutions in Section 218.891(g) of this Subpart, and with the nonmonomer VOM content limitations for resin and gel coat materials in Section 218.891(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 218.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference at Section 218.112 of this Part, shall be used to demonstrate compliance; or

2) For cleaning solvents, the manufacturer's specifications for VOM content may be used if <u>suchthe</u> manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 218.105(a) of this Part₇: 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 218.891(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 218.891(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 218.894(g) of this Subpart.

f) Testing to demonstrate compliance with the VOM composite partial vapor pressure limitation for cleaning solvents set forth in Section 218.891(g) of

this Subpart shall be conducted in accordance with the applicable methods and procedures set forth in Section 218.110 of this Part.

(Source: Added at 34 Ill. Reg. ____, effective_____)

Section 218.894 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 218.890(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 218.890(a);

B) Calculations whichthat 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 <u>suchthe</u> 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 218.891(h) of this Subpart;

G) A description of each fiberglass boat manufacturing operation exempt pursuant to Section 218.890(b) of this Subpart, if any;

H) A description of materials subject to Section 218.891(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 218.891(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 218.891 of this Subpart and complying by means of Section 218.891(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 218.891(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 218.891(b)(2), the daily weighted average VOM content of all subject resincesing 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 218.891 of this Subpart and complying by means of Section 218.891(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 218.891 of this Subpart and complying by means of Section 218.891(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 218.891(d);

B) The results of all tests and calculations necessary to demonstrate compliance with the requirements of Section 218.891(d); and

C) A declaration that the monitoring equipment required under Section 218.892 of this Subpart has been properly installed and calibrated according to manufacturer's specifications;

2) Within 90 days after conducting testing pursuant to Section 218.892, 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 218.891(d) have been properly performed;

B) A statement whether the fiberglass boat manufacturing operation(s)isoperations are or isare not in compliance with Section 218.891(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 218.892;

3) Collect and record daily the following information for each fiberglass boat manufacturing operation subject to the requirements of Section 218.891(d), and submit suchthat information to the Agency upon request: A) Afterburner or other approved control device monitoring data in accordance with Section 218.892 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 218.892.

f) The owner or operator of a source subject to the requirements in Section 218.891(f) of this Subpart shall collect and record the following information for each fiberglass boat manufacturing operation:

 The name and identification number of each material subject to Section 218.891(f) as applied each day by each subject fiberglass boat manufacturing operation;

2) If subject to Section 218.891(f)(2), the amount of production and tooling resinresins, and pigmented, clear, and tooling gel coats used for part or mold repair and touch <u>-</u>ups, used each month at the subject source, and the total amount of all <u>resinresins</u> and gel coats used each month at the subject source;

3) If subject to Section 218.891(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 218.891 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 218.891(g) of this Subpart and whichthat 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 218.892(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 218.891(g), and whichthat 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 218.892(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 218.891(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 218.892(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 218.110 of this Part.

(Source: Added at 34 Ill. Reg. ____, effective_____)

SUBPART JJ: MISCELLANEOUS INDUSTRIAL ADHESIVES

Section 218.900 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 218.904(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;
- Coil coating;
- J) Fabric coating;
- K) Rubber tire manufacturing.

2) The requirements of Section 218.901(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 218.904(a) of this Subpart.

(Source: Added at 34 Ill. Reg. _____, effective______

Section 218.901 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 218.900(b)(2) shall comply with the limitations in subsection (f) of this Section only.

b) The owner or operator of adhesive application operations listed belowin 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:

adhesive primer appli	<u>edlb</u> VOM/gal	adhesive	or_adhesiv	e or
adhesive				er applied
primer applied		sive applicati	-	les -
A <u>operationsA</u>)	Reinforced plastic	composite :	0.200	
(1.7)				
B) Flexible	vinyl :	0.250		.1)
C) Metal+		0.030	•	.3)
	cerial (except wood)+		(1	0)
E) Rubber+		0.250	(2.1)	
F) Wood+	0.030	(0.3	3)	G)
Other substrates+	0.250	(2.1)		and the second se
	adhesive application		and the second second second second	
tile installation+	0.130	(1.1)		B) Contact
adhesive		.1)	- ,	Cove base
installation+		.3)	D)	Indoor floor
covering	0.150 — (1	.3)		+
installation:		<u>0.150(1</u>		Outdoor floor
covering 0.2	· · · · · · · · · · · · · · · · · · ·			lation:
	<u>0.250(2.1)</u> F)	Installation c	of perimete	r bonded
$\frac{0.660}{(5.5)}$	1 . 52 . 1		18	
	sheet flooring:	-		
	al to urethane/rubber		850	(7.1)
molo		850(7,1)H) MC	tor vehicl	e adhesive :
0 0 0 0 0	ling or casting 1			
0.250	(2.1)		hicle weat	herstrip
0.250 <u>adhesive</u> 0.750	(2.1) (6.3)	I) Motor ve	chicle weat	5
adhesive0.750	(2.1) (6.3) adhesive:	I) Motor ve J) Mu	ehicle weat	5
adhesive0.750	(2.1) (6.3) adhesive: 0.200 (1	I) Motor ve J) Mu .7)	ehicle weat	Plastic
adhesive0.750 construction. solvent welding	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3	I) Motor ve J) Mu .7) .3)	ehicle weat ultipurpose K)	Plastic (acrylonitrile
adhesive0.750 construction+ solvent welding butadiene styrene	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS)	<pre>I) Motor ve</pre>	ehicle weat ultipurpose K)	Plastic (acrylonitrile Plastic
adhesive0.750 construction. solvent welding butadiene styrene solvent welding	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS) 0.500 (4	<pre>I) Motor ve</pre>	ehicle weat ultipurpose K) <u>400(3.3)</u> L)	Plastic (acrylonitrile Plastic (except ABS
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding)+ 0.500(4.2</pre>	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS) 0.500 (4 M) Sheet rubber	<pre>I) Motor ve J) Mu .7) .3) welding)+ 02) lining instal</pre>	ehicle weat ltipurpose K) <u>400(3.3)</u> L) .lation :	Plastic (acrylonitrile Plastic
adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding)+ 0.500(4.2 (7.1) N)	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS) 0.500 (4 M) Sheet rubber Single-ply roof me	<pre>I) Motor ve J) Mu .7) .3) welding) + <u>0.</u> .2) lining instal mbrane</pre>	ehicle weat ultipurpose K) <u>400(3.3)</u> L)	Plastic (acrylonitrile Plastic (except ABS 0.850
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding)+ 0.500(4.2 (7.1) N) (2.1)</pre>	(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS) 0.500 (4)M) Sheet rubber Single-ply roof me installation/repai	<pre>I) Motor ve J) Mu .7) .3) welding)+ <u>0.</u> .2) lining instal mbrane r (except</pre>	ehicle weat ltipurpose K) <u>400(3.3)</u> L) .lation :	Plastic (acrylonitrile Plastic (except ABS
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding) + 0.500(4.2 (7.1) N) (2.1) propylenediene</pre>	<pre>(2.1) (6.3) adhesive: 0.200 (1 0.400 (3 (ABS) 0.500 (4) M) Sheet rubber Single-ply roof me installation/repai monome</pre>	<pre>I) Motor ve J) Mu .7) .3) welding)+ <u>0.</u> .2) lining instal mbrane r (except r (EPDM) roof</pre>	ehicle weat ltipurpose K) <u>400(3.3)</u> L) lation÷ 0.250	Plastic (acrylonitrile Plastic (except ABS 0.850 ethylene
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding) + 0.500(4.2 (7.1) N) (2.1) propylenediene membrane) + 0.250(2.</pre>	<pre>(2.1) (6.3) adhesive: 0.200 (1 0.400</pre>	<pre>I) Motor ve J) Mu .7) .3) welding)+ Q. .2) lining instal mbrane r (except r (EPDM) roof lazing+</pre>	ehicle weat ltipurpose K) <u>400(3.3)</u> L) .lation : 0.250	Plastic (acrylonitrile Plastic (except ABS 0.850
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding) + 0.500(4.2 (7.1) N) (2.1) propylenediene membrane) + 0.250(2. (0.8) P)</pre>	<pre>(2.1) (6.3) adhesive: 0.200 (1 0.400</pre>	<pre>I) Motor ve J) Mu .7) .3) welding)+ Q. .2) lining instal mbrane r (except r (EPDM) roof lazing+</pre>	ehicle weat (1) (1) (1) (1) (1) (1) (1) (1)	Plastic (acrylonitrile Plastic (except ABS 0.850 ethylene
<pre>adhesive0.750 construction+ solvent welding butadiene styrene solvent welding welding) + 0.500(4.2 (7.1) N) (2.1) propylenediene membrane) + 0.250(2.</pre>	<pre>(2.1) (6.3) adhesive: 0.200 (1 0.400</pre>	<pre>I) Motor ve J) Mu .7) .3) welding)+ Q. .2) lining instal mbrane r (except r (EPDM) roof lazing+ e+</pre>	ehicle weat ltipurpose K) <u>400(3.3)</u> L) .lation : 0.250	Plastic (acrylonitrile Plastic (except ABS 0.850 ethylene

(1.4) 3) Adhes	ive primer application	process	es A<u>operationsA</u>) Motor
vehicle glass bonding	primer0.900	(7.5)	
	primer:	B)	Plastic solvent welding 🔤
<u>adhesive primer</u> 0.650	(5.4)		
	adhesive primer:		C) Single-ply roof
membrane 0.250	(2.1)		adhesive primer+
<u>0.250(2.1)</u> D) Other	adhesive primer :	0.250	(2.1)
c) No owner or opera	tor of a source subject	t to thi	s Subpart shall operate a
miscellaneous industria	l adhesive application	operati	on unless the daily-
weighted average VOM co	ntent of subject adhes	ives as	applied each day by suchthe

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.

Each Day

1) Weighted Average of VOM Content of Adhesives Applied

 i_1	n	<u>? Mi</u>		
 		? Mi	n	
_			.	

Where: where:

Subscript denoting a specific adhesive as applied; n = The number of different adhesives as applied each day by each miscellaneous industrial adhesive application operation; Mi = The mass of each adhesive, as applied, in units of kg/l (lb/gal); VOMi = 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

n Limit(WA) =	i_1	<u>? Mi I</u>	imiti
		? Mi	n
		. 111	- 1=1

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; Mi = The mass of
each adhesive, as applied, in units of kg/l (lb/gal); Limiti = The VOM limit,

taken from subsection (b) of this <u>sectionSection</u>, 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:

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 <u>Section 218.901subsection</u> (b) of this <u>SubpartSection</u> 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 <u>suchthe</u> 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;

High volume low pressure (HVLP) spray;

3) Flow coating. For the purposes of this Subpart, flow coating means a nonatomized 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 suchthose materials;

3) Minimize spills of VOM-containing adhesives, adhesive primers, processrelated 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 218.902 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 218.901(b) of this Subpart shall be conducted as follows.

1) Method 24, incorporated by reference in Section 218.112 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 218.112 of this Part, shall be used for reactive adhesives;

3) The manufacturer's specifications for VOM content for adhesives may be used if <u>suchthe</u> 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 218.105(d) through (f) of this Part shall be used for testing to demonstrate compliance with the requirements of Section 218.901(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 218.112 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 218.112 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 218.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used<u>.</u> 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 source to efficiency apparently has been met, but the source of the so

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 218.901(d) as set forth in the owner<u>'s</u> or operator's plan approved by the Agency and USEPA pursuant to Section 218.901(d) (3).

(Source: Added at 34 Ill. Reg. ____, effective_____)

Section 218.903 Monitoring Requirements

a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) of this Subpart shall:

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

2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring <u>device(s)devices</u>, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor_{1.}

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 218.901(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 218.901(d)(3).

(Source: Added at 34 Ill. Reg. ____, effective_____)

Section 218.904 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 218.900(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 218.900(a);

B) Calculations whichthat 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 <u>such record(s)those records</u> 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 218.901(f) of this Subpart;

G) A description of each adhesive application operation exempt pursuant to Section 218.900(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 218.901(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 suchthose records available to the Agency upon request.

c) The owner or operator of an adhesive application operation subject to the limitations of Section 218.901 of this Subpart and complying by means of Section 218.901(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 218.901(b).

d) The owner or operator of an adhesive application operation subject to the limitations of Section 218.901 of this Subpart and complying by means of Section 218.901(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 218.901(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 218.901 of this Subpart and complying by means of Section 218.901(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 218.901(d);

B) The results of all tests and calculations necessary to demonstrate compliance with the control requirements of Section 218.901(d); and

C) A declaration that the monitoring equipment required under Section 218.903 of this Subpart has been properly installed and calibrated according to manufacturer's specifications;

2) Within 90 days after conducting testing pursuant to Section 218.902 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) isoperations are in compliance with Section 218.901(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 218.901(d); and

C) The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.903 of this Subpart;

3) Collect and record daily the following information for each adhesive application operation subject to the requirements of Section 218.901(d):

A) Afterburner or other approved control device monitoring data in accordance with Section 218.903 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_____)

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ILLINOIS RECISTER

POLLUTION CONTROL BOARD

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NOTICE OF PROPOSED AMENDMENTS

Document comparison done by DeltaView on Monday, March 29, 2010 9:34:29 AM Input:

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Document 1	file://I:/Input/35-218-Agency(issue14).doc	
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Total changes	1340	

1ST NOTICE VERSION

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17	218.102	Applicability	
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388	AUTHORIT	Y: Implementing Section 10 and authorized by Sections 27, 28, and 28.5 of the					
389	Environmental Protection Act [415 ILCS 5/10, 27, 28, and 28.5].						
390							
391	SOURCE: A	dopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-					
392	24 at 16 Ill. F	eg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 III.					
393	Reg. 13864, 0	effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective					
394		, 1993; amended in R93-14 at 18 Ill. Reg. 1945, effective January 24, 1994;					
395		94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at					
396		6392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950,					
397		ember 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6848,					
398	effective May	79, 1995; amended in R94-33 at 19 Ill. Reg. 7359, effective May 22, 1995;					
399	amended in F	.96-13 at 20 Ill. Reg. 14428, effective October 17, 1996; amended in R97-24 at 21					
400	Ill. Reg. 7708	, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3556, effective					
401	February 2. 1	998; amended in R98-16 at 22 Ill. Reg. 14282, effective July 16, 1998; amended in					
402	R02-20 at 27	Ill. Reg. 7283, effective April 8, 2003; amended in R04-12/20 at 30 Ill. Reg. 9684,					
403	effective May	v 15, 2006; amended in R06-21 at 31 Ill. Reg. 7086, effective April 30, 2007;					
404	amended in R	.08-8 at 32 Ill. Reg. 14874, effective August 26, 2008; amended in R10-20 at 34 Ill.					
405	Reg.	effective					
406	0						
407		SUBPART A: GENERAL PROVISIONS					
408							
409	Section 218.	05 Test Methods and Procedures					
410							
411	a)	Coatings, Inks and Fountain Solutions					
412		The following test methods and procedures shall be used to determine					
413		compliance of as applied coatings, inks, and fountain solutions with the					
414		limitations set forth in this Part.					
415							
416		1) Sampling: Samples collected for analyses shall be one-liter taken into a					
417		one-liter container at a location and time such that the sample will be					
418		representative of the coating as applied (i.e., the sample shall include any					
419		dilution solvent or other VOM added during the manufacturing process).					
420		The container must be tightly sealed immediately after the sample is taken.					
421		Any solvent or other VOM added after the sample is taken must be					
422		measured and accounted for in the calculations in subsection (a)(3) of this					
423		Section. For multiple package coatings, separate samples of each					
424		component shall be obtained. A mixed sample shall not be obtained as it					
425		will cure in the container. Sampling procedures shall follow the					
426		guidelines presented in:					
427							
428		A) ASTM D 3925-81 (1985) standard practice for sampling liquid					
429		paints and related pigment coating. This practice is incorporated					
430		by reference in Section 218.112 of this Part.					

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431				
432		B)		A E 300-86 standard practice for sampling industrial
433			chemi	cals. This practice is incorporated by reference in Section
434			218.1	12 of this Part.
435				
436	2)	Analy	ses: Th	e applicable analytical methods specified below shall be
437		-		nine the composition of coatings, inks, or fountain solutions
438		as app		······································
439				
440		A)	Metho	od 24 of 40 CFR 60, Appendix A, incorporated by reference
441		11)		tion 218.112 of this Part, shall be used to determine the
442				content and density of coatings. If it is demonstrated to the
443				· · ·
444				action of the Agency and the USEPA that plant coating
				lation data are equivalent to Method 24 results, formulation
445				hay be used. In the event of any inconsistency between a
446				od 24 test and a facility's formulation data, the Method 24 test
447			will g	overn.
448		D)		
449		B)		od 24A of 40 CFR Part 60, Appendix A, incorporated by
450				nce in Section 218.112 of this Part, shall be used to
451				nine the VOM content and density of rotogravure printing
452				nd related coatings. If it is demonstrated to the satisfaction
453			of the	Agency and USEPA that the plant coating formulation data
454			are eq	uivalent to Method 24A results, formulation data may be
455			used.	In the event of any inconsistency between a Method 24A
456			test ar	nd formulation data, the Method 24A test will govern.
457				
458		C)	The fo	blowing ASTM methods are the analytical procedures for
459			detern	nining VOM:
460				
461			i)	ASTM D 1475-85: Standard test method for density of
462			-	paint, varnish, lacquer and related products. This test
463				method is incorporated by reference in Section 218.112 of
464				this Part.
465				
466			ii)	ASTM D 2369-87: Standard test method for volatile
467			/	content of a coating. This test method is incorporated by
468				reference in Section 218.112 of this Part.
469				
409			iii)	ASTM D 3792-86: Standard test method for water content
470				of water-reducible paints by direct injection into a gas
471				
472 473				chromatograph. This test method is incorporated by reference in Section 218.112 of this Part.
				Terefence in Section 210.112 of this Part.

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475			iv)	ASTM D 4017-81 (1987): Standard test method for water
476			,	content in paints and paint materials by the Karl Fischer
477				method. This test method is incorporated by reference in
478				Section 218.112 of this Part.
479				
480			v)	ASTM D 4457-85: Standard test method for determination
481			.)	of dichloromethane and 1,1,1, trichloroethane in paints and
482				coatings by direct injection into a gas chromatograph. (The
483				procedure delineated above can be used to develop
484				protocols for any compounds specifically exempted from
485				the definition of VOM.) This test method is incorporated by
486				reference in Section 218.112 of this Part.
487				
488			vi)	ASTM D 2697-86: Standard test method for volume non-
489			(-)	volatile matter in clear or pigmented coatings. This test
490				method is incorporated by reference in Section 218.112 of
491				this Part.
492				
493			vii)	ASTM D 3980-87: Standard practice for interlaboratory
494			<i>v</i> 11 <i>)</i>	testing of paint and related materials. This practice is
495				incorporated by reference in Section 218.112 of this Part.
496				
497			viii)	ASTM E 180-85: Standard practice for determining the
498			<i>vy</i>	precision data of ASTM methods for analysis of and testing
499				of industrial chemicals. This practice is incorporated by
500				reference in Section 218.112 of this Part.
501				
502			ix)	ASTM D 2372-85: Standard method of separation of
503			17)	vehicle from solvent-reducible paints. This method is
504				incorporated by reference in Section 218.112 of this Part.
505				incorporated by reference in Section 218.112 of this I art.
506		D)	Lise of	an adaptation to any of the analytical methods specified in
507		D)		tions (a)(2)(A), (B), and (C) of this Section may not be used
508				approved by the Agency and USEPA. An owner or
509				or must submit sufficient documentation for the Agency and
510				A to find that the analytical methods specified in subsections
511				A to find that the analytical methods specified in subsections A), (B), and (C) of this Section will yield inaccurate results
512				
513			and th	at the proposed adaptation is appropriate.
515	3)	Calant	otiona	Calculations for determining the VOM content water
	3)			Calculations for determining the VOM content, water
515				e content of any compounds which are specifically the definition of VOM of eactings, intra and fountain
516		exemp	iea mor	n the definition of VOM of coatings, inks and fountain

C.

518 docum	ons as applied shall follow the guidance provided in the following nents:
519	
520 A)	"A Guide for Surface Coating Calculation", EPA-340/1-86-016,
521	incorporated by reference in Section 218.112 of this Part.
522	
523 B)	"Procedures for Certifying Quantity of Volatile Organic
524	Compounds Emitted by Paint, Ink and Other Coatings" (revised
525	June 1986), EPA-450/3-84-019, incorporated by reference in
526	Section 218.112 of this Part.
527	
528 C)	"A Guide for Graphic Arts Calculations", August 1988, EPA-
529	340/1-88-003, incorporated by reference in Section 218.112 of this
530	Part.
531	
b) Automobile o	r Light-Duty Truck Test Protocol
533	
534 1) The pr	rotocol for testing, including determining the transfer efficiency of
535 coating	g applicators, at primer surfacer operations and topcoat operations at
536 an aut	omobile or light-duty truck assembly source shall follow the
537 proced	lures in the following:
538	
539 <u>A)</u>	Prior to May 1, 2011: "Protocol for Determining the Daily
540	Volatile Organic Compound Emission Rate of Automobile and
541	Light-Duty Truck Topcoat Operations" ("topcoat protocol"),
542	December 1988, EPA-450/3-88-018, incorporated by reference in
543	Section 218.112 of this Part.
544	
545 <u>B)</u>	On and after May 1, 2011: "Protocol for Determining the Daily
546	Volatile Organic Compound Emission Rate of Automobile and
547	Light-Duty Truck Primer-Surfacer and Topcoat Operations"
548	(topcoat protocol), September 2008, EPA-453/R-08-002,
549	incorporated by reference in Section 218.112 of this Part.
550	
551 2) Prior t	o testing pursuant to the applicable topcoat protocol, the owner or
552 operate	or of a coating operation subject to the topcoat or primer surfacer
553 limit in	n <u>Section</u> Sections 218.204(a)(1)(B),(2) or 218.204 (a)(1)(C)(3),
554 <u>(a)(2)(</u>	(B), (a)(2)(C), or (a)(2)(E) shall submit a detailed testing proposal
	ying the method by which testing will be conducted and how
•	iance will be demonstrated consistent with the applicable topcoat
=	ol. The proposal shall include, at a minimum, a comprehensive plan
	ding a rationale) for determining the transfer efficiency at each booth
559 throug	the use of in-plant or pilot testing, the selection of coatings to be

560 561 562 563 564 565 566 567 568			rationa VOM of as a conten demor	(for the purpose of determining transfer efficiency) including the ale for coating groupings, the method for determining the analytic content of as applied coatings and the formulation solvent content pplied coatings, and a description of the records of coating VOM at as applied and coating's usage <u>thatwhich</u> will be kept to astrate compliance. Upon approval of the proposal by the Agency SEPA, the compliance demonstration for a coating line may ed.
569	c)	Captu	re Syste	m Efficiency Test Protocols
570				
571		1)		cability
572			The re	quirements of subsection (c)(2) of this Section shall apply to all
573			VOM	emitting process emission units employing capture equipment (e.g.,
574			hoods	ducts), except those cases noted in this subsection $(c)(1)$.
575				
576			A)	If an emission unit is equipped with (or uses) a permanent total
577				enclosure (PTE) that meets Agency and USEPA specifications,
578				and which directs all VOM to a control device, then the emission
579				unit is exempted from the requirements described in subsection
580				(c)(2) of this Section. The Agency and USEPA specifications to
581				determine whether a structure is considered a PTE are given in
582				Method 204 of Appendix M of 40 CFR Part-51, incorporated by
583				reference in Section 218.112 of this Part. In this instance, the
584				capture efficiency is assumed to be 100 percent and the emission
585				unit is still required to measure control efficiency using appropriate
586				test methods as specified in subsection (d) of this Section.
587				
588			B)	If an emission unit is equipped with (or uses) a control device
589				designed to collect and recover VOM (e.g., carbon adsorber), an
590				explicit measurement of capture efficiency is not necessary
591 502				provided that the conditions given below are met. The overall
592				control of the system can be determined by directly comparing the
593 594				input liquid VOM to the recovered liquid VOM. The general
594 595				procedure for use in this situation is given in 40 CFR 60.433,
595 596				incorporated by reference in Section 218.112 of this Part, with the
590 597				following additional restrictions:
598				i) Unless otherwise specified in subsection (c)(1)(B)(ii)
598 599				below, the owner or operator shall obtain data each
600				operating day for the solvent usage and solvent recovery to
601				permit the determination of the solvent recovery efficiency
602				of the system each operating day using a 7-day rolling
				or the system outh operating day using a 7-day folling

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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 at Section 218.112 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 alterative 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)(iii) or subsection (c)(1)(B)(iv) below-must be met.

The owner or operator of the source engaged in printing ii) located at 350 E. 22nd Street, Chicago, Illinois, 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 14-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 13 operating days to the total solvent usage for the same 14-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 218.112 of this Part. This ratio shall be expressed as a percentage. The ratio shall be computed within 17 days following each 14-day period. In addition, the criteria in subsection (c)(1)(B)(iii) or subsection (c)(1)(B)(iv) below must be met.

- iii) 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
- iv) 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

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646 647		exceed the most stringent standard applicable to any line or
648		other discrete activity venting to the control system.
649	2) Comt	
		ure Efficiency Protocols
650 651		capture efficiency of an emission unit shall be measured using one of
651		protocols given below. Appropriate test methods to be utilized in
652		of the capture efficiency protocols are described in Appendix M of
653		FR Part 51, incorporated by reference at Section 218.112 of this Part.
654		error margin associated with a test method or protocol may not be
655		porated into the results of a capture efficiency test. If these
656		iques are not suitable for a particular process, then an alternative
657	_	re efficiency protocol may be used, pursuant to the provisions of
658	Secti	on 218.108(b) of this Part.
659		
660	A)	Gas/gas method using temporary total enclosure (TTE). The
661		Agency and USEPA specifications to determine whether a
662		temporary enclosure is considered a TTE are given in Method 204
663		of Appendix M of 40 CFR Part 51, incorporated by reference in
664		Section 218.112 of this Part. The capture efficiency equation to be
665		used for this protocol is:
666		_
667		$CE = \frac{G_w}{G_w + F}$
		$G_w + F_w$
668		
669		where:
670		
		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.
671		
672		Method 204B or 204C contained in Appendix M of 40 CFR Part
673		51, incorporated by reference in Section 218.112 of this Part, is
674		used to obtain G _w . Method 204D in Appendix M of 40 CFR Part
675		51, incorporated by reference in Section 218.112 of this Part of this
676		Part, is used to obtain Fw.
677		
678	B)	Liquid/gas method using TTE. The Agency and USEPA
679		specifications to determine whether a temporary enclosure is
680		considered a TTE are given in Method 204 of Appendix M of 40
681		CFR Part-51, incorporated by reference in Section 218.112 of this
682		Part. The capture efficiency equation to be used for this protocol
683		is:

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684		
685		$CE = \frac{L - F_w}{L}$
686		
687		where:
688		
689		$\begin{array}{llllllllllllllllllllllllllllllllllll$
690		Mathed 204A on 204E contained in A 11 March 200 DD D
		Method 204A or 204F contained in Appendix M of 40 CFR Part
691 602		51, incorporated by reference in Section 218.112 of this Part, is
692 (02		used to obtain L. Method 204 D in Appendix M of 40 CFR Part 51,
693 604		incorporated by reference in Section 218.112 of this Part, is used to
694 695		obtain F _w .
696	\sim	
697	C)	Gas/gas method using the building or room (building or room
698		enclosure), in which the affected coating line, printing line or other
699		emission unit is located, as the enclosure as determined by Method
700		204 of Appendix M of 40 CFR Part-51, incorporated by reference
700		in Section 218.112 of this Part, and in which " F_B " and "G" are
701		measured while operating only the affected line or emission unit.
702		All fans and blowers in the building or room must be operated as they would under normal production. The capture efficiency
703		equation to be used for this protocol is:
705		equation to be used for this protocol is.
706		$CE = \frac{G}{G + F_{p}}$
707		$G + F_B$
707		1
708		where:
709		 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.
710		
711		Method 204B or 204C contained in Appendix M of 40 CFR Part
712		51, incorporated by reference in Section 218.112 of this Part is
713		used to obtain G. Method 204E in Appendix M of 40 CFR Part 51,
714		incorporated by reference in Section 218.112 of this Part is used to
715		obtain F _B .
716		_

e E

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 218.112 of this Part, and in which "F_B" and "L" 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:

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

where:

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.

