

ILLINOIS POLLUTION CONTROL BOARD  
December 18, 1997

IN THE MATTER OF: )  
 )  
WOOD FURNITURE COATING: ) R97-31  
AMENDMENTS TO 35 ILL. ADM. CODE ) (Rulemaking - Air)  
211, 218, AND 219, SUBPART F )

Proposed Rule. Second Notice.

OPINION AND ORDER OF THE BOARD (by R.C. Flemal):

This matter comes before the Board upon a proposal for rulemaking filed by the Illinois Environmental Protection Agency (Agency). The Agency proposes that the Board amend its ozone air quality control regulations in response to the issuance by the United States Environmental Protection Agency (USEPA) of a Control Technique Guideline (CTG) governing wood furniture coating operations. The principal proposed amendments consist of (a) changes in the values and units of measurements for volatile organic material (VOM) content of top coats and sealers, and (b) establishment of new work practice standards. Most of the Board's existing regulations governing wood furniture coatings operations would not be affected by adoption of the instant proposal.

The Board's responsibility in this matter arises from the Environmental Protection Act (Act) (415 ILCS 5/1 *et seq.* (1996)). The Board is charged therein to "determine, define and implement the environmental control standards applicable in the State of Illinois" (415 ILCS 5/5(b)). More generally, the Board's rulemaking charge is based on the system of checks and balances integral to Illinois environmental governance: the Board bears responsibility for the rulemaking and principal adjudicatory functions; the Agency has primary responsibility for administration of the Act and the Board's regulations, including the regulations it today proposes for amendment.

By today's action the Board adopts the proposed amendments for second notice, pursuant to the Illinois Administrative Procedure Act (5 ILCS 100/1-1 *et seq.* (1996)). The matter will now be forwarded to the Joint Committee of Administrative Rules (JCAR) for its consideration.

REGULATORY BACKGROUND

The State of Illinois has two areas that are out of compliance with ozone air quality standards as defined in the Federal Clean Air Act (CAA)(42 USC §§ 7401 to 7642). The two areas are the Chicago Area, which includes all of Cook, DuPage, Kane, Lake, McHenry, and Will Counties and parts of Grundy and Kendall Counties,

and the Metro East Area, which is comprised of Madison, Monroe, and St. Clair Counties.

For each of the non-attainment areas the CAA requires that the State implement regulations for the control of ozone precursors, including VOM, and that the State submit the regulations for USEPA approval as part of a State Implementation Plan (SIP). The Board has adopted various regulations in conformity with these requirements. The regulations for the Chicago Area occur at 35 Ill. Adm. Code 218. The regulations applicable to the Metro East Area occur at 35 Ill. Adm. Code 219.<sup>1</sup> Related general provisions, which consist primarily of definitions, occur at 35 Ill. Adm. Code 211.

A major part of the Board's ozone control regulations consists of reasonably available control technology (RACT) provisions. The principal underlying these provisions is that stationary emission sources that have the potential to emit more than threshold amounts of VOM are required to utilize reasonably available control technologies as a method of limiting emissions. Definitions of RACT for various industrial process and activities are set forth initially in CAA-required and USEPA-produced documents known as CTGs. The various states are required to adopt the RACT regulations specified in the CTGs, with only very limited opportunity for departure.

Today's proposal is driven by the release by USEPA in May 1996 of a new CTG governing VOM emissions from wood furniture coating operations. The CTG was produced as the result of a regulatory negotiation ("reg-neg") under the Federal Advisory Committee Act. The negotiations included members from industry, environmental groups, and state and local agencies. Statement of Reasons at 3.

Although the Board already has in place regulations pertaining to VOM emissions for wood furniture coating operations, the new CTG contains certain new and different provisions that need to be incorporated into the Board's existing regulations and into the Illinois SIP. Today's action is to that end.

### PROCEDURAL HISTORY

The Agency filed the proposal in this matter with the Board on June 3, 1997. On June 10, 1997, the Agency filed an errata sheet, the principal item of which was a request to delete from the caption of the initial filing the reference to "15% ROP Plan." The Board granted that request, as well as a motion regarding filing requirements, by order of June 19, 1997.

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<sup>1</sup> Regulations applicable in the attainment areas of the State occur at 35 Ill. Adm. Code 215.