Method 204A or 204F contained in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 of this Part is used to obtain L. Method 204E in Appendix M of 40 CFR Part 51, incorporated by reference in Section 218.112 of this Part is used to obtain F_B .

E) Mass balance using Data Quality Objective (DOO) 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 218.112 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 218.112 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 218.112 of this Part. The results of capture efficiency calculations (G/L) must satisfy the DOO or LCL statistical analysis protocol as described in Section 3 of USEPA's "Guidelines for Determining Capture Efficiency," incorporated by reference at Sectionin 218.112 of this Part. Where capture efficiency testing is done to determine emission reductions for the purpose of establishing emission

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755			credits for offsets, shutdowns, and trading, the LCL protocol
756			cannot be used for these applications. In enforcement cases, the
757			LCL protocol cannot confirm non-compliance; capture efficiency
758			must be determined using a protocol under subsection $(c)(2)(A)$,
759			(B), (C) or (D) of this Section, the DQO protocol of this subsection
760			(c)(2)(E), or an alternative protocol pursuant to Section 218.108(b)
761			of this Part.
762			
763			POADD NOTE: Where I CI was used in testing emission write
			BOARD NOTE: Where LCL was used in testing emission units
764			that are the subject of later requests for establishing emission
765			credits for offsets, shutdowns, and trading, prior LCL results may
766			not be relied upon to determine the appropriate amount of credits.
767			Instead, to establish the appropriate amount of credits, additional
768			testing may be required that would satisfy the protocol of Section
769			218.105(c)(2)(A), (B), (C) or (D), the DQO protocol of Section
770			218.105(c)(2)(E), or an alternative protocol pursuant to Section
771			218.108(b) of this Part.
772			
773	3)	Simu	ltaneous testing of multiple lines or emission units with a common
774	<i>.</i>		ol device. If an owner or operator has multiple lines sharing a
775			non control device, the capture efficiency of the lines may be tested
776			taneously, subject to the following provisions:
777		Sinnar	
778		A)	Multiple line testing must meet the criteria of Section 4 of
779			USEPA's "Guidelines for Determining Capture Efficiency, "
780			incorporated by reference at Section 218.112 of this Part;
781			incorporated by reference at Section 218.112 of this Part,
		D)	The most stringent conture officiance required for any individual
782		B)	The most stringent capture efficiency required for any individual
783			line or unit must be met by the aggregate of lines or units; and
784			
785		C)	Testing of all the lines of emission units must be performed with
786			the same capture efficiency test protocol.
787			
788	4)	Recor	rdkeeping and Reporting
789			
790		A)	All owners or operators affected by this subsection must maintain a
791		-	copy of the capture efficiency protocol submitted to the Agency
792			and the USEPA on file. All results of the appropriate test methods
793			and capture efficiency protocols must be reported to the Agency
794			within 60 days <u>after</u> of the test date. A copy of the results must be
795			kept on file with the source for a period of 3 years.
796			
797		B)	If any changes are made to capture or control equipment, then the
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798 799 800 801			e is required to notify the Agency and the USEPA of these es and a new test may be required by the Agency or the A.
802 803 804 805 806 807 808 809 810 811	C)	any ca notify device and ex workin at its d provid	purce must notify the Agency 30 days prior to performing pture efficiency or control test. At that time, the source must the Agency which capture efficiency protocol and control e test methods will be used. Notification of the actual date spected time of testing must be submitted a minimum of 5 ing days prior to the actual date of the test. The Agency may discretion accept notification with shorter advance notice led that such arrangements do not interfere with the Agency's to review the protocol or observe testing.
812 813 814 815 816	D)	the rec Part 5	es utilizing a PTE must demonstrate that this enclosure meets quirements given in Method 204 in Appendix M of 40 CFR 1, incorporated by reference in Section 218.112 of this Part, TE during any testing of their control device.
817 818 819 820 821 822 823	E)	require 51, inc TTE d provid	es utilizing a TTE must demonstrate that their TTE meets the ements given in Method 204 in Appendix M of 40 CFR Part corporated by reference in Section 218.112 of this Part, for a uring testing of their control device. The source must also be documentation that the quality assurance criteria for a TTE been achieved.
824 825 826	F)	-	ource utilizing the DQO or LCL protocol must submit the ing information to the Agency with each test report:
827 828 829 830 831		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 218.112 of this Part;
832 833 834 835		ii)	A table with information on each sample taken, including the sample identification and the VOM content of the sample;
836 837		iii)	The quantity of material used for each test run;
838 839		iv)	The quantity of captured VOM for each test run;

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840 841				v)	The capture efficiency calculations and results for each test run;
842 843 844				vi)	The DQO and/or LCL calculations and results; and
845 846				vii)	The Quality Assurance/Quality Control results, including how often the instruments were calibrated, the calibration
847 848					results, and the calibration gases used.
849	d)	Contro	1 Devie	e Effici	ency Testing and Monitoring
850	u)	Cond			lency resting and wontoning
851		1)	The co	ntrol de	evice efficiency shall be determined by simultaneously
852		1)			inlet and outlet gas phase VOM concentrations and gas
853					w rates in accordance with the gas phase test methods
854					bsection (f) of this Section.
855			speein		
856		2)	An ow	mer or o	operator:
857		,			F
858			A)	That u	ses an afterburner or carbon adsorber to comply with any
859					n of Part 218 shall use Agency and USEPA approved
860					uous monitoring equipment which is installed, calibrated,
861					ined, and operated according to vendor specifications at all
862					the control device is in use except as provided in subsection
863					of this Section. The continuous monitoring equipment must
864					or the following parameters:
865					
866				i)	For each afterburner which does not have a catalyst bed,
867					the combustion chamber temperature of each afterburner.
868					-
869				ii)	For each afterburner which has a catalyst bed, commonly
870					known as a catalytic afterburner, the temperature rise
871					across each catalytic afterburner bed or VOM concentration
872					of exhaust.
873					
874				iii)	For each carbon adsorber, the VOM concentration of each
875					carbon adsorption bed exhaust or the exhaust of the bed
876					next in sequence to be desorbed.
877					
878			B)) Must install, calibrate, operate and maintain, in accordance with	
879			manufacturer's specifications, a continuous recorder on the		
880				-	rature monitoring device, such as a strip chart, recorder or
881				-	iter, having an accuracy of ± 1 percent of the temperature
882				measu	red in degrees Celsius or $\pm 0.5^{\circ}$ C, whichever is greater.

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884	C)	Of an	automobile or light-duty truck primer surfacer operation or
885	2		at operation subject to subsection (d)(2)(A)-above, shall keep
886			rate record of the following data for the control devices,
887		-	alternative provisions are set forth in a permit pursuant to
888			/ of the Clean Air Act:
889			
890		i)	For thermal afterburners for which combustion chamber
891		-/	temperature is monitored, all 3-hour periods of operation in
892			which the average combustion temperature was more than
893			$28^{\circ}C$ (50°F) below the average combustion temperature
894			measured during the most recent performance test that
895			demonstrated that the operation was in compliance.
896			
897		ii)	For catalytic afterburners for which temperature rise is
898		,	monitored, all 3-hour periods of operation in which the
899			average gas temperature before the catalyst bed is more
900			than 28° C (50°F) below the average gas temperature
901			immediately before the catalyst bed measured during the
902			most recent performance test that demonstrated that the
903			operation was in compliance.
904			operation was in compliance.
905		iii)	For catalytic afterburners and carbon adsorbers for which
906		111)	VOM concentration is monitored, all 3-hour periods of
907			operation during which the average VOM concentration or
908			the reading of organics in the exhaust gases is more than 20
909			
910			percent greater than the average exhaust gas concentration
911			or reading measured by the organic monitoring device
912			during the most recent determination of the recovery
			efficiency of a carbon adsorber or performance test for a
913			catalytic afterburner, which determination or test
914			demonstrated that the operation was in compliance.
915	2)		
916			operator that uses a carbon adsorber to comply with Section
917			s Part may operate the adsorber during periods of
918	mo	onitoring eq	uipment malfunction, provided that:
919		T 1	
920	A)		wher or operator notifies in writing the Agency within, 10
921			fter the conclusion of any 72 hour period during which the
922			er is operated and the associated monitoring equipment is
923			erational, of such monitoring equipment failure and provides
924			ration of the malfunction, a description of the repairs made
925		to the	equipment, and the total to date of all hours in the calendar

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926				year during which the adsorber was operated and the associated
927				monitoring equipment was not operational;
928				
929			B)	During such period of malfunction the adsorber is operated using
930				timed sequences as the basis for periodic regeneration of the
931				adsorber;
932				
933			C)	The period of such adsorber operation does not exceed 360 hours
934				in any calendar year without the approval of the Agency and
935				USEPA; and
936				
937			D)	The total of all hours in the calendar year during which the
938				adsorber was operated and the associated monitoring equipment
939				was not operational shall be reported, in writing, to the Agency and
940				USEPA by January 31 st of the following calendar year.
941				
942	e)	Overa	ll Effici	iency
943	10-10 P 04			·
944		1)	The o	verall efficiency of the emission control system shall be determined
945				product of the capture system efficiency and the control device
946				ency or by the liquid/liquid test protocol as specified in 40 CFR
947				3, incorporated by reference in Section 218.112 of this Part, (and
948				d by subsection (c)(1)(B) of this Section) for each solvent recovery
949				n. In those cases in which the overall efficiency is being determined
950			-	entire line, the capture efficiency used to calculate the product of
951				pture and control efficiency is the total capture efficiency over the
952			entire	
953				
954		2)	For co	pating lines which are both chosen by the owner or operator to
955		,		y with Section 218.207(c), (d), (e), (f), or (g) of this Part by the
956				ative in Section 218.207(b)(2) of this Part and meet the criteria
957				ng them to comply with Section 218.207 of this Part instead of
958				n 218.204 of this Part, the overall efficiency of the capture system
959				ontrol device, as determined by the test methods and procedures
960				ied in subsections (c), (d) and (e)(1) of this Section, shall be no less
961			-	he equivalent overall efficiency which shall be calculated by the
962				ving equation:
963				
964				$E = \frac{VOM_a - VOM_l}{VOM_a} \times 100$
0.65				V UIVI a
965				
966			where	
967				

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- 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) of this Section in units of kg VOM/1 (lb VOM/gal) of coating solids as applied;
- VOM_1 = The VOM emission limit specified in Section 218.204 or 218.205 of this Part in units of kg VOM/ ℓ (lb VOM/gal) of coating solids as applied.

969 f) Volatile Organic Material Gas Phase Source Test Methods.
970 The methods in 40 CFR Part-60, Appendix A, incorporated by reference in
971 Section 218.112 of this Part delineated below shall be used to determine control
972 device efficiencies.
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- 40 CFR Part-60, Appendix A, Method 18, 25 or 25A, incorporated by reference in Section 218.112 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 minutes, 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 absorber vessels.
 - B) When the method is to be used to determine the efficiency of a carbon adsorption system with individual exhaust stacks for each absorber vessel, each adsorber vessel shall be tested individually. The test for each absorber vessel shall consist of three separate runs. Each run shall coincide with one or more complete adsorption cycles.
- 9972)40 CFR Part-60, Appendix A, Method 1 or 1A, incorporated by reference998in Section 218.112 of this Part, shall be used for sample and velocity

999 traverses. 1000 1001 3) 40 CFR Part 60, Appendix A, Method 2, 2A, 2C or 2D, incorporated by 1002 reference in Section 218.112 of this Part, shall be used for velocity and volumetric flow rates. 1003 1004 1005 4) 40 CFR Part 60, Appendix A, Method 3, incorporated by reference in 1006 Section 218.112 of this Part, shall be used for gas analysis. 1007 1008 5) 40 CFR Part 60, Appendix A, Method 4, incorporated by reference in 1009 Section 218.112 of this Part, shall be used for stack gas moisture. 1010 1011 6) 40 CFR Part-60, Appendix A, Methods 2, 2A, 2C, 2D, 3 and 4, 1012 incorporated by reference in Section 218.112 of this Part, shall be 1013 performed, as applicable, at least twice during each test run. 1014 1015 7) Use of an adaptation to any of the test methods specified in subsections 1016 (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 1017 1018 owner or operator must submit sufficient documentation for the Agency 1019 and the USEPA to find that the test methods specified in subsections 1020 (f)(1), (2), (3), (4), (5) and (6) of this Section will yield inaccurate results 1021 and that the proposed adaptation is appropriate. 1022 1023 Leak Detection Methods for Volatile Organic Material g) Owners or operators required by this Part to carry out a leak detection monitoring 1024 1025 program shall comply with the following requirements: 1026 1027 1) Leak Detection Monitoring 1028 1029 A) Monitoring shall comply with 40 CFR 60, Appendix A, Method 1030 21, incorporated by reference in Section 218.112 of this Part. 1031 1032 The detection instrument shall meet the performance criteria of B) 1033 Method 21. 1034 1035 C) The instrument shall be calibrated before use on each day of its use 1036 by the methods specified in Method 21. 1037 1038 D) Calibration gases shall be: 1039 1040 i) Zero air (less than 10 ppm of hydrocarbon in air); and 1041

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1042				ii) A mixture of methane or n-hexane and air at a
1043				concentration of approximately, but no less than, 10,000
1044				ppm methane or n-hexane.
1045				
1046			E)	The instrument probe shall be traversed around all potential leak
1047			,	interfaces as close to the interface as possible as described in
1048				Method 21.
1049				
1050		2)	When	equipment is tested for compliance with no detectable emissions as
1051		2)		red, the test shall comply with the following requirements:
1052			requi	ed, the test shall comply with the following requirements.
1052			A \	The requirements of subsections $(-)(1)(A)$ through $(-)(1)(E) = 0(1)$
			A)	The requirements of subsections $(g)(1)(A)$ through $(g)(1)(E)$ of this
1054				Section above shall apply.
1055				
1056			B)	The background level shall be determined as set forth in Method
1057				21.
1058		•		
1059		3)	Leak	detection tests shall be performed consistent with:
1060				
1061			A)	"APTI Course SI 417 controlling Volatile Organic Compound
1062				Emissions from Leaking Process Equipment", EPA-450/2-82-015,
1063				incorporated by reference in Section 218.112 of this Part.
1064				
1065			B)	"Portable Instrument User's Manual for Monitoring VOC Sources",
1066				EPA-340/1-86-015, incorporated by reference in Section 218.112
1067				of this Part.
1068				
1069			C)	"Protocols for Generating Unit-Specific Emission Estimates for
1070				Equipment Leaks of VOC and VHAP", EPA-450/3-88-010,
1071				incorporated by reference in Section 218.112 of this Part.
1072				
1073			D)	"Petroleum Refinery Enforcement Manual", EPA-340/1-80-008,
1074				incorporated by reference in Section 218.112 of this Part.
1075				
1076	h)	Bulk	Gasolin	e Delivery System Test Protocol
1077	-			
1078		1)	The m	ethod for determining the emissions of gasoline from a vapor
1079		~		ery system are delineated in 40 CFR 60, Subpart XX, Section
1080				3, incorporated by reference in Section 218.112 of this Part.
1081				
1082		2)	Other	tests shall be performed consistent with:
1083		/		r
1084			A)	"Inspection Manual for Control of Volatile Organic Emissions
			,	

1085			from Gasoline Marketing Onerotional Annendix D" EDA 240/1
1085			from Gasoline Marketing Operations: Appendix D", EPA-340/1- 80-012, incorporated by reference in Section 218.112 of this Part.
1087			
1088		B)	"Control of Hydrocarbons from Tank Truck Gasoline Loading
1089		_,	Terminals: Appendix A", EPA-450/2-77-026, incorporated by
1090			reference in Section 218.112 of this Part.
1091			
1092	i)	Notwithst	anding other requirements of this Part, upon request of the Agency
1093	,	where it is	s necessary to demonstrate compliance, an owner or operator of an
1094			unit which is subject to this Part shall, at his own expense, conduct tests
1095			ince with the applicable test methods and procedures specific in this
1096			hing in this Section shall limit the authority of the USEPA pursuant to
1097		the Clean	Air Act, as amended, to require testing.
1098			
1099	j)	Stage II C	asoline Vapor Recovery Test Methods
1100		The meth	ods for determining the acceptable performance of Stage II Gasoline
1101		Vapor Re	covery System are delineated in "Technical Guidance-Stage II Vapor
1102		Recovery	Systems for Control of Vehicle Refueling Emissions at Gasoline
1103		Dispensin	g Facilities," found at EPA 450/3-91-022b and incorporated by
1104			in Section 218.112 of this Part. Specifically, the test methods are as
1105		follows:	
1106			
1107			mamic Backpressure Test is a test procedure used to determine the
1108			essure drop (flow resistance) through balance vapor collection and
1109			ntrol systems (including nozzles, vapor hoses, swivels, dispenser piping
1110		an	d underground piping) at prescribed flow rates.
1111			
1112			essure Decay/Leak Test is a test procedure used to quantify the vapor
1113		-	htness of a vapor collection and control system installed at gasoline
1114		dis	spensing facilities.
1115		a)	
1116			quid Blockage Test is a test procedure used to detect low points in any
1117		va	por collection and control system where condensate may accumulate.
1118	(0	A	
1119	(Sourc	e: Amendo	ed at 34 Ill. Reg, effective)
1120	Q	AC (Carrier)	Provide De 4 a
1121	Section 218.1	vo Compl	lance Dates
1122		Everter	otherwise provided in this Section or as all and in this is in the
1123	a)		otherwise provided in this Section or as otherwise provided in a specific
1124 1125			f this Part, compliance with the requirements of all rules is required by
1125			91, or September 1, 1991, for all sources located in Cook, DuPage,
1120			te, McHenry, or Will Counties, consistent with the appropriate of Section 218.103 of this Subpart.
1141		Provisions	or section 218.105 of this subpart.

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1128	1)	Encent on othermalia and in this Gratian and a thermit and it is a set of			
1129	b)	Except as otherwise provided in this Section or as otherwise provided in a specific			
1130		Subpart of this Part, compliance with the requirements of this Part is required by			
1131		November 15, 1993, for all sources located in Aux Sable Township or Goose			
1132		Lake Township in Grundy County, or in Oswego Township in Kendall County.			
1133	,				
1134	c)	All emission units which meet the applicability requirements of Sections			
1135		218.402(a)(2), 218.611(b), 218.620(b), 218.660(a), 218.680(a), 218.920(b),			
1136		218.940(b), 218.960(b) or 218.980(b) of this Part, including emission units at			
1137		sources which are excluded from the applicability criteria of Sections			
1138		218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a), or			
1139		218.980(a) of this Part by virtue of permit conditions or other enforceable means,			
1140		must comply with the requirements of Subparts H, Z, AA, CC, DD, PP, QQ, RR			
1141		or TT of this Part, respectively, by March 15, 1995. Any owner or operator of an			
1142		emission unit which has already met the applicability requirements of Sections			
1143		218.402(a)(1), 218.611(a), 218.620(a), 218.920(a), 218.940(a), 218.960(a)			
1144		218.980(a) of this Part on or by the effective date of this subsection is required to			
1145		comply with all compliance dates or schedules found in Sections 218.106(a) or			
1146		218.106(b), as applicable.			
1147					
1148	d)	Any owner or operator of a source with an emission unit subject to the			
1149		requirements of Section 218.204(m)(2) or (m)(3) of this Part shall comply with			
1150		those requirements by March 25, 1995.			
1151					
1152	<u>e)</u>	Any owner or operator of a source subject to the requirements of Section			
1153		218.204(a)(2) or 218.204(q) of this Part shall comply with the applicable			
1154		requirements in those Sections, as well as all applicable requirements in Sections			
1155		218.205 through 218.214 and 218.219, by May 1, 2011.			
1156					
1157	(Sour	ce: Amended at 34 Ill. Reg, effective)			
1158					
1159	Section 218.	112 Incorporations by Reference			
1160					
1161	The followin	g materials are incorporated by reference and do not contain any subsequent			
1162	additions or a				
1163					
1164	a)	American Society for Testing and Materials, 100 Barr Harbor Drive, West			
1165	,	Conshohocken, PA 19428-9555:			
1166					
1167		1) ASTM D 2879-86			
1168					
1169		2) ASTM D 323-82			
1170					

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1171	3)	ASTM D 86-82
1172	0	
1173	4)	ASTM D 369-69 (1971)
1174	-	
1175	5)	ASTM D 396-69
1176		
1177	6)	ASTM D 2880-71
1178	-	
1179	7)	ASTM D 975-68
1180		
1181	8)	ASTM D 3925-81 (1985)
1182	- `	
1183	9)	ASTM E 300-86
1184		
1185	10)	ASTM D 1475-85
1186		
1187	11)	ASTM D 2369-87
1188		
1189	12)	ASTM D 3792-86
1190		
1191	13)	ASTM D 4017-81 (1987)
1192		
1193	14)	ASTM D 4457-85
1194		
1195	15)	ASTM D 2697-86
1196		
1197	16)	ASTM D 3980-87
1198	,	
1199	17)	ASTM E 180-85
1200	,	
1201	18)	ASTM D 2372-85
1202		
1203	19)	ASTM D 97-66
1204		
1205	20)	ASTM E 168-67 (1977)
1206	,	
1207	21)	ASTM E 169-87
1208	,	
1209	22)	ASTM E 260-91
1210	,	
1211	23)	ASTM D 2504-83
1212	,	
1212	24)	ASTM D 2382-83
	,	

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 1215 25) ASTM D 323-82 (approved 1982) 1216 26) ASTM D 2099-00 1218 1219 b) Standard Industrial Classification Manual, published by Executive Office of the President, Office of Management and Budget, Washington, D.C., 1987. 1221 c) American Petroleum Institute Bulletin 2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980. 1224 d) 40 CFR 60 (July 1, 1991) and 40 CFR 60, Appendix A, Method 24 (57 FR 30654, July 10, 1992). 1226 e) 40 CFR 61 (July 1, 1991). 1230 f) 40 CFR 50 (July 1, 1991). 1231 g) 40 CFR 50 (July 1, 1991). 1232 g) 40 CFR 50 (July 1, 1991) and 40 CFR Part-51, Appendix M, Methods 204-204F (July 1, 1999). 1234 h) 40 CFR 52 (July 1, 1991). 1235 h) 40 CFR 52 (July 1, 1991) and 40 CFR Part-51, Appendix M, Methods 204-204F (July 1, 1999). 1234 h) 40 CFR 52 (July 1, 1991) and 40 CFR Part-51, Appendix M, Methods 204-204F (July 1, 1999). 1234 h) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). 1236 h) 40 CFR 52 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). 1234 h) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). 1236 h) 40 CFR 52 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). 1240 j) "A Guide for Surface Coating Calculation", July 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016. 1247 l) "A Guide for Graphic Arts Calculations", August 1988, United States Environmental Protection Agency, Washington, D.C., EPA-450/3-84-019. 1246 h) "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. 1250 m) "Protocol of Volatile Organic Emissions from Manufacturin	1214		
 1216 26) ASTM D 2099-00 2118 219 b) Standard Industrial Classification Manual, published by Executive Office of the President, Office of Management and Budget, Washington, D.C., 1987. 1221 222 c) American Petroleum Institute Bulletin 2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980. 1224 225 d) 40 CFR 60 (July 1, 1991) and 40 CFR 60, Appendix A, Method 24 (57 FR 30654, July 10, 1992). 1226 1227 228 e) 40 CFR 61 (July 1, 1991). 1230 f) 40 CFR 50 (July 1, 1991). 1231 g) 40 CFR 750 (July 1, 1991) and 40 CFR Part 51, Appendix M, Methods 204-204F (July 1, 1999). 1235 h) 40 CFR 52 (July 1, 1991) and 40 CFR Part 51, Appendix M, Methods 204-204F (July 1, 1999). 1236 i) 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). i) 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). i) 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). ii) 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). ii) 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). ii) iii 40 CFR 80 (July 1, 1991) and 40 CFR Part 80, Appendixes D, E, and F (July 1, 1993). iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	1215		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. c) American Petroleum Institute Bulletin 2517, "Evaporation Loss From Floating Roof Tanks", Second ed., February 1980. c) 40 CFR 60 (July 1, 1991) and 40 CFR 60, Appendix A, Method 24 (57 FR 30654, July 10, 1992). c) 40 CFR 61 (July 1, 1991). c) 40 CFR 50 (July 1, 1991). d) 40 CFR 50 (July 1, 1991). d) 40 CFR 50 (July 1, 1991) and 40 CFR Part-51, Appendix M, Methods 204- 204F (July 1, 1999). d) 40 CFR 52 (July 1, 1991). d) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 80 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 52 (July 1, 1991) and 40 CFR Part-80, Appendixes D, E, and F (July 1, 1993). d) 40 CFR 50 (Surface Coating Calculation", July 1986, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-86-016. d) "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-340/1-88-003. d) "A Guide for Graphic Arts Calculations", August 1988, United States Environmental Protection Agency, Washington, D.C., EPA-340/1-88-003. d) "Protocol for Determining the Daily Volatile Organ	1216		
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1245Protection Agency, Washington, D.C., EPA-450/3-84-019.124612471)"A Guide for Graphic Arts Calculations", August 1988, United States1248124812491250m)"Protocol for Determining the Daily Volatile Organic Compound Emission Rate of1251Automobile and Light-Duty Truck Topcoat Operations", December 1988, United125212531254n)"Control of Volatile Organic Emissions from Manufacturing of Synthesized		,	
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1247I)"A Guide for Graphic Arts Calculations", August 1988, United States1248Environmental Protection Agency, Washington, D.C., EPA-340/1-88-003.1249"Protocol for Determining the Daily Volatile Organic Compound Emission Rate of1251Automobile and Light-Duty Truck Topcoat Operations", December 1988, United1252States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-018.1253n)"Control of Volatile Organic Emissions from Manufacturing of Synthesized			
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12491250m)"Protocol for Determining the Daily Volatile Organic Compound Emission Rate of1251Automobile and Light-Duty Truck Topcoat Operations", December 1988, United1252States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-018.1253n)"Control of Volatile Organic Emissions from Manufacturing of Synthesized		,	
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1252States Environmental Protection Agency, Washington, D.C., EPA-450/3-88-018.1253i1254n)"Control of Volatile Organic Emissions from Manufacturing of Synthesized		,	
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		n)	"Control of Volatile Organic Emissions from Manufacturing of Synthesized
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1256 Protection Agency, Washington, D.C., EPA-450/2-78-029.			

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1259		Vapor Collection Systems", December 1978, Appendix B, United States
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1309	bb)	Memorandum "Revised Capture Efficiency Guidance for Control of Volatile
1310		Organic Compound Emissions,", February, 1995, John S. Seitz, Director, Office
1311		of Air Quality Planning and Standards, United States Environmental Protection
1312		Agency.
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1314	<u>cc)</u>	"Protocol for Determining the Daily Volatile Organic Compound Emission Rate
1315		of Automobile and Light-Duty Truck Primer-Surfacer and Topcoat Operations",
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1317		D.C., EPA-453/R-08-002.
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1319	<u>dd)</u>	40 CFR 63, Subpart PPPP, Appendix A (2008).
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1321	<u>ee)</u>	46 CFR Subchapter Q (2007).
1322		
1323	ff)	46 CFR Subchapter T (2008).
1324		
1325	(Sour	ce: Amended at 34 Ill. Reg, effective)
1326	× ×	
1327		SUBPART F: COATING OPERATIONS
1328		
1329	Section 218.	204 Emission Limitations
1330		
1331	Except as pro	ovided in Sections 218.205, 218.207, 218.208, 218.212, 218.215 and 218.216 of
1332		no owner or operator of a coating line shall apply at any time any coating in which
1333		ntent exceeds the following emission limitations for the specified coating. Except as
1334		ovided in Section 218.204(a), (j), (l), (n), and (q), compliance with the emission
1335		arked with an asterisk in this Section is required on and after March 15, 1996, and
1336		vith emission limitations not marked with an asterisk is required until March 15,
1337		llowing emission limitations are expressed in units of VOM per volume of coating
1338		and any compounds which are specifically exempted from the definition of VOM)
1339		each coating applicator, except where noted. Compounds which are specifically
1340		om the definition of VOM should be treated as water for the purpose of calculating
1341		er" part of the coating composition. Compliance with this Subpart must be
1342		I through the applicable coating analysis test methods and procedures specified in
A 1 AM		approacte county analysis tot monous and procedures specified in

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

a)

e.

Auto	mobile	or Light-Duty Truck Coating	kg/l	lb/gal
<u>1)</u>	<u>Prio</u>	<u>to May 1, 2011:</u>		
	<u>A</u> +)	Prime coat	0.14 0.14*	(1.2) (1.2)*
	<u>B</u> 2)	Primer surface coat	1.81 1.81*	(15.1) (15.1)*

<u>BOARD NOTE:</u>(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.)

<u>C</u> 3)	Topcoat	kg/l	lb/gal
		1.81	(15.1)
		1.81*	(15.1)*

<u>BOARD NOTE:</u>(Note: The topcoat limitation is in units of kg (lbs) of VOM per 1 (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(A) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 of this Part does not apply to the topcoat limitation.)

<u>D</u> 4)	Final repair coat	kg/l	lb/gal
		0.58	(4.8)
		0.58*	(4.8)*

1350 2) On and after May 1, 2011, subject automobile and light-duty truck coating 1351 lines shall comply with the following limitations. These limitations shall 1352 not apply to materials supplied in containers with a net volume of 0.47 1353 liters (16 oz) or less, or a net weight of 0.45 kg (1 lb) or less: 1354 1355 A) Electrodeposition primer (EDP) operations. For purposes of this 1356 subsection (a)(2)(A), "electrodeposition" means a water-borne dip 1357 coating process in which opposite electrical charges are applied to the substrate and the coating. The coating is attracted to the 1358 1359 substrate due to the electrochemical potential difference that is 1360 created. 1361 ka VOM/I 1h VOM/gol

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			kg VOM/l coating solids applied	<u>lb VOM/gal</u> coating solids applied		
	<u>i)</u>	<u>When solids turnover ratio</u> $(\underline{R}_{\underline{T}})$ is greater than or equal to $\underline{0.160}$	<u>0.084</u>	<u>(0.7)</u>		
	<u>ii)</u>	$\frac{\text{When } R_T \text{ is greater than or}}{\text{equal to } 0.040 \text{ and less than}}$ $\frac{0.160}{0.160}$	$\frac{0.084 \text{ x}}{350^{0.160-\text{R}}}$	$\frac{(0.084 \text{ x})}{350^{0.160 \text{ R}} \text{ x}}$ $\frac{350^{0.160 \text{ R}}}{100 \text{ x}}$		
<u>B)</u>	<u>Prin</u>	ner surfacer operations	kg VOM/1 coating solids deposited	<u>lb VOM/gal</u> coating solids deposited		
	<u>i)</u>	VOM content limitation	<u>1.44</u>	<u>(12.0)</u>		
ii) Compliance with the limitation set forth in subsection (a)(2)(B)(i) shall be based on the daily-weighted aver						

(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 218.105(b)(1)(B) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the primer surfacer limitation.

<u>C)</u> <u>Topcoat operations</u>

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

- i) <u>VOM content limitation</u> 1.44 (12.0)
- <u>Compliance with the limitation set forth in subsection</u>

 (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 218.105(b)(1)(B) and the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the topcoat limitation.
- D) Combined primer surfacer and topcoat operations

<u>i)</u>

-	kg VOM/1 coating solids deposited	<u>lb VOM/gal</u> <u>coating solids</u> <u>deposited</u>					
VOM content limitation	<u>1.44</u>	<u>(12.0)</u>					
Compliance with the limitation set forth in subsection							

<u>Compliance with the limitation set forth in subsection</u>

 (a)(2)(D)(i) shall be based on the daily-weighted average from the combined primer surfacer and topcoat operations.
 <u>Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b)(1)(B) and</u>

the recordkeeping and reporting requirements specified in Section 218.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 218.205 does not apply to the combined primer surfacer and topcoat limitation.

<u>E)</u> Final repair coat operations

		<u>kg/l</u> coatings	<u>lb/gal</u> coatings
<u>i)</u>	VOM content limitation	<u>0.58</u>	<u>(4.8)</u>

ii) Compliance with the final repair operations limitation set forth in subsection (a)(2)(E)(i) shall be on an occurrenceweighted 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.

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

where:

<u>VOM_{to}</u>	<u>t</u> =	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).
<u>i</u>	=	Subscript denoting a specific coating applied.
<u>n</u>	-	Total number of coatings applied in the final repair operation, other than clear coatings.
<u>VOM_{cc}</u>	=	The VOM content, as applied, of the clear coat used in the final repair operation.
<u>VOM</u> _i	-	The VOM content of each coating used in the final repair operation, as applied, other than clear coatings.

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1368 1369 1370 1371 1372	69subsection (a)(2)(F), compliance shall be demonstrated in accordance with the methods and procedures set forth in A A to Subpart PPPP of 40 CFR 63, incorporated by reference71A to Subpart PPPP of 40 CFR 63, incorporated by reference72Section 218.112 of this Part.						rated in orth in Appendix
1373				<u>i)</u>	Glass bonding primer	<u>kg/l</u> 0.90	<u>lb/gal</u> (7.51)
				<u>ii)</u>	Adhesive	<u>0.25</u>	<u>(2.09)</u>
				<u>iii)</u>	<u>Cavity wax</u>	<u>0.65</u>	<u>(5.42)</u>
				<u>iv)</u>	Trunk sealer	<u>0.65</u>	(5.42)
				<u>v)</u>	Deadener	<u>0.65</u>	(5.42)
				<u>vi)</u>	<u>Gasket/gasket sealing</u> material	<u>0.20</u>	<u>(1.67)</u>
				<u>vii)</u>	Underbody coating	<u>0.65</u>	(5.42)
				<u>viii)</u>	Trunk interior coating	<u>0.65</u>	(5.42)
				<u>ix)</u>	Bedliner	<u>0.20</u>	<u>(1.67)</u>
				<u>x)</u>	Weatherstrip adhesive	<u>0.75</u>	(6.26)
1374				<u>xi)</u>	Lubricating wax/compound	<u>0.70</u>	(5.84)
1374	b)) Can Coa				kg/l	lb/gal
		1)	Sheet	basecoa	t and overvarnish		
			A)	Sheet I	pasecoat	0.34 0.26*	(2.8) (2.2)*
			B)	Overva	arnish	0.34 0.34	(2.8) (2.8)*
		2)	Exteri	or based	coat and overvarnish	0.34	(2.8)
		3)	Interio	or body	spray coat	0.25*	(2.1)*

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	A)	Two piece	0.51 0.44*	(4.2) (3.7)*
	B)	Three piece	0.51 0.51*	(4.2) (4.2)*
4)	Exteri	or end coat	0.51 0.51*	(4.2) (4.2)*
5)	Side s	eam spray coat	0.66 0.66*	(5.5) (5.5)*
6)	End se	ealing compound coat	0.44 0.44*	(3.7) (3.7)*
Paper	Coating	5	kg/l 0.35 0.28*	lb/gal (2.9) (2.3)*

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

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

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c)

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h)	Large Appliance Coating								
	1)	Air d	ried	0.34 0.34*	(2.8) (2.8)*				
	2)	Bake	d	0.34 0.28*	(2.8) (2.3)*				
	<u>BOARD NOTE:</u> (Note: The limitation shall not apply to the use o drying lacquers for repair of scratches and nicks that occur during provided that the volume of coating does not exceed 0.95 1 (1 qua rolling eight-hour period.)								
i)	Mag	met Wi	re Coating	kg/1 0.20 0.20*	lb/gal (1.7) (1.7)*				
j)			y 1, 2011: Miscellaneous Metal Parts ts Coating						
	1)	Clear	coating	0.52 0.52*	(4.3) (4.3)*				
	2)	Extre	me performance coating						
		A)	Air dried	0.42 0.42*	(3.5) (3.5)*				
	B) Bak		Baked	0.42 0.40*	(3.5) (3.3)*				
	3)	Steel	pail and drum interior coating	0.52 0.52*	(4.3) (4.3)*				
	4)	All of	ther coatings						
		A)	Air <u>dried</u>	0.42 0.40*	(3.5) (3.3)*				
		B)	Baked	0.36 0.34*	(3.0) (2.8)*				

5) Marine engine coating

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		A)	Air <u>dried</u> Dried	0.42	(3.5)		
		B)	Baked	0.42*	(3.5)*		
			i) Primer/Topcoat	0.42 0.42*	(3.5) (3.5)*		
			ii) Corrosion resistant basecoat	0.42 0.28*	(3.5) (2.3)*		
		C)	Clear Coating	0.52 0.52*	(4.3) (4.3)*		
	6)	Meta	llic Coating				
		A)	Air Dried	0.42 0.42*	(3.5) (3.5)*		
1377		B)	Baked	0.36 0.36	(3.0) (3.0)*		
1377 1378 1379	7)	Defi	initions				
1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395		A)	 following terms are defined: i) "Corrosion resistant baseco subsection 218.204(j)(5)(B) borne epoxy coating applied process to a metal surface p purpose of enhancing corro ii) "Electrodeposition process" subsection 218.204(j)(5) of coating process in which op applied to the substrate and attracted to the substrate du 	"Corrosion resistant basecoat" means, for purp subsection $218.204(j)(5)(B)(ii)$ of this Section borne epoxy coating applied via an electrodep process to a metal surface prior to spray coatin purpose of enhancing corrosion resistance.			
1395 1396 1397 1398			 iii) "Marine engine coating" me 218.204(j)(5) of this Section protective, decorative or function 	n, any extreme p	erformance		

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1399 1400		engine that is used to propel watercraft.				
1400 1401 1402 1403 1404 1405 1406				For purposes of subsection 218.204 coating" means a coating which cor metal particles, as applied. <u>TE: On and after May 1, 2011, the lir</u> o this category of coating.	itains more th	an ¼ lb/gal of
1407		<u>011411 (</u>		<u>s inis category or couning.</u>		
1407	k)	Heav	y Off-H	Highway Vehicle Products Coating	kg/l	lb/gal
		1)	Extro	eme performance prime coat	0.42 0.42*	(3.5) (3.5)*
		2)	Extre	eme performance topcoat (air dried)	0.42 0.42*	(3.5) (3.5)*
		3)	Fina	l repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
1.400		4)		other coatings are subject to the emissi ellaneous metal parts and products coa		
1408	1)	Wood	1 Furnit	ture Coating		
		1)	Limi	tations before March 15, 1998:	kg/l	lb/gal
			A)	Clear topcoat	0.67	(5.6)

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B) Opaque stain (4.7) C) Pigmented coat (5.0) 0.60 D) Repair coat 0.67 (5.6) Sealer E) (5.6) 0.67 F) Semi-transparent stain (6.6) 0.79 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 1 (10 gal) of coating per day used for touchup 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.)

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

				kg VOM/ kg solids	lb VOM/ lb solids			
A))	Topcoa	t	0.8	(0.8)			
B)			and topcoats with the ng limits:					
		i)	Sealer other than acid-cured alkyd amino vinyl sealer	1.9	(1.9)			
		ii)	Topcoat other than acid- cured alkyd amino conversion varnish topcoat	1.8	(1.8)			
		iii)	Acid-cured alkyd amino vinyl sealer	2.3	(2.3)			
		iv)	Acid-cured alkyd amino conversion varnish topcoat	2.0	(2.0)			
C)		Meet the provisions of Section 218.215 of this Subpart for use of an averaging approach;						
D)		Achieve a reduction in emissions equivalent to the requirements of subsection $(l)(2)(A)$ or (B) of this Section, as calculated using Section 218.216 of this Subpart; or						
E)			ombination of the methods spe	ecified in subsec	ctions			

(l)(2)(A) through (D) of this Section.

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1424 1425	2)	Others	wood furniture conting limitations o	n and after Mar			
1425	3)	Other	wood furniture coating limitations o	n and after Mai	ich 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)		
1427		E)	Wash coat	0.73	(6.1)		
1428	4)	Other v	wood furniture coating requirements	s on and after M	1arch 15, 1998:		
1429 1430 1431 1432 1433 1434		A)	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.				
1435 1436 1437 1438		B)	Any source subject to the limitation this Section shall comply with the of this Subpart.				
1439 1440 1441 1442 1443 1444 1445 1446		C)	C) Any source subject to the limitations of subsection (l)(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 (l)(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:				
1440 1447 1448 1449 1450 1451			 Monitor the viscosity of the viscosity meter or by testing coating and retesting the co solvent is added; 	g the viscosity of	of the initial		
1452 1453 1454 1455			ii) Collect and record the reser and weight of VOM per we solvent each time coating of	ight of solids o	f coating and		

1456 1457 1458	iii) Maintain these records at the source for a period of t years.							
1456	m) Existing Diesel-Elec Lines in Cook Count				ric Locomotive Coating			
						kg/l	lb/gal	
		1)	Extre	me perfo	ormance prime coat	0.42 0.42*	(3.5) (3.5)*	
		2)	Extre	me perfo	ormance top-coat (air dried)	0.42 0.42*	(3.5) (3.5)*	
		3)	Final	repair co	oat (air dried)	0.42 0.42*	(3.5) (3.5)*	
		4)	High-temperature aluminum coating			0.72 0.72*	(6.0) (6.0)*	
1450			All ot	ther coat	ings	0.36 0.36*	(3.0) (3.0)*	
1459	n)		<u>Prior to May 1, 2011:</u> Plastic Parts Coating: Automotive/Transportation					
						kg/l	lb/gal	
		1)	Interi	ors				
			A)	Baked				
				i)	Color coat	0.49*	(4.1)*	
				ii)	Primer	0.46*	(3.8)*	
			B)	Air Dr	ied			
				i)	Color coat	0.38*	(3.2)*	
				ii)	Primer	0.42*	(3.5)*	
		2)	Exter	iors (fle	xible and non-flexible)			

A) Baked

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			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 Dr	ied		
			i)	Primer	0.66*	(5.5)*
			ii)	Clear coat	0.54*	(4.5)*
			iii)	Color coat (red & black)	0.67*	(5.6)*
			iv)	Color coat (others)	0.61*	(5.1)*
	3)	Speci	alty			
		A)		m metallizing basecoats, basecoats	0.66*	(5.5)*
		B)	coating	coatings, reflective argent gs, air bag cover coatings, ft coatings	0.71*	(5.9)*
		C)		reducers, vacuum metallizing ts, and texture topcoats	0.77*	(6.4)*
		D)	ink pa	l coatings, adhesion primers, d coatings, electrostatic prep gs, and resist coatings	0.82*	(6.8)*
		E)	Head 1	amp lens coatings	0.89*	(7.4)*
				and after May 1, 2011, the lim egory of coating.	itations in Sec	tion 218.204(q)
o)				_Plastic Parts Coating:		
	Busine	ess Ma	cnine		ko/l	1b/ga1

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kg/l lb/gal

1)	Prime	r	0.14*	(1.2)*				
2)	Color	coat (non-texture coat)	0.28*	(2.3)*				
3)	Color	coat (texture coat)	0.28*	(2.3)*				
4)	Electromagnetic interference/radio 0.48* (4.0)* frequency interference (EMI/RFI) shielding coatings							
5)	Specia	alty 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 218.204(q) shall apply to this category of coating.

- q) <u>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.</u>
 - 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, solidfilm 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 218.219, however, shall apply to these coatings unless specifically excluded in Section 218.219.

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<u>kg/l</u> <u>kg/l</u>

<u>A)</u>	Gener	al one component coating	<u>(lb/gal)</u> coatings	<u>(lb/gal)</u> <u>solids</u>
	<u>i)</u>	Air dried	<u>0.34</u> (2.8)	<u>0.54</u> (4.52)
	<u>ii)</u>	Baked	<u>0.28</u> (2.3)	<u>0.40</u> (3.35)
<u>B)</u>	Gener	al multi-component coating		
	<u>i)</u>	Air dried	<u>0.34</u> (2.8)	<u>0.54</u> (4.52)
	<u>ii)</u>	Baked	<u>0.28</u> (2.3)	<u>0.40</u> (3.35)
<u>C)</u>	<u>Camo</u>	uflage coating	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>D)</u>	<u>Electr</u>	ic-insulating varnish	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>E)</u>	<u>Etchi</u>	ng filler	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>F)</u>	Extre	me high-gloss coating		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.36</u> (3.0)	<u>0.61</u> (5.06)
<u>G)</u>	Extre	me performance coating		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.36</u> (3.0)	<u>0.61</u> (5.06)

<u>H)</u>	Heat-re	esistant coating	<u>0.66*</u>	<u>(5.5)*</u>
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.36</u> (3.0)	<u>0.61</u> (5.06)
<u>I)</u>	<u>High p</u> coating	erformance architectural	<u>0.74</u> (6.2)	<u>4.56</u> (38.0)
<u>1)</u>	<u>High te</u>	emperature coating	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>K)</u>	Metall	ic coating		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.36</u> (3.0)	<u>0.61</u> (5.06)
<u>L)</u>	<u>Militar</u>	y specification coating		
	<u>i)</u>	Air dried	<u>0.34</u> (2.8)	<u>0.54</u> (4.52)
	<u>ii)</u>	Baked	<u>0.28</u> (2.3)	<u>0.40</u> (3.35)
<u>M)</u>	—	Baked seal coating		
<u>M)</u> <u>N)</u>	Mold-s		(2.3) 0.42	(<u>3.35</u>) <u>0.80</u>
	Mold-s Pan ba Prefabr	seal coating	(2.3) 0.42 (3.5) 0.42	(3.35) 0.80 (6.67) 0.80
<u>N)</u>	Mold-s Pan ba Prefabr	seal coating cking coating ricated architectural	(2.3) 0.42 (3.5) 0.42	(3.35) 0.80 (6.67) 0.80

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			(2.3)	(3.35)
<u>P)</u>		pricated architectural g: one-component		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.28</u> (2.3)	<u>0.40</u> (3.35)
<u>Q)</u>	Pretre	atment coating	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>R)</u>	<u>Repai</u>	r coats and touch-up coatings		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	
	<u>ii)</u>	Baked	<u>0.36</u> (3.01)	
<u>S)</u>	<u>Silico</u>	ne release coating	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>T)</u>	<u>Solar-</u>	absorbent coating		
	<u>i)</u>	Air dried	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked	<u>0.36</u> (3.0)	<u>0.61</u> (5.06)
<u>U)</u>	<u>Vacuu</u>	m-metalizing coating	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>V)</u>	<u>Drum</u>	coating, new, exterior	<u>0.34</u> (2.8)	<u>0.54</u> (4.52)
<u>W)</u>	<u>Drum</u>	coating, new, interior	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
<u>X)</u>	<u>Drum</u>	coating, reconditioned,	<u>0.42</u>	<u>0.80</u>

	exteri	ior	<u>(3.5)</u>	<u>(6.67)</u>
<u>Y)</u>	<u>Drum</u> interi	<u>n coating, reconditioned,</u> or	<u>0.50</u> (4.2)	<u>1.17</u> (9.78)
<u>Z)</u>	<u>Steel</u>	pail and drum interior coating	<u>0.52</u> (4.3)	<u>1.24</u> (10.34)
<u>AA)</u>	<u>Marin</u>	ne engine coating		
	<u>i)</u>	<u>Air dried</u>	$\frac{0.42}{(3.5)}$	<u>0.80</u> (6.67)
	<u>ii)</u>	Baked: primer/topcoat	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
	<u>iii)</u>	Baked: corrosion resistant basecoat	<u>0.28</u> (2.3)	<u>0.40</u> (3.35)
	<u>iv)</u>	<u>Clear coating</u>	<u>0.52</u> (4.3)	<u>1.24</u> (10.34)
<u>BB)</u>	All of	ther coatings		
	<u>i)</u>	<u>Air dried</u>	<u>0.40</u> (3.3)	<u>0.73</u> (5.98)
	<u>ii)</u>	Baked	<u>0.34</u> (2.8)	<u>0.54</u> (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 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;

1477 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 218.219, however, shall apply to such coatings unless specifically excluded in Section 218.219.

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

1404		<u>])</u>	Va	cuum-metalizing coating	<u>0.80</u> (6.7)	<u>8.96</u> (74.7)
1484 1485 1486 1487	<u>3)</u>			ts and Products: re/Transportation		
1407					<u>kg/l</u> (lb/gal) coatings	<u>kg/l</u> (lb/gal) solids
		<u>A)</u>		<u>gh bake coatings – interior and</u> erior parts		
			<u>i)</u>	Flexible primer	<u>0.54</u> (4.5)	<u>1.39</u> (11.58)
			<u>ii)</u>	Non-flexible primer	<u>0.42</u> (3.5)	<u>0.80</u> (6.67)
			<u>iii)</u>	Basecoats	<u>0.52</u> (4.3)	<u>1.24</u> (10.34)
			<u>iv)</u>	<u>Clear coat</u>	<u>0.48</u> (4.0)	<u>1.05</u> (8.76)
			<u>v)</u>	Non-basecoat/clear coat	<u>0.52</u> (4.3)	<u>1.24</u> (10.34)
		<u>B)</u>		w bake/air dried coatings – erior parts		
			<u>i)</u>	<u>Primers</u>	<u>0.58</u> (4.8)	<u>1.66</u> (13.80)
			<u>ii)</u>	<u>Basecoat</u>	<u>0.60</u> (5.0)	<u>1.87</u> (15.59)
			<u>iii)</u>	<u>Clear coats</u>	<u>0.54</u> (4.5)	<u>1.39</u> (11.58)
			<u>iv)</u>	Non-basecoat/clear coat	<u>0.60</u> (5.0)	<u>1.87</u> (15.59)

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		<u>C)</u>		v bake/air dried coatings — rior parts		
			<u>i)</u>	<u>Color coat</u>	<u>0.38</u> (3.2)	<u>0.67</u> (5.66)
			<u>ii)</u>	Primer	$\frac{0.42}{(3.5)}$	<u>0.80</u> (6.67)
1488		<u>D)</u>	<u>Τοι</u>	chup and repair coatings	<u>0.62</u> (5.2)	<u>2.13</u> (17.72)
		<u>E)</u>	<u>Spe</u>	cialty		
			<u>i)</u>	Vacuum metallizing basecoats, texture basecoats	<u>0.66</u> (5.5)	<u>2.62</u> (21.8)
			<u>ii)</u>	Reflective argent coatings, air bag cover coatings, and soft coatings	<u>0.71</u> (5.9)	<u>3.64</u> (29.7)
			<u>iii)</u>	<u>Gloss reducers, vacuum</u> metallizing topcoats, and texture topcoats	<u>0.77</u> (6.4)	<u>6.06</u> (49.1)
			<u>iv)</u>	Stencil coats, adhesion primers, ink pad coatings, electrostatic prep coats, and resist coats	<u>0.82</u> (6.8)	<u>(11.67)</u> (89.4)
			<u>v)</u>	Head lamp lens coating	<u>0.89</u> (7.4)	
1400		<u>F)</u>	con	yellow, and black coatings: Sub ply with a limit determined by m it in subsections (q)(3)(A) through 5.	ultiplying the	appropriate
1489 1490 1491 1492 1493	<u>4)</u>	subsection subsecti subsection subsection subsection subsection subsection su	<u>ction</u> ers, te	s and Products: Business Machin (q)(4) shall not apply to vacuum r exture topcoats, adhesion primers, encil coats, and resist coats other	netallizing coa electrostatic p	atings, gloss preparation

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unless specifically excluded in Section 218.219.								
			<u>kg/l</u> (lb/gal) coatings	<u>kg/l</u> (lb/gal) solids				
<u>A)</u>	<u>Prir</u>	ners	<u>0.14</u> (1.2)	<u>0.17</u> (1.4)				
<u>B)</u>	<u>Top</u>	ocoat	<u>0.35</u> (2.9)	<u>0.57</u> (4.80)				
<u>C)</u>	<u>Col</u>	or coat (texture coat)	<u>0.28</u> (2.3)	<u>0.40</u> (4.80)				
<u>D)</u>	<u>Col</u>	or coat (non-texture coat)	<u>0.28</u> (2.3)	<u>0.40</u> (4.80)				
<u>E)</u>		ture coats other than color sure coats	<u>0.35</u> (2.9)	<u>0.57</u> (4.80)				
<u>F)</u>	<u>EM</u>	I/RFI shielding coatings	<u>0.48</u> (4.0)	<u>1.05</u> (8.76)				
<u>G</u>)	<u>Fog</u>	coat	<u>0.26</u> (2.2)	<u>0.38</u> (3.14)				
<u>H)</u>	<u>Tou</u>	chup and repair	<u>0.35</u> (2.9)	<u>0.57</u> (4.80)				
<u>I)</u>	Spe	cialty coatings						
	<u>i)</u>	<u>Soft coat</u>	<u>0.52</u> (4.3)	<u>1.24</u> (10.34)				
	<u>ii)</u>	Plating resist	<u>0.71</u> (5.9)	<u>3.64</u> (29.7)				
	<u>iii)</u>	Plating sensitizer	<u>0.85</u> (7.1)	<u>(23.4)</u> (201.0)				

limitations in Section 218.219, however, shall apply to such coatings

5) Pleasure Craft Surface Coatings

1477				<u>kg/l</u> (lb/gal) coatings	<u>kg/l</u> (lb/gal) solids
		<u>A)</u>	Extreme high gloss coating – topcoat	<u>0.49</u> (4.1)	<u>1.10</u> (9.2)
		<u>B)</u>	<u>High gloss coating – topcoat</u>	<u>0.42</u> (3.5)	<u>0.80</u> (6.7)
		<u>C)</u>	Pretreatment wash primer	<u>0.78</u> (6.5)	<u>6.67</u> (55.6)
		<u>D)</u>	Finish primer/surfacer	<u>0.42</u> (3.5)	<u>0.80</u> (6.7)
		<u>E)</u>	High build primer/surfacer	<u>0.34</u> (2.8)	<u>0.55</u> (4.6)
		<u>F)</u>	<u>Aluminum substrate antifoulant</u> coating	<u>0.56</u> (4.7)	<u>1.53</u> (12.8)
1500 1501 1502		<u>G</u>)	Other substrate antifoulant coating	<u>0.33</u> (2.8)	<u>0.53</u> (4.4)
		<u>H)</u>	<u>All other pleasure craft surface</u> coatings for metal or plastic	<u>0.42</u> (3.5)	<u>0.80</u> (6.7)
	<u>6)</u>	Moto	r Vehicle Materials		
				<u>kg/l</u> (lb/gal) coatings	
		<u>A)</u>	<u>Cavity wax</u>	<u>0.65</u> (5.42)	
		<u>B)</u>	Sealer	<u>0.65</u> (5.42)	
		<u>C)</u>	Deadener	<u>0.65</u> (5.42)	