Hearings in this matter were held before Hearing Officer Audrey Lozuk-Lawless in Edwardsville on August 5, 1997, and in Chicago on August 13, 1997. The Agency presented an explanation of the purpose and proposed language of the amendments. No other testimony was offered or received. Members of the public attended both hearings and asked questions of the Agency on the record.

By order of September 18, 1997, the Board adopted the Agency's proposal for first notice. First notice publication occurred in the Illinois Register, Vol. 21, Issue 41, October 10, 1997 at p. 13486 *et seq.* and 13505 *et seq.*

On November 17, 1997, the Agency filed first notice comments, docketed as PC 2. The Agency continues to urge that the Board adopt the proposed amendments and reiterates the justification for adoption as presented in the original petition and at hearing. The Agency notes several recommended formatting changes; these are incorporated into today's proposed language. The Agency further remarks that Section 219.182 should not be included as part of this proposal. The Board included Section 219.182 on its own motion to correct a typographical mistake in an earlier rulemaking.

### OVERVIEW

Today's proposed amendments would institute only a limited number of changes to the Board's existing regulations governing wood furniture coating operations. The principal proposed changes are:

- 1) Modification of the value and method of measure of the maximum VOM content allowed in top coatings and sealer coatings. See proposed amendments at 35 Ill. Adm. Code 218.204(l) and 219.204(l). No changes are proposed for any other categories of wood furniture coatings, including opaque stain, non-topcoat pigmented coat, repair coat, semi-transparent stain, and wash coat.<sup>2</sup>
- 2) Allowance that if a facility is unable to use a particular compliant coating, compliance may nevertheless be achieved through use of averaging (See proposed 35 Ill. Adm. 218.215 and 219.215) or add-on controls (See proposed 35 Ill. Adm. Code 218.216 and 219.216).

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<sup>2</sup> The Board notes that in today's proposal the existing VOM limitations for these various coatings are deleted and then repropoed with the same values. See proposed 35 Ill. Adm. Code 218.204(l) and 219.204(l). This device is used solely to allow the part of the regulations dealing with wood furniture coating operations to be reorganized into a logical format.

- 3) Establishment of several work practice standards, including cleaning standards and prohibition of the use of conventional air spray guns. See proposed 35 Ill. Adm. Code 218.217 and 219.217. These practices are designed to reduce the amount of coating, cleaning, and washoff solvent usage, and thereby also reduced the potential for VOM emissions. The practices are those proposed by the CTG negotiation group and incorporated by the USEPA into the CTG.

Today's proposal would change the units of measurement for compliant top coat and sealer coats from the current pounds of VOM per gallon (lb VOM/gallon) to pounds of VOM per pound of solids (lb VOM/lb solids), as required pursuant to the CTG. The Agency believes, however, that this change will have little effect on the compliant status of currently used coatings. Exh. 1 at 3.

The proposed effective date of the amendments is March 15, 1998. This date was chosen by the Agency so as to have the regulations in place, with lead time, for the 1998 ozone season. Tr1. at 12.

Among the significant items not proposed for amendment is the applicability level of the regulations. These will remain at the current value of a potential to emit of 25 tons per year of VOM.

In addition to these three proposed amendments, today's proposal also adds three new definitions necessary to support the remainder of the amendments (see proposed 35 Ill. Adm. Code 211.1467, 211.1520, and 211.7200) and a variety of clarifying and conforming amendments.

The Board today, on its own motion, also makes non-substantive corrections to subpart E, Section 219.182.

### ECONOMIC REASONABLENESS

The Agency estimates that 27 facilities, all located in the Chicago non-attainment area, would be subject to the proposed regulations. Statement of Reasons at 2. The Agency concludes as well, however, that most, if not all, of the 27 facilities are already in compliance with the proposed amendments.<sup>3</sup> Statement of Reasons at 3. The Agency believes that compliant coatings are readily available. Exh. 1 at 6. Agency records further indicate that existing facilities either already use these compliant coatings, or have existing permit conditions that limit emission to below the 25 ton per year applicability level. Statement of Reasons at 5. The Agency thus

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<sup>3</sup> For this reason, the Agency expects that no significant emission reductions would result from implementing the proposed amendments. Statement of Reasons at 5.

concludes that there will be very little cost impact to the facilities. Statement of Reasons at 6.

The provisions that allow those facilities which might not be able to use a particular compliant coating to achieve compliance through use of averaging or add-on control devices provides extra flexibility to wood furniture coaters. They thus appear to have some potential benefit without having a cost.