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<u>D)</u>	Gasket/gasket sealing material	<u>0.20</u> (1.67)			
<u>E)</u>	Underbody coating	<u>0.65</u> (5.42)			
<u>F)</u>	Trunk interior coating	<u>0.65</u> (5.42)			
<u>G</u>)	Bedliner	<u>0.20</u> (1.67)			
<u>H)</u>	Lubricating wax/compound	<u>0.70</u> (5.84)			
(Source: Amended at 34 Ill. Reg, effective)					
Section 218.205 Daily-Weighted Average Limitations					

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

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1515	a)	No owner or operator of a coating line subject to only one of the limitations from			
1516		among Section 218.204(a)(1)(A), (a)(1)(D)(4), (a)(2)(A), (a)(2)(E), (a)(2)(F), (c),			
1517		(d), (e) (f), or (i) of this Subpart shall apply coatings on any such coating line,			
1518		during any day, whose daily-weighted average VOM content exceeds the			
1519		emission limitation to which the coatings are subject.			
1520					
1521	b)	Prior to May 1, 2011, no No owner or operator of a miscellaneous metal parts and			
1522		products coating line subject to the limitations of Section 218.204(j) of this			
1523		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			
1524					
1525		Section are met.			
1526					
1527		1) For each coating line which applies multiple coatings, all of which are			
1528		subject to the same numerical emission limitation within Section			

15271)For each coating line which applies multiple coatings, an of which are1528subject to the same numerical emission limitation within Section1529218.204(j) during the same day (e.g., all coatings used on the line are1530subject to 0.42 kg/l ([3.5 lbs/gal))], the daily-weighted average VOM

1531 content shall not exceed the coating VOM content limit corresponding to 1532 the category of coating used;- or 1533 1534 2) For each coating line which applies coatings subject to more than one 1535 numerical emission limitation in Section 218.204(j) of this Subpart, during 1536 the same day, the owner or operator shall have a site-specific proposal 1537 approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading 1538 1539 Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1540 1986), must be satisfied. 1541 1542 c) No owner or operator of a can coating line subject to the limitations of Section 1543 218.204(b) of this Subpart shall operate the subject coating line using a coating 1544 with a VOM content in excess of the limitations specified in Section 218.204(b) 1545 of this Subpart unless all of the following requirements are met: 1546 An alternative daily emission limitation shall be determined for the can 1547 1) 1548 coating operation, i.e., for all of the can coating lines at the source, 1549 according to subsection (c)(2) of this Section. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be 1550 1551 calculated by use of the following equation. 1552 $E_d = \sum_{i=1}^n V_i C_i$ 1553 1554 1555 where: 1556 E_d = Actual VOM emissions for the day in units of kg/day (lbs/day); i = Subscript denoting a specific coating applied; = Total number of coatings applied in the can coating n 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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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:

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

where:

2)

- 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 1 (gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- L_i = The VOM emission limitation for each surface coating applied as specified in Section 218.204(b) of this Subpart in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).
- d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 218.204(k) of this Subpart shall apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.
 - 1) For each coating line which applies multiple coatings, all of which are

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1573			subject to the same numerical emission limitation within Section
1574			218.204(k) of this Subpart, during the same day (e.g., all coatings used on
1575			the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average
1576			VOM content shall not exceed the coating VOM content limit
1577			corresponding to the category of coating used;, or
1578			
1579		2)	For each coating line which applies coatings subject to more than one
1580			numerical emission limitation in Section 218.204(k) of this Subpart,
1581			during the same day, the owner or operator shall have a site specific
1582			proposal approved by the Agency and approved by the USEPA as a SIP
1583			revision. To receive approval, the requirements of USEPA's Emissions
1584			Trading Policy Statement (and related policy) 51 Fed. Reg. 43814
1585			(December 4, 1986), must be satisfied.
1586			
1587	e)	No ow	vner or operator of a wood furniture coating line subject to the limitations of
1588	•)		n 218.204(1)(1) or (1)(3) of this Subpart shall apply coatings to wood
1589			are on the subject coating line unless the requirements of subsection (e)(1)
1590			section (e)(2) of this Section, in addition to the requirements specified in the
1591			Section 218.204(1)(1) of this Subpart, are met.
1592			, Socion 210.20 (()(1) of this Buopart, are not.
1593		1)	For each coating line which applies multiple coatings, all of which are
1594		•)	subject to the same numerical emission limitation within Section
1595			218.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all
1596			coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal)), the daily-
1597			weighted average VOM content shall not exceed the coating VOM content
1598			limit corresponding to the category of coating used;, or
1599			mint corresponding to the category of coating used, of
1600		2)	For each coating line which applies coatings subject to more than one
1601		2)	numerical emission limitation in Section 218.204(l)(1) or (l)(3) of this
1602			Subpart, during the same day, the owner or operator shall have a site
1602			specific proposal approved by the Agency and approved by the USEPA as
1604			a SIP revision. To receive approval, the requirements of USEPA's
1605			Emissions Trading Policy Statement (and related policy) 51 Fed. Reg.
1606			43814 (December 4, 1986), must be satisfied.
1607			43014 (December 4, 1980), must be satisfied.
1608	f)	Noor	mer or operator of an existing diesel-electric locomotive coating line in
1608	IJ		
1609			County, subject to the limitations of Section 218.204(m) of this Subpart
			pply coatings to diesel-electric locomotives on the subject coating line the requirements of subsection $(\mathfrak{D}(1))$ or $(\mathfrak{D}(2))$ of this Section are met
1611		uniess	the requirements of subsection $(f)(1)$ or $(f)(2)$ of this Section are met.
1612		1)	For each coating line which applies multiple costings all of the
1613		1)	For each coating line which applies multiple coatings, all of which are
1614			subject to the same numerical emission limitation within Section
1615			218.204(m) of this Subpart, during the same day (e.g., all coatings used on

1616			the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average
1617			VOM content shall not exceed the coating VOM content limit
1618			corresponding to the category of coating used; $$ or
1619			corresponding to the category of coating ased, of
1620		2)	For each coating line which applies coatings subject to more than one
1621		2)	numerical emission limitation in Section 218.204(m) of this Subpart,
1622			during the same day, the owner or operator shall have a site specific
1623			proposal approved by the Agency and approved by the USEPA as a SIP
1624			revision. To receive approval, the requirements of USEPA's Emissions
1625			Trading Policy Statement (and related policy) must be satisfied.
1626			Trading I oney Statement (and related poney) must be satisfied.
1627	നി	Prior	to May 1, 2011, no No owner or operator of a plastic parts coating line,
1628	g)		t to the limitations of Section 218.204(n) or (o) of this Subpart shall apply
1629			igs to business machine or automotive/transportation plastic parts on the
1630			t coating line unless the requirements of subsection $(g)(1)$ or $(g)(2)$ of this
1631			on are met:
1632		Beette	in are met.
1633		1)	For each coating line which applies multiple coatings, all of which are
1634		1)	subject to the same numerical emission limitation within Section
1635			218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings
1636			used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted
1637			average VOM content shall not exceed the coating VOM content limit
1638			corresponding to the category of coating used; or
1639			corresponding to the category of coating used, of
1640		2)	For each coating line which applies coatings subject to more than one
1641		2)	numerical emission limitation in Section 218.204(n) or (o) of this Subpart,
1642			during the same day, the owner or operator shall have a site specific
1643			proposal approved by the Agency and approved by the USEPA as a SIP
1644			revision. To receive approval, the requirements of USEPA's Emissions
1645			Trading Policy Statement (and related policy) must be satisfied.
1646			riading roney Statement (and related peney) must be satisfied.
1647	h)	No ov	vner or operator of a metal furniture coating line, subject to the limitations
1648)	of Sec	tion 218.204(g) of this Subpart shall apply coatings on the subject coating
1649			nless the requirements of subsection $(h)(1)$ or $(h)(2)$ of this Section are met:
1650		iiiio ui	$\frac{1}{1}$
1651		1)	For each coating line which applies multiple coatings, all of which are
1652		-,	subject to the same numerical emission limitation within Section
1653			218.204(g) of this Subpart, during the same day (e.g., all coatings used on
1654			the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average
1655			VOM content shall not exceed the coating VOM content limit
1656			corresponding to the category of coating used; or
1657			
1658		2)	For each coating line which applies coatings subject to more than one

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1659 1660 1661 1662 1663 1664		numerical emission limitation in Section 218.204(g) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
1665 1666 1667	i)	No owner or operator of a large appliance coating line, subject to the limitations of Section 218.204(h) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection $(i)(1)$ or $(i)(2)$ of this Section are met:
1668 1669 1670 1671 1672 1673 1674 1675		 For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
1676 1677 1678 1679 1680 1681 1682		2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
1682 1683 1684 1685 1686 1687 1688 1689	j)	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 218.204(q) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (j)(1) or (j)(2) of this Section are met:
1690 1691 1692 1693 1694 1695 1696		 For each coating line that applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(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
1697 1698 1699 1700		2) For each coating line that applies coatings subject to more than one numerical emission limitation in Section 218.204(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 USEPA as a SIP

1701			revision. To receive approval, the requirements of USEPA's Emissions
1702			Trading Policy Statement (and related policy) must be satisfied.
1703			
1704	(Sourc	e: Am	ended at 34 Ill. Reg, effective)
1705			
1706	Section 218.2	07 Alt	ernative Emission Limitations
1707			
1708	a)	Any o	wner or operator of a coating line subject to Section 218.204 of this
1709		Subpa	rt, except coating lines subject to Section 218.204(q)(6), may comply with
1710		this Se	ection, rather than with Section 218.204 of this Subpart, if a capture system
1711		and co	ntrol device are operated at all times the coating line is in operation and the
1712		owner	or operator demonstrates compliance with subsection (c), (d), (e), (f), (g),
1713		(h), (i)	, (j), or (k), or (l) of this Section (depending upon the source category)
1714		throug	h the applicable coating analysis and capture system and control device
1715		efficie	ncy test methods and procedures specified in Section 218.105 of this Part
1716		and the	e recordkeeping and reporting requirements specified in Section 218.211(e)
1717		of this	Subpart; and the control device is equipped with the applicable monitoring
1718		equipr	nent specified in Section 218.105(d) of this Part and the monitoring
1719		equipr	nent is installed, calibrated, operated and maintained according to vendor
1720		specifi	cations at all times the control device is in use. A capture system and
1721			l device, which does not demonstrate compliance with subsection (c), (d),
1722			, (g), (h), (i), (j), or (k), or (1) of this Section may be used as an alternative
1723		to com	pliance with Section 218.204 of this Subpart only if the alternative is
1724		approv	red by the Agency and approved by the USEPA as a SIP revision.
1725			
1726	b)	Altern	ative Add-On Control Methodologies
1727			
1728		1)	The coating line is equipped with a capture system and control device that
1729			provides 81 percent reduction in the overall emissions of VOM from the
1730			coating line and the control device has a 90 percent efficiency, or
1731			
1732		2)	The system used to control VOM from the coating line is demonstrated to
1733			have an overall efficiency sufficient to limit VOM emissions to no more
1734			than what is allowed under Section 218.204 of this Subpart. Use of any
1735			control system other than an afterburner, carbon adsorption, condensation,
1736			or absorption scrubber system can be allowed only if approved by the
1737			Agency and approved by the USEPA as a SIP revision. The use of transfer
1738			efficiency credits can be allowed only if approved by the Agency and
1739			approved by the USEPA as a SIP revision. Baseline transfer efficiencies
1740			and transfer efficiency test methods must be approved by the Agency and
1741			the USEPA. Such overall efficiency is to be determined as follows:
1742			
1743			A) Obtain the emission limitation from the appropriate subsection in

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1744		Section 218.204 of this Subpart;
1745		
1746		B) <u>Unless complying with an emission limitation in Section 218.204</u>
1747		that is already expressed in terms of weight of VOM per volume of
1748		solids, calculateCalculate "S" according to the equation in Section
1749		218.206 of this Subpart;
1750		
1751		C) Calculate the overall efficiency required according to Section
1752		218.105(e) of this Part. For the purposes of calculating this value,
1753		according to the equation in Section 218.105(e)(2) of this Part,
1754		VOM_l is equal to the value of "S" as determined above in
1755		subsection (b)(2)(B) of this Section. If the coating line is
1756		complying with an emission limitation in Section 218.204 of this
1757		Subpart that is already expressed in terms of weight of VOM per
1758		volume of solids, VOM_1 is equal to that emission limitation.
1759		
1760	c)	No owner or operator of a coating line subject to only one of the emission
1761		limitations from among Section 218.204(a)(1)(<u>A</u>), (a)(1)(<u>D</u>)(4) , (a)(2)(A),
1762		(a)(2)(E), (a)(2)(F), (c), (d), (e), (f), or (i) of this Subpart and equipped with a
1763		capture system and control device shall operate the subject coating line unless the
1764		requirements in subsection $(b)(1)$ or $(b)(2)$ of this Section are met. No owner or
1765		operator of a coating line subject to Section 218.204(a)(1)(B)(2), or
1766		$\frac{218.204(a)(1)(C)(3)}{(a)(2)(B)}$, (a)(2)(C), or (a)(2)(D) and equipped with a
1767		capture system and control device shall operate the coating line unless the owner
1768		or operator demonstrates compliance with such limitation in accordance with the
1769		topcoat protocol referenced in Section 218.105(b)(1)(A) or (b)(1)(B), as
1770		applicable.
1771		
1772	d)	No owner or operator of a miscellaneous metal parts and products coating line
1773		thatwhich applies one or more coatings during the same day, all of which are
1774		subject to the same numerical emission limitation within Section 218.204(j) of
1775		this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 ([3.5
1776		lbs/gal]]), and thatwhich is equipped with a capture system and control device
1777		shall operate the subject coating line unless the requirements in subsection (b)(1)
1778		or (b)(2) of this Section are met.
1779	100 B	
1780	e)	No owner or operator of a heavy off-highway vehicle products coating line
1781		thatwhich applies one or more coatings during the same day, all of which are
1782		subject to the same numerical emission limitation within Section 218.204(k) of
1783		this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/1 ([3.5
1784		lbs/gal)]), and <u>thatwhich</u> is equipped with a capture system and control device
1785		shall operate the subject coating line unless the requirements in subsection (b)(1)
1786		or (b)(2) of this Section are met.

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1787		
1788	f)	No owner or operator of an existing diesel-electric locomotive coating line in
1789	,	Cook County that which applies one or more coatings during the same day, all of
1790		which are subject to the same numerical emission limitation within Section
1791		218.204(m) of this Subpart (e.g., all coatings used on the line are subject to 0.42
1792		kg/1 ([3.5 lbs/gal)]), and that which is equipped with a capture system and control
1793		device shall operate the subject coating line unless the requirements in subsection
1794		(b)(1) or (b)(2) of this Section are met.
1795		
1796	g)	No owner or operator of a wood furniture coating line that which applies one or
1797	0)	more coatings during the same day, all of which are subject to the same numerical
1798		emission limitation within Section 218.204(l) of this Subpart (e.g., all coatings
1799		used on the line are subject to 0.67 kg/l ([5.6 lbs/gal)]), and that which is equipped
1800		with a capture system and control device shall operate the subject coating line
1801		unless the requirements in subsection (b)(1) or (b)(2) of this Section are met. If
1802		compliance is achieved by meeting the requirements in subsection (b)(2) of this
1803		Section, then the provisions in the note to Section 218.204(1) of this Subpart must
1804		also be met.
1805		
1806	h)	No owner or operator of a can coating line that which is equipped with a capture
1807		system and control device shall operate the subject coating line unless the
1808		requirements in subsection $(h)(1)$ or $(h)(2)$ of this Section are met.
1809		
1810		1) An alternative daily emission limitation shall be determined for the can
1811		coating operation, i.e., for all of the can coating lines at the source,
1812		according to Section 218.205(c)(2) of this Subpart. Actual daily emissions
1813		shall never exceed the alternative daily emission limitation and shall be
1814		calculated by use of the following equation:
1815		
1816		$E_d = \sum_{i=1}^n V_i C_i (1 - F_i)$
1817		
1818		where:
1819		
		E _d = Actual VOM emissions for the day in units of kg/day (lbs/day);

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- i = Subscript denoting the specific coating applied;
- n = Total number of surface coatings as applied in the can coating operation;

- V_i = Volume of each coating as applied for the day in units of l/day (gal/day) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
- F_i = Fraction, by weight, of VOM emissions from the surface coating reduced or prevented from being emitted to the ambient air. This is the overall efficiency of the capture system and control device.
- 2) The coating line is equipped with a capture system and control device that provide 75 percent reduction in the overall emissions of VOM from the coating line and the control device has a 90 percent efficiency.
- No owner or operator of a plastic parts coating line <u>thatwhich</u> applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart (e.g., all coatings used on the line are subject to 0.42 kg/l ([3.5 lbs/gal)]), and <u>thatwhich</u> is equipped with a capture system and control device shall operate the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

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- 1833j)No owner or operator of a metal furniture coating line thatwhich applies one or1834more coatings during the same day, all of which are subject to the same numerical1835emission limitation within Section 218.204(g) of this Subpart (e.g., all coatings1836used on the line are subject to 0.34 kg/l ([2.8 lbs/gal)]), and thatwhich is equipped1837with a capture system and control device shall operate the subject coating line1838unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.
 - k) No owner or operator of a large appliance coating line <u>thatwhich</u> applies one or more coatings during the same day, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart (e.g., all coatings used on the line are subject to 0.34 kg/l ([2.8 lbs/gal)]), and <u>thatwhich</u> 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.
- 1847I)On and after May 1, 2011, no owner or operator of a miscellaneous metal parts1848and products coating line, plastic parts and products coating line, or pleasure craft

1849 1850			ce coating line that is equipped with a capture system and control device operate the subject coating line unless:
1851 1852 1853		<u>1)</u>	The capture system and control device provide at least 90 percent reduction in the overall emissions of VOM from the coating line; or
1854 1855 1856		<u>2)</u>	The owner or operator of the coating line complies with all requirements set forth in subsection (b)(2) of this Section.
1857 1858 1859	(Sour	ce: An	nended at 34 Ill. Reg, effective)
1860 1861	Section 218.	208 Ex	emptions from Emission Limitations
1862	a)	Even	ptions for all coating categories except wood furniture coating. The
1862	a)		tions of this Subpart shall not apply to coating lines within a source, that
1865			wise would be subject to the same subsection of Section 218.204 (because
1865			belong to the same coating category, e.g., can coating), provided that
1866		comb	ined actual emissions of VOM from all lines at the source subject to that
1867			ction never exceed 6.8 kg/day ([15 lbs/day)] before the application of
1868			re systems and control devices. (For example, can coating lines within a
1869			e would not be subject to the limitations of Section 218.204(b) of this
1870			art if the combined actual emissions of VOM from the can coating lines
1871			exceed 6.8 kg/day ([15 lbs/day)] before the application of capture systems
1872			ontrol devices.) <u>Prior to May 1, 2011, volatile</u> Volatile organic material
1873			ions from heavy off-highway vehicle products coating lines must be
1874			ined with VOM emissions from miscellaneous metal parts and products
1875			ing lines to determine applicability. On and after May 1, 2011, VOM
1876			ions from heavy off-highway vehicle products coating lines shall be
1877			ined with VOM emissions from miscellaneous metal parts and products
1878			ig lines and plastic parts and products coating lines to determine
1879			cability. Any owner or operator of a coating source shall comply with the
1880			cable coating analysis test methods and procedures specified in Section
1881		218.1	05(a) of this Part and the recordkeeping and reporting requirements
1882		specif	fied in Section 218.211(a) of this Subpart if total VOM emissions from the
1883		subje	ct coating lines are always less than or equal to 6.8 kg/day ([15 lbs/day)]
1884		befor	e the application of capture systems and control devices and, therefore, are
1885			bject to the limitations of Section 218.204 of this Subpart. Once a category
1886			ating lines at a source is subject to the limitations in Section 218.204 of this
1887		-	art the coating lines are always subject to the limitations in Section 218.204
1888		of this	s Subpart.
1889			
1890	b)	Appli	cability for wood furniture coating
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1892 1893 1894 1895 1896 1897	1)	coating by Subj (exclud	nitations of this Subpart shall apply to a source's wood furniture lines if the source contains process emission units, not regulated parts B, E, F (excluding Section 218.204(l) of this Subpart), H ling Section 218.405 of this Part), Q, R, S, T (excluding Section 6 of this Part), V, X, Y, or BB of this Part, which as a group both:
1898 1899 1900 1901			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
1902 1903 1904 1905 1906			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.
1907 1908 1909 1910 1911 1912 1913	2)	coating emissio tons) or less tha or capa	hitations of this Subpart shall apply to a source's wood furniture lines, on and after March 15, 1996, if the source contains process on units, which as a group, have a potential to emit 22.7 Mg (25 r more of VOM per calendar year and have not limited emissions to an 22.7 Mg (25 tons) of VOM per calendar year through production city limitations contained in a federally enforceable operating or SIP revision, and <u>thatwhich</u> :
1914 1915 1916 1917 1918		A)	Are not regulated by Subparts B, E, F (excluding Section 218.204(1) of this Subpart), H, Q, R, S, T (excluding Section 218.486 of this Part), V, X, Y, Z or BB of this Part; and
1919 1920 1921 1922 1923 1924 1925			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.
1925 1926 1927 1928 1929 1930	3)	Section to apply	rce ceases to fulfill the criteria of subsection $(b)(1)$ or $(b)(2)$ of this a, the limitations of Section 218.204(1) of this Subpart shall continue y to any wood furniture coating line which was ever subject to the ons of Section 218.204(1) of this Subpart.
1930 1931 1932 1933 1934	4)	be cons of that s	purposes of subsection (b) of this Section, an emission unit shall sidered to be regulated by a Subpart if it is subject to the limitations Subpart. An emission unit is not considered regulated by a Subpart not subject to the limits of that Subpart, e.g., the emission unit is

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1935 1936 1937		covered by an exemption in the Subpart or the applicability criteria of Subpart are not met.	the
1937 1938 1939 1940 1941		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 cales	
1942 1943 1944		days from the date of the request that document that the coating line is exempt from the limitations of this Subpart.	
1945 1946	c)	On and after March 15, 1996, the limitations of this Subpart shall not apply to couch-up and repair coatings used by a coating source described by subsection	
1947 1948 1949		218.204(b), (d), (f), (g), <u>and (i), (j), (n) and (o)</u> of this Subpart; provided that t source-wide volume of such coatings used does not exceed 0.95 1 (1 quart) per wight hour period on succeed 200 1/m (155 cm/m)) for even willing tracks	er
1949 1950 1951		eight-hour period or exceed 209 1/yr ([55 gal/yr)] for any rolling twelve mont period. Recordkeeping and reporting for touch-up and repair coatings shall b consistent with subsection (ed) of this Section.	
1952 1953	<u>d)</u>	Prior to May 1, 2011, the limitations of this Subpart shall not apply to touch-u	<u>1p</u>
1954 1955		and repair coatings used by a coating source described by subsections 218.204 (n), and (o) of this Subpart, provided that the source-wide volume of the coating of the coating of the coating source wide volume o	ings
1956 1957 1958		used does not exceed 0.95 l (1 quart) per eight-hour period or exceed 209 l/yr gal/yr) for any rolling 12 month period. Recordkeeping and reporting for tour up and repair coatings shall be consistent with subsection (e) of this Section.	
1959 1960	<u>e</u> d)	On and after March 15, 1996, the owner or operator of a coating line or a grou	up of
1961 1962 1963	_ /	coating lines using touch-up and repair coatings that are exempted from the imitations of Section 218.204(b), (d), (f), (g), (i), (j), (n) and (o) of this Subpaceause of the provisions of Section 218.208(c) or (d) of this Subpart shall:	•
1964 1965 1966		Collect and record the name, identification number, and volume used each touch-up and repair coating, as applied on each coating line, per	of
1967 1968 1969		eight-hour period and per month;Perform calculations on a daily basis, and maintain at the source record	da
1970 1971 1972		of such calculations, of the combined volume of touch-up and repair coatings used source-wide for each eight-hour period;	us
1972 1973 1974 1975 1976 1977		B) 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;	

1978 1979 1980 1981		4)	Prepare and maintain at the source an annual summary of the information required to be compiled pursuant to subsections $(\underline{ed})(1)$ and $(\underline{ed})(2)$ of this Section on or before January 31 of the following year;
1982 1983 1984 1985		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;
1986 1987 1988 1989 1990 1991		6)	Notify the Agency in writing if the use of touch-up and repair coatings at the source ever exceeds a volume of 0.951 (1 quart) per eight-hour period or exceeds 209 l/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
1992 1993 1994 1995		7)	"Touch-up and repair coatings" means, for purposes of 35 Ill. Adm. Code 218.208, any coating used to cover minor scratches and nicks that occur during manufacturing and assembly processes.
1995 1996 1997	(Sour	ce: Ame	ended at 34 Ill. Reg, effective)
1998 1999	Section 218.2	210 Coi	npliance Schedule
2000 2001 2002 2003 2004 2005	Subpart) shal and Section 2	1 comply 218.211	tor of a coating line (of a type included within Section 218.204 of this y with the requirements of Section 218.204, 218.205, 218.207 or 218.208 or Sections 218.212 and 218.213 of this Subpart in accordance with the ce schedule as specified in subsection (a), (b), (c), (d), (e), $\Theta r(f)$, or (g)
2006 2007 2008 2009 2010 2011	a)	Section (b) of the Section	mer or operator of a coating line <u>that which</u> is exempt from the limitations of n 218.204 of this Subpart because of the criteria in Section 218.208(a) or this Subpart shall operate said coating line on or after a date consistent with n 218.106 of this Part, unless the owner or operator has complied with, and ues to comply with, Section 218.211(b) of this Subpart.
2011 2012 2013 2014 2015 2016	b)	this Su Section	mer or operator of a coating line complying by means of Section 218.204 of abpart shall operate said coating line on or after a date consistent with a 218.106 of this Part, unless the owner or operator has complied with, and uses to comply with, Sections 218.204 and 218.211(c) of this Subpart.
2017 2018 2019 2020	c)	this Su Section	ner or operator of a coating line complying by means of Section 218.205 of abpart shall operate said coating line on or after a date consistent with n 218.106 of this Part, unless the owner or operator has complied with, and ues to comply with, Sections 218.205 and 218.211(d) of this Subpart.

2021		
2022	d)	No owner or operator of a coating line complying by means of Section 218.207 of
2023	,	this Subpart shall operate said coating line on or after a date consistent with
2024		Section 218.106 of this Part, unless the owner or operator has complied with, and
2025		continues to comply with, Sections 218.207 and 218.211(e) of this Subpart.
2026		
2020	e)	No owner or operator of a coating line subject to one or more of the emission
2028	0)	limitations contained in Section 218.204 of this Subpart on or after March 15,
2029		1996, choosing to comply by means of Section 218.204, 218.205 or 218.207 of
2029		this Subpart, shall operate said coating line on or after March 15, 1996, unless the
2030		owner or operator complies with and continues to comply with, respectively, the
2031		
2032		applicable requirements in Section 218.204, or the alternative control options in
2033		Section 218.205 or 218.207 and the requirements of Section 218.211.
2034	Ð	No example an experience of a continue line subject to supervise of the subject
	f)	No owner or operator of a coating line subject to one or more of the emission
2036		limitations contained in Section 218.204 of this Subpart on or after March 15,
2037		1996, choosing to comply by means of Section 218.212 of this Subpart, shall
2038		operate said coating line on or after March 15, 1996, unless the owner or operator
2039		complies with and continues to comply with the requirements of Sections 218.212
2040		and 218.213 of this Subpart.
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2042	g)	No owner or operator of a coating line subject to the emission limitations in
2043		Section 218.204(a)(2) or (q) of this Subpart, or subject to the limitations in
2044		Section 218.219 of this Subpart, shall operate the coating line on or after a date
2045		consistent with Section 218.106(e) of this Part, unless the owner or operator has
2046		complied with, and continues to comply with, Section 218.204(a)(2) or (q), if
2047		applicable, or the alternative control options in Section 218.205 or 218.207, and
2048		all applicable requirements in Sections 218.211 and 218.219 of this Subpart.
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2050	(Soi	arce: Amended at 34 Ill. Reg, effective)
2051	~	
2052	Section 218	3.211 Recordkeeping and Reporting
2053		
2054	a)	The VOM content of each coating and the efficiency of each capture system and
2055		control device shall be determined by the applicable test methods and procedures
2056		specified in Section 218.105 of this Part to establish the records required under
2057		this Section.
2058		
2059	b)	Any owner or operator of a coating line that which is exempted from the
2060		limitations of Section 218.204 of this Subpart because of Section 218.208(a) or
2061		(b) of this Subpart shall comply with the following:
2062		
2063		1) For sources exempt under Section 218.208(a) of this Subpart, by a date

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

- A) A declaration that the coating line or group of coating lines is exempt from the limitations of Section 218.204 of this Subpart because of Section 218.208(a) of this Subpart; and
- B) Calculations <u>thatwhich</u> demonstrate that the combined VOM emissions from the coating lines or group of coating lines never exceed 6.8 kg (15 lbs) per day before the application of capture systems and control devices. The following equation shall be used to calculate total VOM emissions:

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

where:

- T_e = Total VOM emissions from coating lines each day before the application of capture systems and control devices in units of kg/day (lbs/day);
- m = Number of coating lines at the source that otherwise would be subject to the same subsection of Section 218.104 of this Part (because they belong to the same category, e.g., can coating);
- j = Subscript denoting an individual coating line;
- n = Number of different coatings as applied each day on each coating line;
- i = Subscript denoting an individual coating;
- A_i = Weight of VOM per volume of each coating (minus water and any compounds <u>thatwhich</u> 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 <u>that</u> which are specifically exempted from

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the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day shall be described in the certification to the Agency.

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

- A) A declaration that the source is exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart; and
- B) Calculations <u>thatwhich</u> demonstrate that the source meets the criteria for exemption because of Section 218.208(b) of this Subpart.
- 3) For sources exempt under Section 218.208(a) of this Subpart, on and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in this subsection (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 <u>thatwhich</u> are specifically exempted from the definition of VOM) as applied each day on each coating line.
- 4) For sources exempt under Section 218.208(b) of this Subpart, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) shall collect and record all of the following information for each coating line and maintain the information at the source for a period of three years:
 - A) The name and identification number of each coating as applied on

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each coating line; and

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

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

6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(1) of this Subpart because of Section 218.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.

c) Any owner or operator of a coating line subject to the limitations of Section 218.204 of this Subpart other than Section 218.204(a)(1)(B)(2), or (a)(1)(C)(3), (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart and complying by means of Section 218.204 of this Subpart shall comply with the following:

 By a date consistent with Section 218.106 of this Part, or upon initial startup of a new coating line, or upon changing the method of compliance from an existing subject coating line from Section 218.205, Section 218.207, Section 218.215, or Section 218.216 of this Subpart to Section 218.204 of this Subpart; the owner or operator of a subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.204 of this Subpart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. <u>TheSuch</u> 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

2164			definition of VOM) as applied each day on each coating line; and
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2166		C)	On and after March 15, 1998, for coating lines subject to the
2167			limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the
2168			weight of VOM per weight of solids in each coating as applied
2169			each day on each coating line;-
2170			
2171		<u>D)</u>	For coating lines subject to the limitations of Section
2172			218.204(a)(2)(A) of this Subpart, the weight of VOM per volume
2173			of solids in each coating as applied each day on each coating line,
2174			and the solids turnover ratio of the EDP operation, with supporting
2175			calculations;
2176			
2177		<u>E)</u>	For coating lines subject to the limitations of Section
2178			218.204(a)(2)(E), the weight of VOM per volume of each coating
2179			as applied each day on each coating line, calculated on an
2180			occurrence weighted average basis;
2181			
2182		<u>F)</u>	For coating lines subject to the limitations of Section 218.204(q) of
2183			this Subpart, the weight of VOM per volume of each coating, or
2184			the weight of VOM per volume of solids in each coating, as
2185			applicable, as applied each day on each coating line;
2186			
2187	2)	On an	d after a date consistent with Section 218.106 of this Part, or on and
2188		after t	he initial start-up date, the owner or operator of a subject coating
2189		line sł	nall collect and record all of the following information each day,
2190		unless	otherwise specified, for each coating line and maintain the
2191		inform	nation at the source for a period of three years:
2192			
2193		A)	The name and identification number of each coating as applied on
2194			each coating line;
2195			
2196		B)	The weight of VOM per volume of each coating (minus water and
2197			any compounds which are specifically exempted from the
2198			definition of VOM) as applied each day on each coating line;
2199			
2200		C)	On and after March 15, 1998, for coating lines subject to the
2201			limitations of Section 218.204(1)(2)(A) or (B) of this Subpart, the
2202			weight of VOM per weight of solids in each coating as applied
2203			each day on each coating line and certified product data sheets for
2204			each coating; and
2205			
2206		D)	On and after March 15, 1998, for wood furniture coating spray

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2207 2208 2209 2210 2211			booths subject to the limitations of Section 218.204(l)(4)(A) of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified product data sheets for each coating:
2212 2213 2214 2215 2216 2217 2218		<u>E)</u>	For coating lines subject to the limitations of Section 218.204(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;
2218 2219 2220 2221 2222 2223		<u>F)</u>	For coating lines subject to the limitations of Section 218.204(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;
2224 2225 2226 2227 2228 2229		<u>G)</u>	For coating lines subject to the limitations of Section 218.204(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;
2230 2231 2232 2233 2234	3)	or ope	d after a date consistent with Section 218.106 of this Part, the owner rator of a subject coating line shall notify the Agency in the ing instances:
2235 2236 2237 2238		A)	Any record showing violation of Section 218.204 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the <u>occurrenceoccurrance</u> of the violation.
2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249		B)	At least 30 calendar days before changing the method of compliance from Section 218.204 of this Subpart to Section 218.205 or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d)(1) or (e)(1) of this Section-below, respectively. Upon changing the method of compliance from Section 218.204 of this Subpart to Section 218.205 of this Subpart or Section 218.207 of this Subpart, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.

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d) Any owner or operator of a coating line subject to the limitations of Section 2251 218.204 of this Subpart and complying by means of Section 218.205 of this Subpart shall comply with the following: 2252 2253 2254 By a date consistent with Section 218.106 of this Part, or upon initial start-1) 2255 up of a new coating line, or upon changing the method of compliance for 2256 an existing subject coating line from Section 218.204 or Section 218.207 2257 of this Subpart to Section 218.205 of this Subpart; the owner or operator 2258 of the subject coating line shall certify to the Agency that the coating line will be in compliance with Section 218.205 of this Subpart on and after a 2259 2260 date consistent with Section 218.106 of this Part, or on and after the initial 2261 start-up date. TheSuch certification shall include: 2262 2263 A) The name and identification number of each coating line which 2264 will comply by means of Section 218.205 of this Subpart. 2265 2266 B) The name and identification number of each coating as applied on 2267 each coating line. 2268 2269 C) The weight of VOM per volume and the volume of each coating 2270 (minus water and any compounds which are specifically exempted 2271 from the definition of VOM) as applied each day on each coating 2272 line. 2273 2274 D) On and after March 15, 1998, for coating lines subject to the 2275 limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied 2276 2277 each day on each coating line. 2278 2279 E) For coating lines subject to the limitations of Section 2280 218.204(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. 2281 2282 2283 F) For coating lines subject to the limitations of Section 218.204(g) of 2284 this Subpart, the weight of VOM per volume of each coating, or the weight of VOM per volume of solids in each coating, as 2285 2286 applicable, as applied each day on each coating line. 2287 2288 GE) The instrument or method by which the owner or operator will 2289 accurately measure or calculate the volume of each coating as 2290 applied each day on each coating line. 2291 2292 HF) The method by which the owner or operator will create and

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2293 2294 2295			maintain records each day as required in subsection (d)(2) of this Section.
2296 2297 2298		<u>I</u> G)	An example of the format in which the records required in subsection (d)(2) of this Section will be kept.
2299 2300 2301 2302 2303	2)	after t line sl	Ind after a date consistent with Section 218.106 of this Part, or on and the initial start-up date, the owner or operator of a subject coating hall collect and record all of the following information each day for coating line and maintain the information at the source for a period of years:
2304 2305 2306 2307		A)	The name and identification number of each coating as applied on each coating line.
2308 2309 2310 2311 2312		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.
2312 2313 2314 2315 2316 2317		C)	On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
2317 2318 2319 2320 2321		<u>D)</u>	For coating lines subject to the limitations of Section 218.204(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.
2321 2322 2323 2324 2325 2326		<u>E)</u>	For coating lines subject to the limitations of Section $218.204(q)$ 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.
2327 2328 2329		<u>F</u> Ð)	The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 218.104 of this Part.
2330 2331 2332 2333	3)	or ope	Id after a date consistent with Section 218.106 of this Part, the owner erator of a subject coating line shall notify the Agency in the ving instances:
2334 2335		A)	Any record showing violation of Section 218.205 of this Subpart

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2336				shall be reported by sending a copy of such record to the Agency
2337				within 30 days following the occurrence of the violation.
2338			-	
2339			B)	At least 30 calendar days before changing the method of
2340				compliance with this Subpart from Section 218.205 of this Subpart
2341				to Section 218.204 or Section 218.207 of this Subpart, the owner
2342				or operator shall comply with all requirements of subsection $(c)(1)$
2343				or $(e)(1)$ of this Section, respectively. Upon changing the method
2344				of compliance with this subpart from Section 218.205 to Section
2345				218.204 or Section 218.207 of this Subpart, the owner or operator
2346				shall comply with all requirements of subsection (c) or (e) of this
2347	<u>k</u>			Section, respectively.
2348				
2349	e)	Any o	owner of	r operator of a coating line subject to the limitations of Section
2350		218.2	07 of th	is Subpart and complying by means of Section 218.207(c), (d), (e),
2351				, or (1) of this Subpart shall comply with the following:
2352				
2353		1)	Byac	late consistent with Section 218.106 of this Part, or upon initial start-
2354		8		a new coating line, or upon changing the method of compliance for
2355				sting coating line from Section 218.204 or Section 218.205 of this
2356				art to Section 218.207 of this Subpart, the owner or operator of the
2357				ct coating line shall perform all tests and submit to the Agency the
2358			-	s of all tests and calculations necessary to demonstrate that the
2359				ct coating line will be in compliance with Section 218.207 of this
2360			-	art on and after a date consistent with Section 218.106 of this Part, or
2361			-	d after the initial start-up date.
2362				
2363		2)	On an	d after a date consistent with Section 218.106 of this Part, or on and
2364		,		he initial start-up date, the owner or operator of a subject coating
2365				nall collect and record all of the following information each day for
2366				coating line and maintain the information at the source for a period of
2367			three	-
2368				
2369			A)	The weight of VOM per volume of coating solids as applied each
2370)	day on each coating line, if complying pursuant to Section
2371				218.207(b)(2) of this Subpart.
2372				
2372			B)	Control device monitoring data.
2374			D)	Control device montoring data.
2375			C)	A log of operating time for the capture system, control device,
2376			\sim	monitoring equipment and the associated coating line.
2370				momorand equipment and the associated coating inte.
2378			D)	A maintenance log for the capture system, control device and
2370			<i>D</i>)	Thankenance log for the capture system, control device and

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2379 2380 2381 2382				monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.
2383 2384 2385 2386		3)	or ope	d after a date consistent with Section 218.106 of this Part, the owner rator of a subject coating line shall notify the Agency in the ring instances:
2387 2388 2389 2390			A)	Any record showing violation of Section 218.207 of this Subpart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
2391 2392 2393 2394			B)	At least 30 calendar days before changing the method of compliance with this Subpart from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all requirements of subsection (c)(1)
2395 2396 2397 2398				or (d)(1) of this Section, respectively. Upon changing the method of compliance with this <u>Subpartsubpart</u> from Section 218.207 of this Subpart to Section 218.204 or Section 218.205 of this Subpart, the owner or operator shall comply with all requirements of
2398 2399 2400 2401	f)	A my o	wher or	subsection (c) or (d) of this Section, respectively.
2401 2402 2403 2404 2405	1)	combi Sectio	<u>ned prin</u> n 218.2	operator of a primer surfacer operation or topcoat operation, or <u>mer surfacer and topcoat operation</u> , subject to the limitations of 04(a)(1)(B)(2), or $(a)(1)(C)(3)$, $(a)(2)(B)$, $(a)(2)(C)$, or $(a)(2)(D)$ of hall comply with the following:
2406 2407 2408 2409 2410 2411		1)	up of a operat compl consis	ate consistent with Section 218.106 of this Part, or upon initial start- a new coating operation, the owner or operator of a subject coating ion shall certify to the Agency that the operation will be in iance with Section 218.204 of this Subpart on and after a date tent with Section 218.106 of this Part, or on and after the initial p date. <u>TheSuch</u> certification shall include:
2412 2413 2414 2415 2416 2417			A)	The name and identification number of each coating operation which will comply by means of Section 218.204(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.
2418 2419 2420 2421	÷		B)	The name and identification number of each coating as applied on each coating line in the coating operation.

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2422 2423 2424 2425		C)	any com	ght of VOM per volume of each coating (minus water and apounds which are specifically exempted from the on of VOM) as applied each day on each coating line.
2426 2427 2428		D)	The tran coating	nsfer efficiency and control efficiency measured for each line.
2429 2430 2431		E)	-	orts, including raw data and calculations documenting the performed to measure transfer efficiency and control cy.
2432 2433 2434 2435		F)	accurate	rument or method by which the owner or operator will by measure or calculate the volume of each coating as each day on each coating line.
2436 2437 2438 2439		G)		thod by which the owner or operator will create and n records each day as required in subsection $(f)(2)$ of this selow.
2440 2441 2442 2443		H)		nple format for presenting the records required in on (f)(2) of this Sectionbelow.
2444 2445 2446 2447 2448 2449	2)	after th operate day for	ne initial : ion shall	late consistent with Section 218.106 of this Part, or on and start-up date, the owner or operator of a subject coating collect and record all of the following information each eration and maintain the information at the source for a years:
2450 2451 2452 2453 2454 2455 2456		A)	VOM er of coatin submitte	rmation necessary to calculate the daily-weighted average missions from the coating operations in kg (lbs) per 1 (gal) ng solids deposited in accordance with the proposal ed, and approved pursuant to Section 218.204(a)(1)(B)(2), $(C)(3)$, (a)(2)(B), (a)(2)(C), or (a)(2)(D) of this Subpart g:
2450 2457 2458 2459				The name and identification number of each coating as applied on each coating operation.
2460 2461 2462 2463 2464			v t	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.

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2465 2466 2467 2468 2469 2470 2471 2472			B)	If a control <u>device or devices aredevice(s)</u> is used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment and the associated coating operation; and a maintenance log for the capture system, control device and monitoring equipment, detailing all routine and non-routine maintenance performed including dates and duration of any outages.
2472		3)	On an	d after a date consistent with Section 218.106 of this Part or on and
2474		2)		he initial start-up date, the owner or operator of a subject coating
2475				ion shall determine and record the daily VOM emissions in kg (lbs)
2476				(gal) of coating solids deposited in accordance with the proposal
2477				tted and approved pursuant to Section $218.204(a)(1)(B)$, $(a)(1)(C)$,
2478				(B), (a)(2)(C), or (a)(2)(D)(a)(2) or (a)(3) of this Subpart within 10
2479				rom the end of the month and maintain this information at the source
2480				period of three years.
2481			•	
2482		4)	On an	d after a date consistent with Section 218.106 of this Part, the owner
2483		-		rator of a subject coating operation shall notify the Agency in the
2484				ving instances:
2485				
2486			A)	Any record showing a violation of Section 218.204(a)(1)(B),
2487				(a)(1)(C), (a)(2)(B), (a)(2)(C), or (a)(2)(D)(a)(2) or (a)(3) of this
2488				Subpart shall be reported by sending a copy of such record to the
2489				Agency within 15 days from the end of the month in which the
2490				violation occurred.
2491				
2492			B)	The owner or operator shall notify the Agency of any change to the
2493				operation at least 30 days before the change is effected. The
2494				Agency shall determine whether or not compliance testing is
2495				required. If the Agency determines that compliance testing is
2496				required, then the owner or operator shall submit a testing proposal
2497				to the Agency within 30 days and test within 30 days of the
2498				approval of the proposal by the Agency and USEPA.
2499	\sim	On an	daftar	data consistent with Section 218 106 of this Dart on an and after
2500 2501	<u>g)</u>			a date consistent with Section 218.106 of this Part, or on and after t-up date, whichever is later, the owner or operator of a coating line
2502				requirements of Section 218.219 of this Subpart shall comply with
2502			llowing	
2504		<u>uic 101</u>	uo wing.	<u>-</u>
2505		<u>1)</u>	By M:	ay 1, 2011, or upon initial start-up, whichever is later, submit a
2506		<u>~</u> ‡	-	cation to the Agency that includes:
2507				

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2508 2509 2510 2511		<u>A)</u>	A description of the practices and procedures that the source will follow to ensure compliance with the applicable requirements in Section 218.219 of this Subpart;
2512 2513 2514		<u>B)</u>	For sources subject to Section 218.219(a)(6), the work practices plan specified in that Section;
2514 2515 2516 2517		<u>C)</u>	For sources subject to Section 218.219(b)(6), the application methods used to apply coatings on the subject coating line;
2518 2519 2520	<u>2)</u>	provid the vid	the Agency of any violation of Section 218.219 of this Subpart by ling a description of the violation and copies of records documenting plation to the Agency within 30 days following the occurrence of the
2521 2522		violati	on; and
2523 2524 2525	<u>3)</u>	<u>minim</u>	ain at the source all records required by this subsection (g) for a num of three years from the date the document was created and make records available to the Agency upon request.
2526 2527	(Source: Am	nended a	t 34 Ill. Reg, effective)
2528 2529	Section 218.212 Cr	oss-Lin	e Averaging to Establish Compliance for Coating Lines
2530 2531			
2530	a) On ar	nd after l	March 15, 1996, any owner or operator of a coating line subject to
2530 2531	a) On ar the lin	nd after l mitation	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u>
2530 2531 2532	a) On ar the lin <u>subje</u>	nd after l mitations ct to the	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart</u> , and with
2530 2531 2532 2533	a) On ar the lin <u>subjec</u> coatir	nd after I mitations <u>ct to the</u> ng lines i	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u>
2530 2531 2532 2533 2534	a) On ar the lin <u>subje</u> coatir may,	nd after I mitations <u>ct to the</u> ng lines i for pre-e	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of
2530 2531 2532 2533 2534 2535	a) On ar the lin <u>subje</u> coatir may, this S	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart</u> , and with in operation prior to January 1, 1991 ("pre-existing coating lines"),
2530 2531 2532 2533 2534 2535 2536 2537 2538	a) On ar the lin <u>subjec</u> coatir may, this S forth been	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aft	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539	a) On ar the lin <u>subjec</u> coatin may, this S forth been t source	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart,</u> and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540	a) On ar the lin <u>subjec</u> coatir may, this S forth been sourc with a	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usi	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart</u> , and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541	a) On ar the lin <u>subjec</u> coatin may, this S forth been sourc with a ("repl	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Sectio made aff e. An op a line usion	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart,</u> and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542	a) On ar the lin <u>subjec</u> coatin may, this S forth been sourc with a ("repl comp	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion acement liance w	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate ith the requirements of this Subpart shall operate pursuant to
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543	a) On ar the lin <u>subjec</u> coatin may, this S forth been sourc with a ("repl comp	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion acement liance w	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart,</u> and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544	a) On ar the lin <u>subjection</u> coatin may, this S forth been: sourc with a ("repl comp federa	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion liance w ally enfo	March 15, 1996, any owner or operator of a coating line subject to s set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate ith the requirements of this Subpart shall operate pursuant to rceable permit conditions approved by the Agency and USEPA.
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2544	 a) On ar the lin <u>subject</u> coatin may, this S forth been source with a ("repl comp federation.") b) An over the line section of the line section of the line section. 	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion liance w ally enfo	March 15, 1996, any owner or operator of a coating line subject to a set forth in Section 218.204 of this Subpart, except coating lines limitations in Section 218.204(a)(2) or (q) of this Subpart, and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line to receable permit conditions approved by the Agency and USEPA.
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546	 a) On ar the lin subject coating may, this S forth been source with a ("repl comp federation.") b) An ovelimitation of the second second	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line us acement liance w ally enfo	March 15, 1996, any owner or operator of a coating line subject to a set forth in Section 218.204 of this Subpart, except coating lines limitations in Section 218.204(a)(2) or (q) of this Subpart, and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the operational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line the requirements of this Subpart shall operate pursuant to rceable permit conditions approved by the Agency and USEPA.
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547	 a) On ar the lin subjection coating in the subjection coating in the subjection of the su	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion liance w ally enfo wher or op tion in S nstrate c	March 15, 1996, any owner or operator of a coating line subject to a set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate ith the requirements of this Subpart shall operate pursuant to rceable permit conditions approved by the Agency and USEPA.
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2544 2545 2546 2547 2548	 a) On ar the lin subject coating may, this S forth been source with a ("repl comp federate) b) An ow limitademo in subject comp 	nd after I mitations <u>ct to the</u> ng lines i for pre-e ection, r in Section made aff e. An op a line usion liance we ally enfoon wher or operation to in Strate consection	March 15, 1996, any owner or operator of a coating line subject to a set forth in Section 218.204 of this Subpart, except coating lines <u>limitations in Section 218.204(a)(2) or (q) of this Subpart,</u> and with in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has eer January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate ith the requirements of this Subpart shall operate pursuant to rceable permit conditions approved by the Agency and USEPA.
2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547	 a) On ar the lin <u>subject</u> coatin may, this S forth been source with a ("repl comp federate) b) An ovelimitate demosin subfrom 	nd after I mitations <u>ct to the</u> ng lines i for pre-c ection, r in Section made aff e. An op a line usion a l	March 15, 1996, any owner or operator of a coating line subject to a set forth in Section 218.204 of this Subpart, <u>except coating lines</u> <u>limitations in Section 218.204(a)(2) or (q) of this Subpart, and with</u> in operation prior to January 1, 1991 ("pre-existing coating lines"), existing coating lines only, elect to comply with the requirements of ather than complying with the applicable emission limitations set on 218.204, if an operational change of the type described below has the January 1, 1991, to one or more pre-existing coating lines at the perational change occurs when a pre-existing coating line is replaced ing lower VOM coating for the same purpose as the replaced line time"). A source electing to rely on this Section to demonstrate ith the requirements of this Subpart shall operate pursuant to rceable permit conditions approved by the Agency and USEPA.

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2551		coating	g lines. For any pre-existing coating line to be aggregated for the purposes
2552		of Sec	tion 218.212, 218.213, or 218.214 of this Subpart ("participating coating
2553		lines")), the source must establish that:
2554			
2555		1)	All coatings applied on the participating coating line shall, at all times,
2556			have a VOM content less than or equal to the applicable VOM content
2557			limitation for such coating listed in Appendix H of this Part; and
2558			
2559		2)	On the date the source elects to rely on this Section to demonstrate
2560		,	compliance with this Subpart, all coatings applied on the participating
2561			coating line are not already in compliance with the VOM content
2562			limitation for such coating effective on or after March 15, 1996; or the
2563			participating coating line is a replacement line, as defined in subsection (a)
2564			of this Section with an operational change occurring on or after January 1,
2565			1991.
2566			
2567	c)	Notwi	thstanding subsection (a) of this Section, any owner or operator of a coating
2568	•)		bject to the limitations set forth in Section 218.204 of this Subpart and
2569			ig to rely on this Section to demonstrate compliance with this Subpart, may
2570			clude as a participating coating line, until December 31, 1999, only, any
2570			ement line that satisfies all of the following conditions:
2572		Toplace	sment fine that satisfies an of the following conditions.
2572		1)	The replacement line is operated as a powder coating line;
2574		1)	The replacement line is operated as a powder coating line,
2575		2)	The replacement line was added after July 1, 1988; and
2576		2)	The replacement line was added after July 1, 1966, and
2570		2)	The example of energy also includes as a nerticipating costing line and an
2578		3)	The owner or operator also includes as a participating coating line one or
2578			more coating lines that satisfy the criteria of a replacement line, as
			described in subsection (a) of this Section.
2580	4)	Tadam	nonetrote compliance with this Section a compact light with this 4
2581	d)		nonstrate compliance with this Section, a source shall establish the
2582		follow	ing:
2583		1)	A 1/ / 1/11 / 1/11 / 1/11 / 1/11 / 1/11 / 1/11
2584		1)	An alternative daily emission limitation shall be determined for all
2585			participating coating lines at the source according to subsection $(d)(2)$ of
2586			this Section. All participating coating lines shall be factored in each day
2587			to demonstrate compliance. Provided compliance is established pursuant
2588			to the requirements in this subsection, nothing in this Section requires
2589			daily operation of each participating line. Actual daily emissions from all
2590			participating coating lines (E_d) shall never exceed the alternative daily
2591			emission limitation (A_d) and shall be calculated by use of the following
2592			equation:
2593			

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	$n \rightarrow n$
2594	$E_d = \sum_{i=1}^n V_i C_i$
2595 2596 2597	where:
2371	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
2500	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).
2598 2599	2) The alternative daily emission limitation (A_d) shall be determined for all
2600 2601	participating coating lines at the source on a daily basis as follows:
2602	$A_d = A_l + A_p$
2603	
2604 2605	where:
2605	A_1 and A_p are defined in subsections (d)(2)(A) and (d)(2)(B) of this
2607	Section.
2608 2609	A) The portion of the alternative daily emissions limitation for coating
2610	operations at a source using non-powder coating (A_1) shall be
2611	determined for all such participating non-powder coating lines on a
2612 2613	daily basis as follows:
2614	$A_{l} = \sum_{i=1}^{n} V_{i}L_{i} \frac{D_{i} - C_{i}}{D_{i} - L_{i}}$
2615	
2616	where:
2617	

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- A₁ = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- i = Subscript denoting a specific coating applied;
- n = Total number of coatings applied in the participating coating lines;
- C_i = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM);
- D_i = The density of VOM in each coating applied. For the purposes of calculating A₁, 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 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).
- B) The portion of the alternative daily emission limitation for coating operations at a source using powdered coating (A_p) shall be determined for all such participating powder coating lines at the source on a daily basis as follows:

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

where:

- A_p = The VOM emissions allowed for the day in units of kg/day (lbs/day);
- h = Subscript denoting a specific powder coating line;
- j = Subscript denoting a specific powder coating applied;

2622 2623 2624

2618 2619

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- m = Total number of participating powder coating lines;
- n = Total number of powder coatings applied in the participating coating lines;
- D_j = The assumed density of VOM in liquid coating, 0.882 kg VOM/l VOM (7.36 lbs VOM/gal VOM);
- V_j = Volume of each powder coating consumed for the day in units of l (gal) of coating; and
- L_j = The VOM emission limitation for each coating applied, as specified in Section 218.204 of this Subpart, in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM); and
- K = A constant for each individual coating line representing the ratio of the volume of coating solids consumed on the liquid coating system which has been replaced to the volume of powder coating consumed on the replacement line to accomplish the same coating job. This value shall be determined by the source based on tests conducted and records maintained pursuant to the requirements of Section 218.213 of this Subpart demonstrating the amount of coating solids consumed as both liquid and powder. Test methods and recordkeeping requirements shall be approved by the Agency and USEPA and shall be contained in the source's operating permit as federally enforceable permit conditions, subject to the following restrictions:
 - <u>•i</u>) K cannot exceed 0.9 for non-recycled powder coating systems; or
 - <u>•ii)</u> K cannot exceed 2.0 for recycled powder coating systems.