The purpose of the work practice standards is to reduce VOM emissions by reducing use of solvents. However, the USEPA admits that “there is not enough data available to quantify either the reduction in emission or costs associated with most of these [work practice] standards.” CTG at 6-10.

### CONCLUSION

The Board finds that, based on the record developed in this matter, adoption of the proposed amendments for the purposes of second notice is warranted.

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

PART 211  
DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section	
211.101	Incorporations by Reference
211.102	Abbreviations and Conversion Factors

SUBPART B: DEFINITIONS

Section	
211.121	Other Definitions
211.122	Definitions (Repealed)
211.130	Accelacota
211.150	Accumulator
211.170	Acid Gases
211.210	Actual Heat Input
211.230	Adhesive
211.240	Adhesion Promoter
211.250	Aeration
211.270	Aerosol Can Filling Line

211.290	Afterburner
211.310	Air Contaminant
211.330	Air Dried Coatings
211.350	Air Oxidation Process
211.370	Air Pollutant
211.390	Air Pollution
211.410	Air Pollution Control Equipment
211.430	Air Suspension Coater/Dryer
211.450	Airless Spray
211.470	Air Assisted Airless Spray
211.474	Alcohol
211.484	Animal
211.485	Animal Pathological Waste
211.490	Annual Grain Through-Put
211.495	Anti-Glare/Safety Coating
211.510	Application Area
211.530	Architectural Coating
211.550	As Applied
211.560	As-Applied Fountain Solution
211.570	Asphalt
211.590	Asphalt Prime Coat
211.610	Automobile
211.630	Automobile or Light-Duty Truck Assembly Source or Automobile or Light-Duty Truck Manufacturing Plant
211.650	Automobile or Light-Duty Truck Refinishing
211.660	Automotive/Transportation Plastic Parts
211.670	Baked Coatings
211.680	Bakery Oven
211.685	Basecoat/Clearcoat System
211.690	Batch Loading
211.695	Batch Operation
211.696	Batch Process Train
211.710	Bead-Dipping
211.730	Binders
211.750	British Thermal Unit
211.770	Brush or Wipe Coating
211.790	Bulk Gasoline Plant
211.810	Bulk Gasoline Terminal
211.820	Business Machine Plastic Parts
211.830	Can
211.850	Can Coating
211.870	Can Coating Line
211.890	Capture
211.910	Capture Device
211.930	Capture Efficiency

211.950	Capture System
211.970	Certified Investigation
211.980	Chemical Manufacturing Process Unit
211.990	Choke Loading
211.1010	Clean Air Act
211.1050	Cleaning and Separating Operation
211.1070	Cleaning Materials
211.1090	Clear Coating
211.1110	Clear Topcoat
211.1130	Closed Purge System
211.1150	Closed Vent System
211.1170	Coal Refuse
211.1190	Coating
211.1210	Coating Applicator
211.1230	Coating Line
211.1250	Coating Plant
211.1270	Coil Coating
211.1290	Coil Coating Line
211.1310	Cold Cleaning
211.1330	Complete Combustion
211.1350	Component
211.1370	Concrete Curing Compounds
211.1390	Concentrated Nitric Acid Manufacturing Process
211.1410	Condensate
211.1430	Condensible PM-10
211.1465	Continuous Automatic Stoking
<u>211.1467</u>	<u>Continuous Coater</u>
211.1470	Continuous Process
211.1490	Control Device
211.1510	Control Device Efficiency
<u>211.1520</u>	<u>Conventional Air Spray</u>
211.1530	Conventional Soybean Crushing Source
211.1550	Conveyorized Degreasing
211.1570	Crude Oil
211.1590	Crude Oil Gathering
211.1610	Crushing
211.1630	Custody Transfer
211.1650	Cutback Asphalt
211.1670	Daily-Weighted Average VOM Content
211.1690	Day
211.1710	Degreaser
211.1730	Delivery Vessel
211.1750	Dip Coating
211.1770	Distillate Fuel Oil
211.1780	Distillation Unit