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2629	(Sour	rce: Amended at 34 Ill. Reg, effective)
2630		
2631	Section 218.	219 Work Practice Standards for Automobile and Light-Duty Truck Assembly
2632	Coatings an	d Miscellaneous Metal and Plastic Parts Coatings
2633		
2634	<u>a)</u>	Every owner or operator of a coating line subject to the requirements of Section
2635		218.204(a)(2) of this Subpart shall:

2636			
2637		<u>1)</u>	Store all VOM-containing coatings, thinners, coating-related waste
2638			materials, cleaning materials, and used shop towels in closed containers;
2639			
2640		<u>2)</u>	Ensure that mixing and storage containers used for VOM-containing
2641			coatings, thinners, and coating-related waste materials are kept closed at
2642			all times except when depositing or removing those materials;
2643			
2644		<u>3)</u>	Minimize spills of VOM-containing coatings, thinners, and coating-related
2645		<u>~</u> 7	waste materials;
2646			
2647		<u>4)</u>	Convey VOM-containing coatings, thinners, and coating-related waste
2648		<u></u>	materials from one location to another in closed containers or pipes;
2649			indicitais from one foodion to unother in closed containers of pipes,
2650		<u>5)</u>	Minimize VOM emissions from cleaning of storage, mixing, and
2650		<u> </u>	conveying equipment;
2652			
2653		<u>6)</u>	Develop and implement a work practice plan to minimize VOM emissions
2654		₫	from cleaning and from purging of equipment associated with coating
2655			lines subject to the limitations in Section 218.204(a)(2). The plan shall
2656			specify practices and procedures that the source will follow to ensure that
2657			<u>VOM emissions from the operations listed in this subsection (a)(6) are</u>
2658			minimized. If the owner or operator of the subject coating line has already
2659			implemented a work practice plan for the coating line pursuant to Subpart
2660			IIII of 40 CFR 63, incorporated by reference in Section 218.112 of this
2661			Part, the owner or operator may revise the plan as necessary to comply
2662			with this Section.
2663			whit this Section.
2664			A) Vehicle body wiping;
2665			<u>Aj</u> <u>venicie body wipnig</u> ,
2666			B) Coating line purging;
2667			<u>D</u> <u>Coaung nine purging</u> ,
2668			C) Flushing of coating systems;
2669			<u>C)</u> <u>Flushing of coating systems;</u>
2670			D) Cleaning of annow booth anotes wells, and equipments and
			D) Cleaning of spray booth grates, walls, and equipment; and
2671			E) Cleaning of enternal enter headh anno
2672			<u>F)</u> <u>Cleaning of external spray booth areas.</u>
2673	1)	D	
2674	<u>b)</u>	_	as provided in subsection (c) of this Section, every owner or operator of a
2675		coating	g line described in Section 218.204(q) of this Subpart shall:
2676		• `	
2677		<u>1)</u>	Store all VOM-containing coatings, thinners, coating-related waste
2678			materials, cleaning materials, and used shop towels in closed containers;

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2679					
2680	<u>2)</u>	Fnsur	e that mixing and storage containers used for VOM-containing		
2680	<u>4</u>]	<u>coatings, thinners, coating-related waste materials, and cleaning materials</u>			
2682		are kept closed at all times except when depositing or removing these			
2683					
2684		materials;			
2685	<u>3)</u>	Minin	nize spills of VOM-containing coatings, thinners, coating-related		
2685	51		materials, and cleaning materials;		
2687		waste	materials, and cleaning materials,		
2688	<u>4)</u>	Conve	av VOM containing coatings thinners coating related waste		
2689	=1	<u>Convey VOM-containing coatings, thinners, coating-related waste</u>			
2690		materials, and cleaning materials from one location to another in closed containers or pipes;			
2690		contai	mers or pipes,		
2692	<u>5)</u>	Minin	nize VOC emissions from cleaning of application, storage, mixing,		
2693	<u>5</u>]		onveying equipment by ensuring that equipment cleaning is		
2694			med without atomizing the cleaning solvent and all spent solvent is		
2695			red in closed containers; and		
2696		<u>captu</u>	ted in closed containers, and		
2697	<u>6)</u>	Apply	vall coatings using one or more of the following application		
2698	<u>0</u>]	metho			
2699		methe	<u>203.</u>		
2700		A)	Electrostatic spray;		
2700		<u>11</u>	Licenostane spray,		
2701		<u>B)</u>	High volume low pressure (HVLP) spray;		
2702		D	mgn volume low pressure (m v Li) spray,		
2704		<u>C)</u>	Flow coating. For the purposes of this subsection (b)(6)(C), flow		
2705		\overline{c}	<u>coating means a non-atomized technique of applying coating to a</u>		
2706			substrate with a fluid nozzle with no air supplied to the nozzle;		
2707			Substrate with a mail house with no an supplied to the house,		
2708		<u>D)</u>	Roll coating;		
2709		21	<u>ron country</u>		
2710		E)	Dip coating, including electrodeposition. For purposes of this		
2711		<u> </u>	subsection (b)(6)(E), electrodeposition means a water-borne dip		
2712			<u>coating process in which opposite electrical charges are applied to</u>		
2713			the substrate and the coating. The coating is attracted to the		
2714			substrate due to the electrochemical potential difference that is		
2715			created;		
2716					
2717		<u>F)</u>	Airless spray;		
2718		<u> </u>	<u></u>		
2719		<u>G</u>)	Air-assisted airless spray; or		
2720					

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2721 2722 2723 2724		H) Another coating application method capable of achieving a transfer efficiency equal to or better than that achieved by HVLP spraying, if the method is approved in writing by the Agency.
2724 2725 2726 2727	<u>c)</u>	Notwithstanding subsection (b) of this Section, the application method limitations in subsection (b)(6) shall not apply to the following:
2728 2729		1) Coating lines complying with Section 218.207(1)(1);
2730		2) For metal parts and products coating operations: touch-up coatings, repair
2731		<u>coatings</u> , textured finishes, stencil coatings, safety-indicating coatings,
2732		solid-film lubricants, electric-insulating and thermal-conducting coatings,
2733		magnetic data storage disk coatings, and plastic extruded onto metal parts
2734		to form a coating;
2735		
2736		3) For pleasure craft surface coating operations: extreme high gloss coatings;
2737		
2738		4) For plastic parts and products coating operations: airbrush operations
2739		using 18.9 liters (5 gallons) or less of coating per year.
2740	(5	Added at 24 III Day (Continue)
2741 2742	(Sour	rce: Added at 34 Ill. Reg, effective)
2742	SI	UBPART II: FIBERGLASS BOAT MANUFACTURING MATERIALS
2743	<u>50</u>	JBFART II. FIDEROLASS BOAT MANUFACTURING MATERIALS
2745	Section 218.8	890 Applicability
2746		
2747	<u>a)</u>	Except as provided in subsection (b) of this Section, on and after May 1, 2011, the
2748		requirements of this Subpart shall apply to the owners or operators of sources that
2749		manufacture hulls or decks of boats from fiberglass, or that build molds to make
2750		hulls or decks of boats from fiberglass, and that emit 6.8 kg/day (15 lbs/day) or
2751		more of VOM, calculated in accordance with Section 218.894(a)(1)(B), from
2752		open molding resin and gel coat operations, resin and gel coat mixing operations,
2753		and resin and gel coat application equipment cleaning operations, in the absence
2754		of air pollution control equipment. If a source is subject to this Subpart based
2755		upon such criteria, the limitations of this Subpart shall apply to the manufacture of
2756		all fiberglass boat parts at the source.
2757	1.)	
2758 2759	<u>b)</u>	Notwithstanding subsection (a) of this Section, the requirements of this Subpart
2759		shall not apply to the following:
2761		1) Surface coatings applied to fiberglass boats;
2762		Tr Durings apprior to noorgrass boars,

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2763 2764 2765		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;
2766 2767 2768		3) Closed molding operations.
2769 2770 2771	<u>c)</u>	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.
2772 2773 2774 2775	<u>d)</u>	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 218.894(a) of this Subpart.
2776 2777	(Sourc	e: Added at 34 Ill. Reg, effective)
2778	Section 219.8	91 Emission Limitations and Control Requirements
2779 2780 2781 2782 2783 2784 2785 2786 2786 2787 2788 2789 2790	<u>a)</u>	$\frac{\text{Except as provided in subsection (f) of this Section, no owner or operator of a source subject to the requirements of this Subpart shall use a subject resin or gel coat at the source unless the resin and gel coat comply with subsection (b)(1) or (b)(2), (c), or (d) of this Section, as well as with subsections (e), (g), and (h) of this Section. For sources complying pursuant to subsection (b) or (c) of this Section, if the non-monomer VOM content of a resin or gel coat exceeds 5 percent, by weight, the excess non-monomer VOM shall be added to the monomer VOM content of the resin or gel coat in accordance with the equation below: \frac{\text{Weighted Average}}{\text{Content}} = \frac{\sum_{i=1}^{n} M_i VOM_i}{\sum_{i=1}^{n} M_i} + \frac{\sum_{i=1}^{n} M_i VOM_{nm} - \sum_{i=1}^{n} 0.05 * M_i}{\sum_{i=1}^{n} M_i}$
2791 2792 2793 2794		$\underline{M_i} = \underline{Mass of open molding resin or gel coat (i) used in the past}$
		$\frac{12 \text{ months in an operation, in megagrams.}}{\text{VOM}_{i}} = \frac{\text{Monomer VOM content, by weight percent, of open}}{12 \text{ months in an operation, in megagrams.}}$

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molding resin or gel coat (i) used in the past 12 months in an operation.

		<u>i</u>	=	Subscript denoting a specific open molding resin or coat applied.	gel
		<u>n</u>	=	Number of different open molding resins or gel coa in the past 12 months in an operation.	<u>ts used</u>
		VON	<u>∕I_{nm} =</u>	Non-monomer VOM content, by weight percent, of molding resin or gel coat (i) used in the past 12 mon an operation.	
2795	1 \		~ .	2 	
2796 2797	<u>b)</u>	VOM	Conten	t Limitations	
2798		<u>1)</u>	Excen	t as provided in subsection (e) of this Section, the mo	nomer VOM
2799		<u>content of a subject resin or gel coat shall not exceed the following</u>			
2800		limitations:			
2801					
				Weighted	
				monomer	VOM
				content	
				(weight p	<u>ercent</u>)
			<u>A)</u>	Production resin	

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	i) Atomized spray	<u>28</u>		
	ii) Non-atomized	<u>35</u>		
<u>B)</u>	Pigmented gel coat	<u>33</u>		
<u>C)</u>	<u>Clear gel coat</u> <u>48</u>			
<u>D)</u>	Tooling resin			
	i) <u>Atomized</u>	<u>30</u>		
	ii) <u>Non-atomized</u>	<u>39</u>		
<u>E)</u>	Tooling gel coat	<u>40</u>		

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 12month 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:

$$\frac{\frac{\text{Weighted Average}}{\text{Monomer VOM}}}{\frac{\text{Content}}{\text{Content}}} \equiv \frac{\sum_{i=1}^{n} M_{i} VOM_{i}}{\sum_{i=1}^{n} M_{i}}$$

2813 <u>where:</u>

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- $\underline{M}_{i} \equiv \underline{Mass of open molding resin or gel coat (i) used in the past 12 months in an operation, in megagrams;}$
- $\frac{\text{VOM}_{i}}{\text{molding resin or gel coat (i) used in the past 12 months in an operation;}}$

Ξ	Number of different open molding resins or gel coats used
	in the past 12 months in an operation.

- 2816 c) Emissions Averaging Alternative. The owner or operator of a source subject to 2817 the requirements of this Subpart may elect to include some or all of the subject 2818 resin and gel coat operations at the source in the emissions averaging alternative. Resin and gel coat operations utilizing the emissions averaging alternative shall 2819 2820 comply with a source-specific monomer VOM mass emission limit on a 12-month 2821 rolling average basis, calculated at the end of each calendar month. All subject 2822 resin and gel coat operations that do not utilize the emissions averaging 2823 alternative shall comply with the requirements in subsection (b) or (d) of this 2824 Section, as well as with all other applicable requirements in this Section. 2825
 - 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:

<u>n</u>

 $\frac{Monomer}{VOM \ Limit} \equiv \frac{46(M_R) + 159(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})}{46(M_{PG}) + 291(M_{CG}) + 54(M_{TR}) + 214(M_{TG})}$

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2833 2834	2	where:		
2034		<u>Monome</u> <u>VOM</u> <u>Content</u>	<u>r</u> =	Total allowable monomer VOM that can be emitted from the open molding operations included in the average, expressed in kilograms per 12-month period;
		<u>M_R</u>	Ξ	Mass of production resin used in the past 12 months, excluding any materials that are exempt, expressed in megagrams (Mg);
		<u>M_{PG}</u>		Mass of pigmented gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;
		<u>M_{CG}</u>	=	Mass of clear gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg;
		<u>M_{TR}</u>	Ξ	Mass of tooling resin used in the past 12 months, excluding any materials that are exempt, expressed in Mg;
2835		<u>M_{TG}</u>	=	Mass of tooling gel coat used in the past 12 months, excluding any materials that are exempt, expressed in Mg.
2833 2836 2837 2838 2839	1	side of Equa	tion	befficients associated with each term on the right hand 2 are the allowable monomer VOM emission rates for aterial in units of kg VOM/Mg of material used.
2840 2841 2842 2843 2844 2845		subsequent i subsection (emissions fr	<u>mont</u> c) sh om ti etern	first 12-month averaging period, and at the end of each h, the owner or operator of a source subject to this all use Equation 3 to calculate the monomer VOM he resin and gel coat operations included in the emissions nine whether the emissions exceed the limitation Equation 2.
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with one.

Equation 3:

 $(PV_R)(M_R) + (PV_{PG})(M_{PG}) + (PV_{CG})(M_{CG})$ Monomer VOM Ξ $(PV_{TR})(M_{TR}) + (PV_{TG})(M_{TG})$ Emissions

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where:

<u>Monomer</u> = <u>VOM</u> <u>Emissions</u>		Monomer VOM emissions calculated using the monomer VOM emission equations for each operation included in the average, expressed in kilograms;
<u>PV_R</u>	Ξ	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);
<u>M</u> _R	Ξ	Mass of production resin used in the past 12 months, expressed in Mg;
<u>PV_{PG}</u>	Ξ	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;
<u>M_{PG}</u>	=	Mass of pigmented gel coat used in the past 12 months, expressed in Mg;
<u>PV_{CG}</u>	Ξ	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;
<u>M_{CG}</u>	Ξ	Mass of clear gel coat used in the past 12 months, expressed in Mg;
<u>PV_{TR}</u>	=	Weighted-average monomer VOM emission rate for tooling resin used in the past 12 months, expressed in kg/Mg, calculated pursuant to Equation 4;
<u>M_{TR}</u>	Ξ	Mass of tooling resin used in the past 12 months, expressed in Mg;
<u>PV_{TG}</u>	Ξ	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;
<u>M_{TG}</u>	=	Mass of tooling gel coat used in the past 12 months, expressed in Mg.

<u>3)</u> For purposes of Equation 3, the owner or operator of a source subject to this subsection (c) shall use Equation 4 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

$$PV_{OP} = \frac{\sum_{i=1}^{n} M_i PV_i}{\sum_{i=1}^{n} M_i}$$

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2863	where:
2001	$\frac{PV_{OP}}{PV_{OP}} = \frac{Weighted-average monomer VOM emission rate for each}{open molding operation (PV_R, PV_{PG}, PV_{CG}, PV_{TR}, and PV_{TG}) included in the average, expressed in kg of monomer VOM per Mg of material applied;}$
	$\underline{M}_{i} = \underline{Mass of resin or gel coat (i) used within an operation in the past 12 months, expressed in Mg;}$
	<u>n</u> = <u>Number of different open molding resins and gel coats</u> <u>used within an operation in the past 12 months;</u>
	$\frac{PV_i}{PV_i} = \frac{The \text{ monomer VOM emission rate for resin or gel coat (i)}}{\frac{used within an operation in the past 12 months,}{expressed in kg of monomer VOM per Mg of material}} \\ \frac{used within a operation in the past 12 months,}{applied. The monomer VOM emission rate formulas in} \\ \frac{used volume}{Subsection (c)(4) of this Section shall be used to compute} \\ \frac{PV_i}{PV_i}. \text{ If a source includes filled resins in the emissions} \\ \frac{using Equation 5 in subsection (e)(3) of this Section, as}{Sthe value of PV_i for those resins;} \\ \end{array}$
29/5	$\underline{i} \equiv \underline{Subscript denoting a specific open molding resin or gel}{coat applied.}$
2865 2866 2867 2868	4) For purposes of Equation 4 and subsection (e)(3) of this Section, the following monomer VOM emission rate formulas shall apply:

2869			<u>A)</u>	Produc	ction resin, tooling resin:
2870					2.425
2871				<u>i)</u>	Atomized: $0.014 \text{ x} (\text{Resin VOM}\%)^{2.425}$
2872					
2873				<u>ii)</u>	Atomized, plus vacuum bagging with roll-out: 0.01185 x
2874					$\frac{(\text{Resin VOM}\%)^{2.425}}{(\text{Resin VOM}\%)^{2.425}}$
2875					
2876				<u>iii)</u>	Atomized, plus vacuum bagging without roll-out: 0.00945
2877					$\frac{x (\text{Resin VOM}\%)^{2.425}}{x}$
2878					
2879				<u>iv)</u>	Nonatomized: 0.014 x (Resin VOM%) ^{2.275}
2880					
2881				<u>v)</u>	Nonatomized, plus vacuum bagging with roll-out: 0.0110 x
2882					Nonatomized, plus vacuum bagging with roll-out: 0.0110 x (Resin VOM%) ^{2.275}
2883					
2884				vi)	Nonatomized, plus vacuum bagging without roll-out:
2885					Nonatomized, plus vacuum bagging without roll-out: 0.0076 x (Resin VOM%) ^{2.275}
2886					
2887			<u>B)</u>	Pigmer	nted gel coat, clear gel coat, tooling gel coat; 0,445 x (Gel
2888			<u></u>	Coat V	nted gel coat, clear gel coat, tooling gel coat: 0.445 x (Gel VOM%) ^{1.675} .
2889				<u>0000 1</u>	<u>om/0)</u>
2890	<u>d)</u>	Canture	- Syste	m and (Control Device Requirements. No owner or operator of a
2891	<u>a</u> j				requirements of this Subpart that is utilizing a capture system
2892			-		a subject resin or gel coat operation shall conduct that
2893					ollowing requirements are satisfied:
2893		operation	JII UIIIC	<u>55 me n</u>	onowing requirements are satisfied.
2895		1)	Anof	arhuma	r or outhon adapthor is installed and anorated that maste the
					r or carbon adsorber is installed and operated that meets the
2896					forth in this subsection (d). The owner or operator may use
2897					control system other than an afterburner or carbon adsorber
2898					complies with all limitations in this subsection (d), the owner
2899					bmits a plan to the Agency detailing appropriate monitoring
2900					nethods, recordkeeping requirements, and operating
2901					the control device, and the plan is approved by the Agency
2902			and US	<u>SEPA w</u>	vithin federally enforceable permit conditions;
2903					
2904					issions at the outlet of the control device meet an emissions
2905			<u>limitat</u>	ion dete	ermined using Equation 2 in subsection (c)(1) of this Section.
2906			<u>In Equ</u>	ation 2,	however, instead of using the mass of each material used
2907			over th	ne past 1	2 months to determine the emission limitation, the owner or
2908			operate	or shall	use the mass of each material used during the applicable
2909			<u>contro</u>	<u>l device</u>	performance test;
2910					

2911 2912 2913		 <u>3)</u> The owner or operator complies with all testing and monitoring requirements set forth in Section 218.892 of this Subpart. Filled Resins. For all filled production and tooling resins, the owner or operator rates
2914 2915 2916 2917 2918 2919 2920 2921 2922	<u>e)</u>	Filled Resins. For all filled production and tooning reome, and other second environment of a source subject to this Subpart shall adjust the monomer VOM emission rates determined pursuant to Section 218.891(b) and (c) of this Subpart using Equation 5 in subsection (e)(3). If complying pursuant to Section 218.891(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 218.891(a).
2923 2924 2925 2926 2927		 <u>Tooling Resin: 54 kg (119.1 lbs) monomer VOM/Mg filled resin applied;</u> <u>Production Resin: 46 kg (101.4 lbs) monomer VOM/Mg filled resin applied;</u>
2928 2929 2930 2931		3) Equation 5: $PV_F = PV_U \times \frac{100 - \%Filler}{100}$
2932 2933 2934		$\frac{PV_F}{PV_F} \equiv \frac{\text{The as-applied monomer VOM emission rate for the}}{\frac{\text{filled production resin or tooling resin, expressed in kg}}{\frac{\text{monomer VOM per Mg of filled material;}}}$
		$\frac{PV_{U}}{E} = \frac{\text{The monomer VOM emission rate for the unfilled resin,}}{\frac{before filler is added, calculated using the formulas in}{Section 218.891(b)(4) of this Subpart;}}$
		$\frac{\% \text{ Filler}}{\text{system.}} \equiv \frac{\text{The weight-percent of filler in the as-applied filled resin}}{\text{system.}}$
2935 2936 2937 2938	Ð	The limitations in subsections (a) through (e) of this Section shall not apply to the following materials. These materials shall instead comply with the applicable requirements set forth in subsections $(f)(1)$ through $(f)(3)$.
2939 2940 2941 2942		1) <u>Production resins, including skin coat resins, that must meet specifications</u> 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-

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	saving appliances approved under 46 CFR Subchapter Q, incorporated by reference in Section 218.112 of this Part, or for use in the construction of reference in Section 218.112 of this Part, or for Subchapter T, incorporated
2943	reference in Section 210.112 of the CDD Subshapter T incorporated
2944	small passenger vessels regulated of this Part. The owner or operator of a
2945	by reference in Section 218.112 of uns run: source subject to this Subpart shall apply all such resins with
2946	head to this simulant share and
2947	nonatomizing resin application equipment
2948	to the algor and tooling gel coats
2949	2) <u>Production and tooling resins, and pointeneed</u> 2) <u>Production and tooling resins, and touch ups. These materials shall not</u>
2950	2) <u>Production and tooling resins, and pigmented, clear, and tooling not</u> used for part or mold repair and touch ups. These materials shall not exceed 1 percent, by weight, of all resins and gel coats used at a subject
2951	
2952	source on a <u>12-month forming average</u>
2953	t curtin costs The owner or
2954	3) Pure, 100 percent vinylester resins used for skill coars. The end of a source subject to this Subpart shall apply these resins with operator of a source subject to this Subpart shall apply these resins with
2955	operator of a source subject to time start, and the total amount of the
2956	operator of a source subject to this Subpart shall apply accurate non-atomizing resin application equipment, and the total amount of the
2957	non-atomizing resin application equipment, and the total monometers and the resins shall not exceed 5 percent, by weight, of all resins used at the resins shall not exceed 5 percent, by weight, of all resins used at the
2958	subject source on a 12-monum romme
2959	g) No owner or operator of a source subject to this Subpart shall use VOM- no owner or operator of a source subject to this Subpart shall use VOM- in a colutions to remove cured resins and gel coats from fibergl ass
2960	g) <u>No owner or operator of a source subject to this Subpart shall use void</u> <u>containing cleaning solutions to remove cured resins and gel coats from fibergl ass</u> <u>containing cleaning solutions to remove cured resins and gel coats from fibergl ass</u>
2961	antoining cleaning solutions to reason and the no owner or obciator
2962	g) <u>No owner of operator</u> containing cleaning solutions to remove cured resins and ger coals from a boat manufacturing application equipment. Additionally, no owner or operator boat manufacturing application equipment. Additionally, no owner or operator shall use VOM-containing cleaning solutions for routine cleaning of application
2963	shall use VOM-containing oreanize
2964	equipment unless:
2965	1) The VOM content of the cleaning solution is less than or equal to 5
2966 2967	1) The VOM content of the crouning s
2967	percent, by weight; or
2908	2) The composite vapor pressure of the cleaning solution is less than or e.qual
2909	2) <u>The composite vapor pressure on</u>
2970	to 0.50 mmHg at 68°F.
2972	h) No owner or operator of a source subject to this Subpart shall use resin or gel coat h) No owner or operator of a source subject to this Subpart shall use resin or gel coat
2972	h) <u>No owner or operator of a source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to the source subject to this Subpart shall use recommended in the source subject to this Subpart shall use recommended in the source subject to </u>
2974	h) No owner of operator of constant of a capacity equal to or greater than 208 fitters (55 game) mixing containers with a capacity equal to or greater than 208 fitters (55 game) including those used for on-site mixing of putties and polyputties, unless suc h including those used for on-site mixing of putties and polyputties, except where h including those overs with no visible gaps in place at all times, except where h ixing
2975	including those used for on-site mixing of putties and polyputties, unterpresent the second s
2976	containers have covers with Ad
2977	material is being manually added to or removed from a container. or pumping equipment is being placed in or removed from a container.
2978	or pumping equipment is being f
2979	(Source: Added at 34 Ill. Reg, effective)
2980	
2981	a see The time and Monitoring Requirements
2982	Section 218.892 Testing and Monitoring Requirements
2983	
2984	a) <u>Testing to demonstrate compliance with the requirements of Section 2000</u> this Subpart shall be conducted by the owner or operator within 90 days after a
2985	this Suppart Struct of

			by the Agency, or as otherwise specified in this Subpart. The testing shall
2986			
2987		be conc	hucted at the expense of the owner of operator and are builty the Agency in writing 30 days in advance of conducting the testing to
2988		shall no	he Agency to be present during testing.
2989			
2990		-	g to demonstrate compliance with the monomer VOM content limitations
2991	<u>b)</u>	Testing	in and gel coat materials in Section 218.891(b) of this Subpart shall be
2992			
2993		conduc	ordance with SCAQMD 312-91, incorporated by reference in Section
2994		in acco	ordance will SCAQNID STE STATE
2995			2 of this Part.
2996			wner or operator of a source complying with this Subpart pursuant to
2997	<u>c)</u>	The or	n 218.891(d) shall comply with the following:
2998		Sectio	
2999			By May 1, 2011, or upon initial start-up, whichever is later, and upon
3000		<u>1)</u>	
3001			
3002			compliance with the emission limitation determined pursuant to Section
3003			compliance with the emission minuted as
3004			<u>218.891(d).</u>
3005			Subsequent to the initial performance test described in subsection $(c)(1)$ of
3006		<u>2)</u>	a the design of the set one net to the test por our test por the set of the s
3007			a sector wood to demonstrate compliance with over-
3008			
3009			a task is boing conducted following all chocodanee of the
3010			performance test is being conducted tone and parameters as described in subsection (c)(3) of this Section, or per a
3011			parameters as described in subsection (one)
3012			request by the Agency.
3013			Monitor and record relevant operating parameters, including the control
3014		<u>3)</u>	
3015			
3016			fiberglass boat manufacturing process, during eter- performance test used to demonstrate compliance with Section 218.891(d).
3017			
3018			the parameters initial another portonicity
3019			
3020			
3021			in the
3022			the submotor by more many for the submotor by
3023			star shall conduct additional periorillance testing in according
3024			this Section within 10 operating days after the exceedance.
3025			this Section within 10 operating early and
3026			

3027 3028 3029 3030	<u>4)</u>	for test	ting to d	and procedures of Section 218.105(d) and (f) shall be used demonstrate compliance with the requirements of Section this Subpart, as follows:
3031 3032 3033 3034 3035 3036 3037		<u>A)</u>	CFR 60 218.11 in redu the dry	ect the sampling sites, Method 1 or 1A, as appropriate, 40 0, Appendix A, incorporated by reference at Section 2 of this Part. The sampling sites for determining efficiency cing VOM from the dryer exhaust shall be located between er exhaust and the control device inlet, and between the of the control device and the exhaust to the atmosphere;
3038 3039 3040 3041		Method 2, 2	ermine the volumetric flow rate of the exhaust stream, d 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, Appendix A, prated by reference at Section 218.112 of this Part;	
3042 3043 3044 3045 3046 3047 3048		<u>C)</u>	enterin approp Section afterbu	ermine the VOM concentration of the exhaust stream g and exiting the control device, Method 25 or 25A, as riate, 40 CFR 60, Appendix A, incorporated by reference at a 218.112 of this Part. For thermal and catalytic rners, Method 25 must be used except under the following stances, in which case Method 25A must be used:
3049 3050 3051			<u>i)</u>	The allowable outlet concentration of VOM from the control device is less than 50 ppmv, as carbon;
3052 3053 3054			<u>ii)</u>	The VOM concentration at the inlet of the control device and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and
3055 3056 3057 3058 3059			<u>iii)</u>	Due to the high efficiency of the control device, the anticipated VOM concentration at the control device exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A
3060 3061 3062 3063				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
3064 3065 3066				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
3067 3068 3069				either Method 25 or 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

3070				the exhaust concentration is above 50 ppmy, as carbon, the
3071				source must retest again using Method 25;
3072				
3073			<u>D)</u>	Notwithstanding the criteria or requirements in Method 25, which
3074				specifies a minimum probe temperature of 129°C (265°F), the
3075				probe must be heated to at least the gas stream temperature of the
3076				dryer exhaust, typically close to 176.7°C (350°F); and
3077				
3078			<u>E)</u>	During testing, the fiberglass boat manufacturing operation shall
3079				be operated at representative operating conditions and flow rates.
3080				
3081		<u>5)</u>	<u>If an a</u>	afterburner or carbon adsorber is used to demonstrate compliance,
3082			the ov	vner or operator shall:
3083				
3084			<u>A)</u>	Install, calibrate, operate, and maintain temperature monitoring
3085				devices with an accuracy of 3°C or 5°F on the emissions control
3086				system in accordance with Section 218.105(d)(2) of this Part and
3087				in accordance with the manufacturer's specifications. Monitoring
3088				shall be performed at all times when the emissions control system
3089				is operating; and
3090				
3091			<u>B)</u>	Install, calibrate, operate and maintain, in accordance with
3092				manufacturer's specifications, a continuous recorder on the
3093				temperature monitoring devices, such as a strip chart, recorder or
3094				computer, with at least the same accuracy as the temperature
3095				monitor.
3096				
3097		<u>6)</u>	<u>If an e</u>	emissions control system other than an afterburner or carbon
3098			<u>adsort</u>	per is used to demonstrate compliance, the owner or operator shall
3099			install	, maintain, calibrate, and operate the monitoring equipment as set
3100			<u>forth i</u>	in the owner's or operator's plan approved by the Agency and
3101			<u>USEP</u>	A pursuant to Section 218.891(d).
3102				
3103	<u>d)</u>	<u>Testir</u>	ng to der	monstrate compliance with the VOM content limitations for cleaning
3104				ection 218.891(g) of this Subpart, and with the non-monomer VOM
3105		<u>conte</u>	<u>nt limita</u>	ations for resin and gel coat materials in Section 218.891(a) of this
3106		<u>Subpa</u>	art, shall	be conducted upon request of the Agency, or as otherwise specified
3107		<u>in this</u>	s Subpar	rt, as follows:
3108				
3109		<u>1)</u>		pplicable test methods and procedures specified in Section
3110			<u>218.1</u>	05(a) of this Part shall be used; provided, however, Method 24,
3111			_	porated by reference at Section 218.112 of this Part, shall be used to
3112			demor	nstrate compliance; or

*

3113 3114 3115 3116 3117 3118 3119 3120 3121 3122	<u>e)</u>	conte	may be u tests of t in Section used to o wner or op	ning solvents, the manufacturer's specifications for VOM content used if the manufacturer's specifications are based on results of the VOM content conducted in accordance with methods specified on 218.105(a) of this Part; provided, however, Method 24 shall be determine compliance. perator of a source subject to this Subpart and relying on the VOM leaning solution to comply with Section 218.891(g)(1) of this
3123 3124 3125		<u>1)</u>		ning solutions that are prepared at the source with equipment that ically mixes cleaning solvent and water (or other non-VOM):
3125			automan	icany mixes cleaning solvent and water (or other non-v OWI).
3120			A) T	Install anomate maintain and calibrate the automatic feed
3127				Install, operate, maintain, and calibrate the automatic feed equipment in accordance with manufacturer's specifications to
3128				regulate the volume of each of the cleaning solvent and water (or
3130				other non-VOM), as mixed; and
3131			<u>u</u>	Since non- v Olvi), as mixed, and
3132			<u>B)</u> F	Pre-set the automatic feed equipment so that the consumption rates
3133				of the cleaning solvent and water (or other non-VOM), as applied,
3134				comply with Section 218.891(g)(1);
3135			-	
3136		<u>2)</u>	For clear	ning solutions that are not prepared at the source with automatic
3137				ipment, keep records of the usage of cleaning solvent and water
3138			-	r non-VOM) as set forth in Section 218.894(g) of this Subpart.
3139				
3140	<u>f)</u>	Testir	ig to demo	onstrate compliance with the VOM composite partial vapor
3141		pressu	<u>ire limitati</u>	ion for cleaning solvents set forth in Section 218.891(g) of this
3142		<u>Subpa</u>	<u>urt shall be</u>	e conducted in accordance with the applicable methods and
3143		proce	dures set f	forth in Section 218.110 of this Part.
3144				
3145	(Sourd	ce: Ado	led at 34 I	[1]. Reg, effective)
3146				
3147	Section 218.8	<u>894 Re</u>	cordkeepi	ing and Reporting Requirements
3148		m 1		
3149	<u>a)</u>			perator of a source exempt from the limitations of this Subpart
3150		becau	se of the c	criteria in Section 218.890(a) of this Subpart shall:
3151		1)	D-134	
3152		<u>1)</u>		1, 2011, or upon initial start-up, whichever is later, submit a
3153			certificat	tion to the Agency that includes the following:
3154				

31573158B)Calculations that demonstrate that combined emissions of VOM3159from all subject fiberglass boat manufacturing operations3160(including solvents used for cleanup operations associated with the3161fiberglass boat manufacturing operation) at the source never equal3162or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution3163control equipment. To calculate daily emissions of VOM, the3164owner or operator shall determine the monthly emissions of VOM3165from fiberglass boat manufacturing operations at the source3166(including solvents used for cleanup operations) and divide the amount3168by the number of days during that calendar month that the3169fiberglass boat manufacturing operations) and divide the amount3168by the number of days during that calendar month that the31702)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 the record upon request by the Agency.3177b)All sources subject to the requirements of this Subpart shall:	3155 3156			<u>A)</u>	<u>A declaration that the source is exempt from the requirements in</u> this Subpart because of the criteria in Section 218.890(a);
3158B)Calculations that demonstrate that combined emissions of VOM from all subject fiberglass boat manufacturing operations3160(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 					the Buopart because of the efferta in Beetion 210.090(u),
3159from all subject fiberglass boat manufacturing operations3160(including solvents used for cleanup operations associated with the3161fiberglass boat manufacturing operation) at the source never equal3162or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution3163control equipment. To calculate daily emissions of VOM, the3164owner or operator shall determine the monthly emissions of VOM3165from fiberglass boat manufacturing operations at the source3166(including solvents used for cleanup operations associated with the3167fiberglass boat manufacturing operations) and divide the amount3168by the number of days during that calendar month that the3169fiberglass boat manufacturing operations were in operation;317031712)31712)3172Notify the Agency of any record that shows that the combined emissions3173source, including related cleaning activities, ever equal or exceed 6.83174kg/day (15 lbs/day), in the absence of air pollution control equipment,3175within 30 days after the event occurs, and provide copies of the record3176upon request by the Agency.317731783178b)3179All sources subject to the requirements of this Subpart shall:				B)	Calculations that demonstrate that combined emissions of VOM
3160(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 at the source3160(including solvents used for cleanup operations at the source (including solvents used for cleanup operations at the source3166from 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 the fiberglass boat manufacturing operations were in operation;31702)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 the record upon request by the Agency.3177b)All sources subject to the requirements of this Subpart shall: 3179				<u>D</u>]	
3161fiberglass 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 the fiberglass boat manufacturing operations were in operation;31702)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 the record upon request by the Agency.3177b)All sources subject to the requirements of this Subpart shall: 3179					
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3164owner or operator shall determine the monthly emissions of VOM3165from fiberglass boat manufacturing operations at the source3166(including solvents used for cleanup operations associated with the3167fiberglass boat manufacturing operations) and divide the amount3168by the number of days during that calendar month that the3169fiberglass boat manufacturing operations were in operation;3170317131702)31712)3172of VOM from subject fiberglass boat manufacturing operations at the3173source, including related cleaning activities, ever equal or exceed 6.83174kg/day (15 lbs/day), in the absence of air pollution control equipment,3176within 30 days after the event occurs, and provide copies of the record3177upon request by the Agency.3178b)All sources subject to the requirements of this Subpart shall:					
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3166(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 the fiberglass boat manufacturing operations were in operation;3168by the number of days during that calendar month that the fiberglass boat manufacturing operations were in operation;31702)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 the record upon request by the Agency.3177b)All sources subject to the requirements of this Subpart shall:					
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3168by the number of days during that calendar month that the fiberglass boat manufacturing operations were in operation;317031712)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 the record upon request by the Agency.3177b)All sources subject to the requirements of this Subpart shall:					
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3172of VOM from subject fiberglass boat manufacturing operations at the3173source, including related cleaning activities, ever equal or exceed 6.83174kg/day (15 lbs/day), in the absence of air pollution control equipment,3175within 30 days after the event occurs, and provide copies of the record3176upon request by the Agency.317731783179b)All sources subject to the requirements of this Subpart shall:			2)		
3173source, including related cleaning activities, ever equal or exceed 6.83174kg/day (15 lbs/day), in the absence of air pollution control equipment,3175within 30 days after the event occurs, and provide copies of the record3176upon request by the Agency.317731783179b)All sources subject to the requirements of this Subpart shall:			<u>2)</u>		
3174kg/day (15 lbs/day), in the absence of air pollution control equipment,3175within 30 days after the event occurs, and provide copies of the record3176upon request by the Agency.317731783178b)3179All sources subject to the requirements of this Subpart shall:					
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3176 upon request by the Agency. 3177 3177 3178 b) All sources subject to the requirements of this Subpart shall: 3179					
31773178b)All sources subject to the requirements of this Subpart shall:3179					
3178b)All sources subject to the requirements of this Subpart shall:3179				<u>upon r</u>	equest by the Agency.
3179					
	3178	<u>b)</u>	<u>All sou</u>	urces su	bject to the requirements of this Subpart shall:
3180 1) By May 1, 2011, or upon initial start-up of the source, whichever is later	3179				
$\underline{x_1}$ $\underline{x_1}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ $\underline{x_2}$ $\underline{x_2}$ $\underline{x_1}$ $\underline{x_2}$ \underline	3180		<u>1)</u>	<u>By Ma</u>	y 1, 2011, or upon initial start-up of the source, whichever is later,
3181 and upon start-up of a new fiberglass boat manufacturing operation at the	3181			and up	on start-up of a new fiberglass boat manufacturing operation at the
3182 source, submit a certification to the Agency that includes:	3182			source	, submit a certification to the Agency that includes:
3183	3183				
A) Identification of each subject fiberglass boat manufacturing	3184			<u>A)</u>	Identification of each subject fiberglass boat manufacturing
3185 operation as of the date of certification;	3185			·	operation as of the date of certification;
3186	3186				
3187 B) A declaration that all subject fiberglass boat manufacturing	3187			B)	A declaration that all subject fiberglass boat manufacturing
3188 operations, including related cleaning operations, are in					
3189 compliance with the requirements of this Subpart;					
3190					
3191 <u>C)</u> <u>The limitation with which each subject fiberglass boat</u>				C)	The limitation with which each subject fiberglass boat
3192 manufacturing operation will comply (i.e., the VOM content					
3193 limitation, the emissions averaging alternative, or the emissions					
3194 <u>control system alternative);</u>					
3195					<u></u>
3196 D) Initial documentation that each subject fiberglass boat				D)	Initial documentation that each subject fiberglass boat
3197 manufacturing operation will comply with the applicable				<u> </u>	

3

3198 3199				limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
3200 3201 3202			<u>E)</u>	<u>Identification of the methods that will be used to demonstrate</u> continuing compliance with the applicable limitations;
3203 3204 3205 3206			<u>F)</u>	<u>A description of the practices and procedures that the source will</u> <u>follow to ensure compliance with the limitations in Section</u> 218.891(h) of this Subpart;
3207 3208 3209 3210			<u>G)</u>	A description of each fiberglass boat manufacturing operation exempt pursuant to Section 218.890(b) of this Subpart, if any;
3210 3211 3212 3213			<u>H)</u>	<u>A description of materials subject to Section 218.891(f) of this</u> <u>Subpart, if any, used in each fiberglass boat manufacturing</u> operation;
3214 3215 3216		<u>2)</u>		st 30 calendar days before changing the method of compliance in lance with Section 218.891(b), (c), and (d), notify the Agency in
3217 3218 3219			writin	g of the change. The notification shall include a demonstration of iance with the newly applicable subsection;
3220 3221 3222		<u>3)</u>	Subpa	the Agency in writing of any violation of the requirements of this rt within 30 days following the occurrence of the violation and le records documenting the violation upon request by the Agency;
3223 3224 3225		<u>4)</u>	Retain	all records required by this Section for at least three years and those records available to the Agency upon request.
3226 3227 3228	<u>c)</u>		wner or	operator of a fiberglass boat manufacturing operation subject to the Section 218.891 of this Subpart and complying by means of Section
3229 3230		218.89	91(b) sh	all comply with the following.
3231 3232 3233		<u>1)</u>	certificand V	ay 1, 2011, or upon initial start-up, whichever is later, submit a cation to the Agency that includes the name, identification number, OM content of each subject resin and gel coat as applied each day
3234 3235 3236		<u>2)</u>	Collec	th subject fiberglass boat manufacturing operation;
3237 3238			<u>boat n</u>	nanufacturing operation complying with Section 218.891(b):

3239			<u>A)</u>	The name, identification number, and VOM content of each
3240				subject resin and gel coat as applied each day by each fiberglass
3241				boat manufacturing operation; and
3242				
3243			<u>B)</u>	If complying with Section 218.891(b)(2), the daily weighted
3244				average VOM content of all subject resins and gel coats as applied
3245				by each subject fiberglass boat manufacturing operation.
3246				
3247	<u>d)</u>	The ov	vner or	operator of a fiberglass boat manufacturing operation subject to the
3248				of Section 218.891 of this Subpart and complying by means of
3249		-		91(c) shall:
3250				
3251		<u>1)</u>	On and	1 after May 1, 2011, collect and record the following information
3252			each m	
3253				
3254			<u>A)</u>	The amount of production resin, pigmented gel coat, clear gel coat,
3255			<u> </u>	tooling resin, and tooling gel coat used in each subject fiberglass
3256				boat manufacturing operation;
3257				
3258			B)	The VOM content of each production resin, pigmented gel coat,
3259			<u> </u>	clear gel coat, tooling resin, and tooling gel coat used in each
3260				subject fiberglass boat manufacturing operation;
3261				
3262			<u>C)</u>	Total monthly VOM emissions for all subject fiberglass boat
3263			<u> </u>	manufacturing operations;
3264				
3265		<u>2)</u>	At the	end of the first 12-month averaging period, and at the end of each
3266		<u> </u>		uent month, collect and record the following information:
3267				
3268			<u>A)</u>	The monomer VOM mass emission limit for all subject fiberglass
3269				boat manufacturing operations for the applicable 12-month
3270				averaging period, with supporting calculations;
3271				
3272			<u>B)</u>	The total actual emissions of VOM from all subject fiberglass boat
3273				manufacturing operations for the applicable 12-month averaging
3274				period.
3275				
3276	<u>e)</u>	The ov	vner or	operator of a fiberglass boat manufacturing operation subject to the
3277				of Section 218.891 of this Subpart and complying by means of
3278				91(d) shall:
3279				

3280	<u>1)</u>	By Ma	y 1, 2011, or upon initial start-up, whichever is later, and upon
3281			p of a new control device, submit a certification to the Agency that
3282			es the following:
3283			
3284		<u>A)</u>	The type of control device used to comply with the requirements of
3285			Section 218.891(d);
3286			
3287		<u>B)</u>	The results of all tests and calculations necessary to demonstrate
3288		<u>~</u>]	compliance with the requirements of Section 218.891(d); and
3289			compliance with the requirements of Section 210.091(d), and
3290		<u>C)</u>	A declaration that the monitoring equipment required under
3291		$\overline{\sim}$	Section 218.892 of this Subpart has been properly installed and
3292			calibrated according to manufacturer's specifications;
3293			canorated according to manufacturer's specifications,
3294	<u>2)</u>	Within	90 days after conducting testing pursuant to Section 218.892,
3295	<u>~)</u>		to the Agency a copy of all test results, as well as a certification
3296			cludes the following:
3297		<u>ulai III</u>	cludes the following.
3298		<u>A)</u>	A declaration that all tests and calculations necessary to
3299		<u>A</u>)	demonstrate whether the fiberglass boat manufacturing operation is
3300			
3301			in compliance with Section 218.891(d) have been properly performed;
3302			pertonned,
3303		ומ	A statement with other the Changles head ways for the income time
		<u>B)</u>	A statement whether the fiberglass boat manufacturing operations
3304			are or are not in compliance with Section 218.891(d);
3305		\sim	
3306		<u>C)</u>	The emissions limitation applicable during the control device
3307			performance test, with supporting calculations;
3308			
3309		<u>D)</u>	The operating parameters of the fiberglass boat manufacturing
3310			process during testing, as monitored in accordance with Section
3311			<u>218.892;</u>
3312	2)	0 11	
3313	<u>3)</u>		t and record daily the following information for each fiberglass boat
3314			acturing operation subject to the requirements of Section
3315		218.89	1(d), and submit that information to the Agency upon request:
3316		• >	
3317		<u>A)</u>	Afterburner or other approved control device monitoring data in
3318			accordance with Section 218.892 of this Subpart;
3319		D)	
3320		<u>B)</u>	A log of operating time for the control device and monitoring
3321			equipment;
3322			

3323			<u>C)</u>	A maintenance log for the control device and monitoring
3324				equipment detailing all routine and non-routine maintenance
3325				performed, including dates and duration of any outages;
3326				
3327			<u>D)</u>	Information to substantiate that the fiberglass boat manufacturing
3328				operation is operating in compliance with the parameters
3329				determined pursuant to Section 218.892.
3330				
3331	<u>f)</u>	The ov	vner or	operator of a source subject to the requirements in Section
3332				this Subpart shall collect and record the following information for
3333				s boat manufacturing operation:
3334				
3335		<u>1)</u>	The na	me and identification number of each material subject to Section
3336		<u> </u>		P1(f) as applied each day by each subject fiberglass boat
3337				acturing operation;
3338				
3339		<u>2)</u>	If subi	ect to Section 218.891(f)(2), the amount of production and tooling
3340		<u>-</u> /	-	and pigmented, clear, and tooling gel coats used for part or mold
3341				and touch-ups, used each month at the subject source, and the total
3342			-	t of all resins and gel coats used each month at the subject source;
3343			amoun	t of an results and ger coats used each month at the subject source,
3344		<u>3)</u>	If subi	ect to Section 218.891(f)(3), the amount of pure, 100 percent
3345		51		ster resins used for skin coats each month at the subject source, and
3346				al amount of all resins used each month at the subject source.
3347				at amount of an resins used each month at the subject source.
3348	a)	The or	unor or	operator of a source subject to the requirements of Section 218.891
3349	<u>g)</u>			t shall collect and record the following information for each
3350			-	ion used in each fiberglass boat manufacturing operation:
3351		cicaiiii	ig solut	ion used in each noergiass boat manufacturing operation.
3352		1)	For on	ab alconing colution for which the owner or energies ratios on the
3353		<u>1)</u>		ch cleaning solution for which the owner or operator relies on the
3354				content to demonstrate compliance with Section 218.891(g) of this
			Suopai	t and that is prepared at the source with automatic equipment:
3355			A)	The news and identification of a shall show in a shall be
3356			<u>A)</u>	The name and identification of each cleaning solution;
3357				
3358			<u>B)</u>	The VOM content of each cleaning solvent in the cleaning
3359				solution, as determined in accordance with Section 218.892(d) of
3360				this Subpart;
3361			C)	
3362			<u>C</u>)	Each change to the setting of the automatic equipment, with date,
3363				time, description of changes in the cleaning solution constituents
3364				(e.g., cleaning solvents), and a description of changes to the
3365				proportion of cleaning solvent and water (or other non-VOM);

*

3366			
3367		<u>D)</u>	The proportion of each cleaning solvent and water (or other non-
3368			VOM) used to prepare the as-used cleaning solution;
3369			
3370		<u>E)</u>	The VOM content of the as-used cleaning solution, with
3371			supporting calculations; and
3372			
3373		<u>F)</u>	A calibration log for the automatic equipment, detailing periodic
3374		<u> </u>	checks;
3375			
3376	<u>2)</u>	For ea	ch batch of cleaning solution for which the owner or operator relies
3377	<i>=</i> ≠		VOM content to demonstrate compliance with Section 218.891(g),
3378			at is not prepared at the source with automatic equipment:
3379		und the	at to not propured at the bourde with automatic equipment.
3380		<u>A)</u>	The name and identification of each cleaning solution;
3381			The manie and radiation of each of each of each of the second sec
3382		<u>B)</u>	Date and time of preparation, and each subsequent modification, of
3383		21	the batch;
3384			
3385		<u>C)</u>	The VOM content of each cleaning solvent in the cleaning
3386		\overline{c}	solution, as determined in accordance with Section 218.892(d);
3387			solution, as determined in accordance with bection 210.092(u),
3388		<u>D)</u>	The total amount of each cleaning solvent and water (or other non-
3389		\overline{D}	VOM) used to prepare the as-used cleaning solution; and
3390			voraj used to prepare the as-used creating solution, and
3391		<u>E)</u>	The VOM content of the as-used cleaning solution, with
3392		<u>D1</u>	supporting calculations;
3393			<u>supporting valourations</u> ,
3394	<u>3)</u>	For ea	ch batch of cleaning solution for which the owner or operator relies
3395	<u>J</u>		vapor pressure of the cleaning solution to demonstrate compliance
3396			ection 218.891(g):
3397		with b	<u>conon 210.071(g).</u>
3398		<u>A)</u>	The name and identification of each cleaning solution;
3399		<u>11</u>	The name and identification of each cleaning solution,
3400		<u>B)</u>	Date and time of preparation, and each subsequent modification, of
3401		<u>D</u>]	the batch;
3402			
3403		<u>C)</u>	The molecular weight, density, and VOM composite partial vapor
3404		\Box	pressure of each cleaning solvent, as determined in accordance
3405			with Section 218.892(f) of this Subpart;
3405			man booton 210.072(1) of uns Buopart,
3407		<u>D)</u>	The total amount of each cleaning solvent used to prepare the as-
3408		21	used cleaning solution; and
2100			used exemining boundion, and

14

3409			
3410		<u>E)</u>	The VOM composite partial vapor pressure of each as-used
3411			cleaning solution, as determined in accordance with Section
3412			<u>218.110 of this Part.</u>
3413			
3414	(Sour	ce: Added at 3	84 Ill. Reg, effective)
3415			
3416		SUBPART.	IJ: MISCELLANEOUS INDUSTRIAL ADHESIVES
3417			
3418	Section 218.	900 Applicab	ility
3419		_	
3420 3421	<u>a)</u>		ovided in subsection (b) of this Section, on and after May 1, 2011, the s of this Subpart shall apply to miscellaneous industrial adhesive
3422		application o	perations at sources where the total actual VOM emissions from all
3423		such operation	ons, including related cleaning activities, equal or exceed 6.8 kg/day
3424			calculated in accordance with Section 218.904(a)(1)(B), in the
3425		absence of a	ir pollution control equipment.
3426			
3427	<u>b)</u>	<u>Notwithstanc</u>	ding subsection (a) of this Section:
3428			
3429			equirements of this Subpart shall not apply to miscellaneous
3430		indus	trial adhesive application operations associated with the following:
3431			
3432		<u>A)</u>	Aerospace coatings;
3433			
3434		<u>B)</u>	Metal furniture coatings;
3435		-	
3436		<u>C)</u>	Large appliance coatings;
3437			
3438		<u>D)</u>	Flat wood paneling coatings;
3439			
3440		<u>E)</u>	Paper, film, and foil coatings;
3441 3442		E)	I ithe graphic printing.
3442		<u>F)</u>	Lithographic printing;
3443		C)	Letterpress printing;
3445		<u>G</u>)	<u>Letterpress printing</u> ,
3446		<u>H)</u>	Flexible package printing;
3447		<u>11)</u>	<u>r lexible package printing,</u>
3448		Ŋ	Coil coating;
3449		±1	Con country
3450		<u>J)</u>	Fabric coating;
3451		<u>~7</u>	- weite contraction

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3452		<u>K)</u>	Rubber tire manufacturing.
3453 3454	<u>2)</u>	The re	equirements of Section 218.901(b) through (e) of this Subpart shall
3455			ply to the following:
3456		• >	
3457 3458		<u>A)</u>	Adhesives or adhesive primers being tested or evaluated in any research and development operation or quality assurance or
3459			analytical laboratory;
3460			<u>analyticar haboratory</u> ,
3461		<u>B)</u>	Adhesives or adhesive primers used in the assembly, repair, or
3462			manufacture of aerospace or undersea-based weapon systems;
3463			
3464 3465		<u>C)</u>	Adhesives or adhesive primers used in medical equipment
3465			manufacturing operations;
3467		<u>D)</u>	Cyanoacrylate adhesive application operations;
3468			<u> </u>
3469		<u>E)</u>	Aerosol adhesive and aerosol adhesive primer application
3470			operations;
3471			
3472 3473		<u>F)</u>	Operations using polyester bonding putties to assemble fiberglass parts at fiberglass boat manufacturing facilities and at other
3474			reinforced plastic composite manufacturing facilities;
3475			reministed plastic composite manufacturing facilities,
3476		<u>G</u>)	Operations using adhesives and adhesive primers that are supplied
3477			to the manufacturer in containers with a net volume of 0.47 liters
3478			(16 oz) or less, or a net weight of 0.45 kg (1 lb) or less.
3479			
3480 3481	-		eous industrial adhesive application operation at a source is or ect to one or more of the limitations in this Subpart, the
3482			s industrial adhesive application operation is always subject to the
3483			ovisions of this Subpart.
3484			
3485			operator of a source exempt from the emission limitations and
3486		-	ements of this Subpart because of the criteria in subsection (a) of
3487			subject to the recordkeeping and reporting requirements specified
3488 3489	<u>in Se</u>	cuon 218	3.904(a) of this Subpart.
3490	(Source: Ad	ded at 34	Ill. Reg, effective)
3491	(504100. 114		·
3492	Section 218.901 En	<u>nission</u> I	Limitations and Control Requirements
3493			

3494	<u>a)</u>	The owner or operator of a source subject to the requirements of this Subpart shall
3495		comply with the limitations in subsection (b), (c), or (d) of this Section, as well as
3496		with the limitations in subsections (e) and (f) of this Section. Notwithstanding
3497		this requirement, sources subject to Section 218.900(b)(2) shall comply with the
3498		limitations in subsection (f) of this Section only.
3499		
3500	<u>b)</u>	The owner or operator of adhesive application operations listed in this subsection
3501		(b) shall comply with the following VOM emission limitations. If an adhesive is
3502		used to bond dissimilar substrates together, the substrate category with the highest
3503		VOM emission limitation shall apply:
3504		
		<u>kg VOM/l</u> <u>lb VOM/gal</u>

•

			kg VOM/l adhesive or adhesive primer applied	lb VOM/gal adhesive or adhesive primer applied
<u>1)</u>	Gen	eral adhesive application operations	appned	appiled
	<u>A)</u>	Reinforced plastic composite	<u>0.200</u>	<u>(1.7)</u>
	<u>B)</u>	Flexible vinyl	<u>0.250</u>	(2.1)
	<u>C</u>)	Metal	<u>0.030</u>	(0.3)
	<u>D)</u>	Porous material (except wood)	<u>0.120</u>	(1.0)
	<u>E)</u>	Rubber	<u>0.250</u>	(2.1)
	<u>F)</u>	Wood	<u>0.030</u>	(0.3)
	<u>G)</u>	Other substrates	<u>0.250</u>	(2.1)
<u>2)</u>		Specialty adh	esive application	n operations
	<u>A)</u>	Ceramic tile installation	0.130	<u>(1.1)</u>
	<u>B)</u>	Contact adhesive	0.250	<u>(2.1)</u>
	<u>C)</u>	Cove base installation	0.150	<u>(1.3)</u>
	<u>D)</u>	Indoor floor covering installation	<u>0.150</u>	(1.3)
	<u>E)</u>	Outdoor floor covering installation	0.250	<u>(2.1)</u>

<u>F)</u>	Installation of perimeter bonded sheet flooring	<u>0.660</u>	<u>(5.5)</u>
<u>G</u>)	Metal to urethane/rubber molding or casting	<u>0.850</u>	<u>(7.1)</u>
<u>H)</u>	Motor vehicle adhesive	0.250	<u>(2.1)</u>
Ī	Motor vehicle weatherstrip adhesive	<u>0.750</u>	<u>(6.3)</u>
<u>J)</u>	Multipurpose construction	0.200	<u>(1.7)</u>
<u>K)</u>	<u>Plastic solvent welding</u> (acrylonitrile butadiene styrene (ABS) welding)	<u>0.400</u>	<u>(3.3)</u>
<u>L)</u>	Plastic solvent welding (except ABS welding)	<u>0.500</u>	<u>(4.2)</u>
<u>M)</u>	Sheet rubber lining installation	<u>0.850</u>	<u>(7.1)</u>
<u>N)</u>	Single-ply roof membrane installation/repair (except ethylene propylenediene monomer (EPDM) roof membrane)	<u>0.250</u>	<u>(2.1)</u>
<u>O)</u>	Structural glazing	0.100	<u>(0.8)</u>
<u>P)</u>	Thin metal laminate	<u>0.780</u>	<u>(6.5)</u>
<u>Q)</u>	<u>Tire repair</u>	<u>0.100</u>	<u>(0.8)</u>
<u>R)</u>	Waterproof resorcinol glue	<u>0.170</u>	<u>(1.4)</u>
Adh	esive primer application operations		
<u>A)</u>	Motor vehicle glass bonding primer	<u>0.900</u>	<u>(7.5)</u>
<u>B)</u>	<u>Plastic solvent welding adhesive</u> primer	<u>0.650</u>	<u>(5.4)</u>

<u>3)</u>

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				JCA	AR350218-100433	5r01
		<u>C)</u>	<u>Single-p</u> primer	ly roof membrane adhesive	<u>0.250</u>	<u>(2.1)</u>
		<u>D)</u>	Other ac	lhesive primer	0.250	(2.1)
3505						
3506	<u>c)</u>			of a source subject to this Sub		
3507				al adhesive application operat		
3508 3509				of subject adhesives as applied ce with subsection (c)(1) of the		
3510				limitation calculated in accord		
3511		of this Section		minitation calculated in accord	uance whit subsect	$\frac{1011(C)(2)}{1011(C)}$
3512		or this Bootie	<u>511.</u>			
3513		1) Weig	ted Ave	rage of VOM Content of Adhe	esives Applied Eac	h Dav
3514		<u> </u>				<u>/</u>
3515						
				$\sum_{n=1}^{n} M VOM$		
2516				$\sum_{i=1}^{M} W_i V O W_i$		
3516				$VOM_{WA} = \frac{1}{n}$		
				$VOM_{WA} = \frac{\sum_{i=1}^{n} M_i VOM_i}{\sum_{i=1}^{n} M_1}$		
3517						
3518		wher	e:			
3519						
		V	<u>DM_{wa} =</u>	The weighted average VOM VOM per volume in l (gal) o applied each day;		
		<u>i</u>	=	Subscript denoting a specific	adhesive as applie	ed;
		<u>n</u>	=	The number of different adhe each miscellaneous industria operation;		
		<u>M</u> j	=	The mass of each adhesive, a (lb/gal);	s applied, in units	<u>of kg/l</u>
2520		<u>V(</u>	<u>DM</u> _i <u>=</u>	The VOM content in units of 1 (gal) of each adhesive as ap		volume in
3520 3521 3522		<u>2) Mass</u>	Weighte	d Average VOM Limit for an	Averaging Operati	<u>on</u>

3523
$$Limit_{WA} = \frac{\sum_{i=1}^{n} M_i Limit_i}{\sum_{i=1}^{n} M_i}$$

3524 3525

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3527 3528

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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 = <u>Subscript denoting a specific adhesive as applied;</u> = The number of different adhesives as applied each day by <u>n</u> each miscellaneous industrial adhesive application operation; \underline{M}_i = The mass of each adhesive, as applied, in units of kg/l (lb/gal);Limit = 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. 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

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3546			adhesives and an afterburner or carbon adsorption system. The owner or
3547			operator may use an alternative capture and control system if the owner or
3548			operator submits a plan to the Agency detailing appropriate monitoring
3549			devices, test methods, recordkeeping requirements, and operating
3550			parameters for the capture and control system and the system is approved
3551			by the Agency and USEPA within federally enforceable permit conditions.
3552			
3553	<u>e)</u>	The ov	vner or operator of a source subject to this Subpart shall apply all
3554	<u></u>		laneous industrial adhesives using one or more of the following methods:
3555			
3556		<u>1)</u>	Electrostatic spray;
3557		<u>-</u> 7	
3558		<u>2)</u>	High volume low pressure (HVLP) spray;
3559		<u>=</u> 1	<u>Ingri volume to v pressure (II v Dr.) spruy.</u>
3560		<u>3)</u>	Flow coating. For the purposes of this Subpart, flow coating means a non-
3561		<u>51</u>	atomized technique of applying coating to a substrate with a fluid nozzle
3562			with no air supplied to the nozzle;
3563			whit no an supplied to the nozzle,
3564		<u>4)</u>	Roll coating or hand application, including non-spray application methods
3565		-17	similar to hand or mechanically powered caulking gun, brush, or direct
3566			hand application;
3567			nand approation,
3568		<u>5)</u>	Dip coating, including electrodeposition. For purposes of this Subpart,
3569		<u>5</u>]	"electrodeposition" means a water-borne dip coating process in which
3570			opposite electrical charges are applied to the substrate and the coating.
3571			The coating is attracted to the substrate due to the electrochemical
3572			potential difference that is created;
3572			potential difference mai is created,
3573		6)	Airloss arrow
3575		<u>6)</u>	Airless spray;
3576		7)	Air againted airloss arrows or
3577		<u>7)</u>	<u>Air-assisted airless spray; or</u>
		0)	Another adhesing anglighting mothed any ship of a history of the
3578		<u>8)</u>	Another adhesive application method capable of achieving a transfer
3579			efficiency equal to or better than that achieved by HVLP spraying, if the
3580			method is approved in writing by the Agency.
3581	0	T 1	
3582	<u>f)</u>		vner or operator of a source subject to this Subpart shall comply with the
3583			ing work practices for each subject miscellaneous adhesive application
3584		operati	on at the source:
3585		4.)	
3586		<u>1)</u>	Store all VOM-containing adhesives, adhesive primers, process-related
3587			waste materials, cleaning materials, and used shop towels in closed
3588			containers;

3589 3590 3591 3592 3593 3594		<u>2)</u>	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 those materials;
3595 3596 3597		<u>3)</u>	Minimize spills of VOM-containing adhesives, adhesive primers, process- related waste materials, and cleaning materials;
3598 3599 3600 3601		<u>4)</u>	Convey VOM-containing adhesives, adhesive primers, process-related waste materials, and cleaning materials from one location to another in closed containers or pipes; and
3602 3603 3604 3605		<u>5)</u>	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.
3606 3607 3608	(Sour	ce: Add	led at 34 Ill. Reg, effective)
3609 3610	Section 218.9	902 Tes	sting Requirements
3611 3612 3613 3614 3615 3616 3617	<u>a)</u>	<u>condu</u> or as o <u>expen</u> Ageno	ng to demonstrate compliance with the requirements of this Subpart shall be acted by the owner or operator within 90 days after a request by the Agency, otherwise provided in this Subpart. The testing shall be conducted at the se of the owner or operator and the owner or operator shall notify the cy in writing 30 days in advance of conducting the testing to allow the cy to be present during testing.
3617 3618 3619 3620	<u>b)</u>		ng to demonstrate compliance with the VOM content limitations in Section 01(b) of this Subpart shall be conducted as follows:
3620 3621 3622 3623		<u>1)</u>	Method 24, incorporated by reference in Section 218.112 of this Part, shall be used for non-reactive adhesives;
3623 3624 3625 3626		<u>2)</u>	Appendix A of 40 CFR 63, Subpart PPPP, incorporated by reference in Section 218.112 of this Part, shall be used for reactive adhesives;
3620 3627 3628 3629 3630 3631		<u>3)</u>	The manufacturer's specifications for VOM content for adhesives may be used if 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.

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3632	<u>c)</u>	For a	fterburr	ners and carbon adsorbers, the methods and procedures of Section
3633				hrough (f) of this Part shall be used for testing to demonstrate
3634				with the requirements of Section 218.901(d) of this Subpart, as
3635		follo		
3636				
3637		<u>1)</u>	To se	lect the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60,
3638		<u> </u>		ndix A, incorporated by reference in Section 218.112 of this Part;
3639				
3640		<u>2)</u>	To de	etermine the volumetric flow rate of the exhaust stream, Method 2,
3641		<u>-</u> 1		C, or 2D, as appropriate, 40 CFR 60, Appendix A, incorporated by
3642				ence in Section 218.112 of this Part;
3643			101010	shee in Section 218.112 of this I alt,
3644		<u>3)</u>	To de	etermine the VOM concentration of the exhaust stream entering and
3645		51		ig the emissions control system, Method 25 or 25A, as appropriate,
3646				<u>FR 60, Appendix A, incorporated by reference in Section 218.112 of</u>
3647				
3648				Part. For thermal and catalytic afterburners, Method 25 must be used,
3649				t under the following circumstances, in which case Method 25A be used:
3650			must	<u>be used:</u>
)) ()	
3651			<u>A)</u>	The allowable outlet concentration of VOM from the emissions
3652				control system is less than 50 ppmv, as carbon;
3653				
3654			<u>B)</u>	The VOM concentration at the inlet of the emissions control
3655				system and the required level of control result in exhaust
3656				concentrations of VOM of 50 ppmv, or less, as carbon;
3657				
3658			<u>C</u>)	Due to the high efficiency of the emissions control system, the
3659				anticipated VOM concentration at the emissions control system
3660				exhaust is 50 ppmv or less, as carbon, regardless of inlet
3661				concentration. If the source elects to use Method 25A under this
3662				option, the exhaust VOM concentration must be 50 ppmv or less,
3663				as carbon, and the required destruction efficiency must be met for
3664				the source to have demonstrated compliance. If the Method 25A
3665				test results show that the required destruction efficiency apparently
3666				has been met, but the exhaust concentration is above 50 ppmv, as
3667				carbon, a retest is required. The retest shall be conducted using
3668				either Method 25 or 25A. If the retest is conducted using Method
3669				25A and the test results again show that the required destruction
3670				efficiency apparently has been met, but the exhaust concentration
3671				is above 50 ppmv, as carbon, the source must retest using Method
3672				25;
3673				

3676 Image: the series of	3674 3675		D) During testing, the cleaning equipment shall be operated at representative operating conditions and flow rates.
3677 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 218.901(d) as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.901(d)(3). 3681 (Source: Added at 34 Ill. Reg, effective) 3682 (Source: Added at 34 Ill. Reg, effective) 3683 Section 218.903 Monitoring Requirements 3684 Section 218.903 Monitoring Requirements 3685 a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) of this Subpart shall: 3688 1) Install, calibrate, operate, and maintain temperature monitoring devices with an accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and 3694 2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder or computer, with at least the same accuracy as the temperature monitoring devices, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor. 3699 b) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate, and perate the monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to			representative operating conditions and new rates.
3678 or carbon adsorber shall conduct testing to demonstrate compliance with the 3679 requirements of Section 218.901(d) as set forth in the owner's or operator's plan 3680 approved by the Agency and USEPA pursuant to Section 218.901(d)(3). 3681 (Source: Added at 34 III. Reg, effective) 3683 Section 218.903 Monitoring Requirements 3684 Section 218.903 Monitoring Requirements 3685 a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) of this Subpart shall: 3688 a) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3°C or 5°F on the emissions control system in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and 3694 2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor. 3695 2) Install, calibrate, operate of on operator of a source subject to Section 218.901(d) (d). 3700 b) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner's or operator's plan approved by		(h	An owner or operator using an emissions control system other than an afterburner
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3683 Section 218.903 Monitoring Requirements 3684 Section 218.903 Monitoring Requirements 3685 a) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 218.901(d) of this Subpart shall: 3688 1) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of 3°C or 5°F on the emissions control system in accordance with Section 218.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and 3694 2) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor. 3699 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 218.901(d) of this Subpart shall install, maintain, calibrate, and operate the monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 218.901(d)(3). 3706 Source: Added at 34 Ill. Reg, effective) 3707 a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 1) By May 1,		(Sour	re: Added at 34 III Peg effective
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3701 used to demonstrate compliance, the owner or operator of a source subject to 3702 Section 218.901(d) of this Subpart shall install, maintain, calibrate, and operate 3703 the monitoring equipment as set forth in the owner's or operator's plan approved 3704 by the Agency and USEPA pursuant to Section 218.901(d)(3). 3705		b)	If an emissions control system other than an afterburner or carbon adapther is
3702 Section 218.901(d) of this Subpart shall install, maintain, calibrate, and operate 3703 the monitoring equipment as set forth in the owner's or operator's plan approved 3704 by the Agency and USEPA pursuant to Section 218.901(d)(3). 3705 (Source: Added at 34 III. Reg, effective) 3707 Section 218.904 Recordkeeping and Reporting Requirements 3709 a) The owner or operator of a source exempt from the limitations of this Subpart 3710 a) The owner or operator of a source exempt from the limitations of this Subpart 3711 because of the criteria in Section 218.900(a) of this Subpart shall comply with the 3713 following: 3714 1) By May 1, 2011, or upon initial start-up of the source, whichever is later, 3715 submit a certification to the Agency that includes:		<u>01</u>	
3703 the monitoring equipment as set forth in the owner's or operator's plan approved 3704 by the Agency and USEPA pursuant to Section 218.901(d)(3). 3705 3706 3707 Section 218.904 Recordkeeping and Reporting Requirements 3709 3709 3710 a) 3711 The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 1) By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:			
3704 by the Agency and USEPA pursuant to Section 218.901(d)(3). 3705 3706 3706 (Source: Added at 34 III. Reg, effective) 3707 3708 3709 Section 218.904 Recordkeeping and Reporting Requirements 3709 3710 a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 1) By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:			
 3705 3706 (Source: Added at 34 III. Reg, effective) 3707 3708 Section 218.904 Recordkeeping and Reporting Requirements 3709 3710 a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 3714 1) By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes: 			
 3706 (Source: Added at 34 Ill. Reg, effective) 3707 3708 Section 218.904 Recordkeeping and Reporting Requirements 3709 3710 a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 3714 By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes: 			by the right y and obbit repursuant to beetion 210.901(a).
 3707 3708 Section 218.904 Record keeping and Reporting Requirements 3709 3710 a) The owner or operator of a source exempt from the limitations of this Subpart because of the criteria in Section 218.900(a) of this Subpart shall comply with the following: 3713 3714		(Sour	ce: Added at 34 III Reg effective)
3708 3709Section 218.904 Record keeping and Reporting Requirements37093710371037113711371237123713371437151)By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:		(500	, onconvo
37093710a)The owner or operator of a source exempt from the limitations of this Subpart3711because of the criteria in Section 218.900(a) of this Subpart shall comply with the3712following:371337143715By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:		Section 218.9	904 Recordkeening and Reporting Requirements
3710a)The owner or operator of a source exempt from the limitations of this Subpart3711because of the criteria in Section 218.900(a) of this Subpart shall comply with the3712following:37131)By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:		<u></u>	the recording and reporting requirements
3711because of the criteria in Section 218.900(a) of this Subpart shall comply with the3712following:3713371437151)By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:		a)	The owner or operator of a source exempt from the limitations of this Subpart
3712following:3713371437151)By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:		<u></u>	
3713371437151)By May 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:			
37141)By May 1, 2011, or upon initial start-up of the source, whichever is later,3715submit a certification to the Agency that includes:			
3715 submit a certification to the Agency that includes:			1) By May 1, 2011, or upon initial start-up of the source, whichever is later
	3716		we control to the about fund interaction.

3717 3718 3719			<u>A)</u>	<u>A declaration that the source is exempt from the requirements of this Section because of the criteria in Section 218.900(a);</u>
3719 3720 3721 3722 3723 3724 3725 3726 3727 3728 3729 3730 3731			<u>B)</u>	Calculations 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;
3731 3732 3733 3734 3735 3736 3737 3738		<u>2)</u>	of VC the so kg/day withir	w the Agency of any record that shows that the combined emissions of from miscellaneous industrial adhesive application operations at surce, including related cleaning activities, ever equal or exceed 6.8 by (15 lbs/day), in the absence of air pollution control equipment, a 30 days after the event occurs, and provide copies of those records request by the Agency.
3739	<u>b)</u>	<u>All so</u>	ources su	ubject to the requirements of this Subpart shall:
3740 3741 3742 3743 3744		<u>1)</u>		ay 1, 2011, or upon initial start-up of the source, whichever is later, t a certification to the Agency that includes: <u>Identification of each subject adhesive application operation as of</u>
3745 3746				the date of certification;
3747 3748 3749			<u>B)</u>	A declaration that all subject adhesive application operations are in compliance with the requirements of this Subpart;
3750 3751 3752 3753 3754			<u>C)</u>	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);
3755 3756 3757 3758 3759			<u>D)</u>	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;

3760 3761			<u>E)</u>	<u>Identification of the methods that will be used to demonstrate</u> continuing compliance with the applicable limitations;	
3762					
3763			<u>F)</u>	A description of the practices and procedures that the source will	
3764				follow to ensure compliance with the limitations in Section	
3765 3766				<u>218.901(f) of this Subpart;</u>	
3767			<u>G</u>)	A description of each adhesive application operation exempt	
3768			0)	pursuant to Section 218.900(b)(2) of this Subpart, if any; and	
3769				pursuant to beetion 210.200(0)(2) of this bubpart, if any, and	
3770			<u>H)</u>	The application methods used by each subject adhesive application	
3771				operation;	
3772					
3773		<u>2)</u>		st 30 calendar days before changing the method of compliance in	
3774				dance with Section 218.901(b), (c), and (d), notify the Agency in	
3775				g of the change. The notification shall include a demonstration of	
3776			<u>comp</u>	liance with the newly applicable subsection;	
3777 3778		2)	Notif	the Agency in writing of any violation of the requirements of this	
3779		<u>3)</u>		y the Agency in writing of any violation of the requirements of this art within 30 days following the occurrence of the violation and	
3780				the records documenting the violation upon request by the Agency;	
3781			<u>pro 11</u>	to records documenting the violation upon request by the regency,	
3782		<u>4)</u>	Retair	all records required by this Section for at least three years and	
3783		<u> </u>	-	those records available to the Agency upon request.	
3784					
3785	<u>c)</u>	The c	wner or	operator of an adhesive application operation subject to the	
3786		<u>limita</u>	limitations of Section 218.901 of this Subpart and complying by means of Section		
3787		<u>218.9</u>	01(b) sł	nall comply with the following:	
3788					
3789		<u>1)</u>		ay 1, 2011, or upon the initial start-up date, whichever is later,	
3790				it a certification to the Agency that includes the name, identification	
3791			-	er, and VOM content of each adhesive as applied by each subject	
3792 3793			adnes	ive application operation;	
3793		<u>2)</u>	Colle	ct and record the name, identification number, and VOM content of	
3794		<u>2)</u>	-	adhesive as applied each day by each adhesive application operation	
3796				lying with Section 218.901(b).	
3797			<u>comp</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	
3798	<u>d)</u>	The	owner o	r operator of an adhesive application operation subject to the	
3799	<u> </u>			f Section 218.901 of this Subpart and complying by means of	
3800				901(c) shall comply with the following:	
3801				-	

	<u>1)</u>	<u>By M</u>	ay 1, 2011, or upon initial start-up, whichever is later, submit a
		<u>certif</u>	ication to the Agency that includes the name, identification number,
		and V	OM content of each adhesive as applied by each subject adhesive
		applic	cation operation;
	2)	Colle	ct and record the following information each day for each adhesive
			cation operation complying by means of Section 218.901(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
		<u>D</u>]	applied by each subject adhesive application operation.
			appried by each subject adhesive appreation operation.
e)	The	wner or	operator of an adhesive application operation subject to the
<u>o</u> 7			of Section 218.901 of this Subpart and complying by means of
	been	011 210.2	vor(d) shan.
	1)	$\mathbf{P} \mathbf{v} \mathbf{M}$	ay 1, 2011, or upon the initial start-up date, whichever is later, and
	1)		initial start-up of a new control device, submit a certification to the
		Agen	cy that includes the following:
		A \	
		<u>A)</u>	The type of afterburner or other approved control device used to
			comply with the requirements of Section 218.901(d);
		D)	
		<u>B)</u>	The results of all tests and calculations necessary to demonstrate
			compliance with the control requirements of Section 218.901(d);
			and
		~	
		<u>C)</u>	A declaration that the monitoring equipment required under
			Section 218.903 of this Subpart has been properly installed and
			calibrated according to manufacturer's specifications;
	<u>2)</u>		n 90 days after conducting testing pursuant to Section 218.902 of
		<u>this S</u>	ubpart, submit to the Agency a copy of all test results, as well as a
		<u>certifi</u>	cation that includes the following:
		<u>A)</u>	A declaration that all tests and calculations necessary to
			demonstrate whether the adhesive application operations are in
			compliance with Section 218.901(d) have been properly
			performed;
	<u>c)</u>	requi	certifi and V applic2)Colle applic2)Colle applicA)B)e)The owner or requirements Section 218.91)By M upon Agend1)By M upon AgendA)B)C)C)2)Withi this S certificities

3845 3846 3847		<u>B)</u>	<u>A statement whether the adhesive application operations are or are not in compliance with Section 218.901(d); and</u>
3847 3848 3849 3850		<u>C)</u>	The operating parameters of the afterburner or other approved control device during testing, as monitored in accordance with Section 218.903 of this Subpart;
3851	2)	0.11	8
3852 3853	<u>3)</u>		t and record daily the following information for each adhesive ation operation subject to the requirements of Section 218.901(d):
3854		<u>app110</u>	anon operation subject to the requirements of beetion 216.901(d).
3855		<u>A)</u>	Afterburner or other approved control device monitoring data in
3856			accordance with Section 218.903 of this Subpart;
3857			
3858		<u>B)</u>	A log of operating time for the afterburner or other approved
3859			control device, monitoring equipment, and the associated
3860			application unit; and
3861			
3862		<u>C)</u>	A maintenance log for the afterburner or other approved control
3863			device and monitoring equipment detailing all routine and non-
3864			routine maintenance performed, including dates and duration of
3865			any outages.
3866			
3867	(Source: Add	ed at 34	Ill. Reg, effective)