211.1790	Drum
211.1810	Dry Cleaning Operation or Dry Cleaning Facility
211.1830	Dump-Pit Area
211.1850	Effective Grate Area
211.1870	Effluent Water Separator
211.1875	Elastomeric Materials
211.1880	Electromagnetic Interference/Radio Frequency (EMI/RFI) Shielding Coatings
211.1885	Electronic Component
211.1890	Electrostatic Bell or Disc Spray
211.1900	Electrostatic Prep Coat
211.1910	Electrostatic Spray
211.1920	Emergency or Standby Unit
211.1930	Emission Rate
211.1950	Emission Unit
211.1970	Enamel
211.1990	Enclose
211.2010	End Sealing Compound Coat
211.2030	Enhanced Under-the-Cup Fill
211.2050	Ethanol Blend Gasoline
211.2070	Excess Air
211.2090	Excessive Release
211.2110	Existing Grain-Drying Operation (Repealed)
211.2130	Existing Grain-Handling Operation (Repealed)
211.2150	Exterior Base Coat
211.2170	Exterior End Coat
211.2190	External Floating Roof
211.2210	Extreme Performance Coating
211.2230	Fabric Coating
211.2250	Fabric Coating Line
211.2270	Federally Enforceable Limitations and Conditions
211.2285	Feed Mill
211.2290	Fermentation Time
211.2300	Fill
211.2310	Final Repair Coat
211.2330	Firebox
211.2350	Fixed-Roof Tank
211.2360	Flexible Coating
211.2365	Flexible Operating Unit
211.2370	Flexographic Printing
211.2390	Flexographic Printing Line
211.2410	Floating Roof
211.2430	Fountain Solution
211.2450	Freeboard Height
211.2470	Fuel Combustion Emission Unit or Fuel Combustion Emission Source



211.2490	Fugitive Particulate Matter
211.2510	Full Operating Flowrate
211.2530	Gas Service
211.2550	Gas/Gas Method
211.2570	Gasoline
211.2590	Gasoline Dispensing Operation or Gasoline Dispensing Facility
211.2610	Gel Coat
211.2630	Gloss Reducers
211.2650	Grain
211.2670	Grain-Drying Operation
211.2690	Grain-Handling and Conditioning Operation
211.2710	Grain-Handling Operation
211.2730	Green-Tire Spraying
211.2750	Green Tires
211.2770	Gross Heating Value
211.2790	Gross Vehicle Weight Rating
211.2810	Heated Airless Spray
211.2830	Heatset
211.2850	Heatset Web Offset Lithographic Printing Line
211.2870	Heavy Liquid
211.2890	Heavy Metals
211.2910	Heavy Off-Highway Vehicle Products
211.2930	Heavy Off-Highway Vehicle Products Coating
211.2950	Heavy Off-Highway Vehicle Products Coating Line
211.2970	High Temperature Aluminum Coating
211.2990	High Volume Low Pressure (HVL) Spray
211.3010	Hood
211.3030	Hot Well
211.3050	Housekeeping Practices
211.3070	Incinerator
211.3090	Indirect Heat Transfer
211.3110	Ink
211.3130	In-Process Tank
211.3150	In-Situ Sampling Systems
211.3170	Interior Body Spray Coat
211.3190	Internal-Floating Roof
211.3210	Internal Transferring Area
211.3230	Lacquers
211.3250	Large Appliance
211.3270	Large Appliance Coating
211.3290	Large Appliance Coating Line
211.3310	Light Liquid
211.3330	Light-Duty Truck
211.3350	Light Oil
211.3370	Liquid/Gas Method

211.3390	Liquid-Mounted Seal
211.3410	Liquid Service
211.3430	Liquids Dripping
211.3450	Lithographic Printing Line
211.3470	Load-Out Area
211.3480	Loading Event
211.3490	Low Solvent Coating
211.3500	Lubricating Oil
211.3510	Magnet Wire
211.3530	Magnet Wire Coating
211.3550	Magnet Wire Coating Line
211.3570	Major Dump Pit
211.3590	Major Metropolitan Area (MMA)
211.3610	Major Population Area (MPA)
211.3620	Manually Operated Equipment
211.3630	Manufacturing Process
211.3650	Marine Terminal
211.3660	Marine Vessel
211.3670	Material Recovery Section
211.3690	Maximum Theoretical Emissions
211.3695	Maximum True Vapor Pressure
211.3710	Metal Furniture
211.3730	Metal Furniture Coating
211.3750	Metal Furniture Coating Line
211.3770	Metallic Shoe-Type Seal
211.3790	Miscellaneous Fabricated Product Manufacturing Process
211.3810	Miscellaneous Formulation Manufacturing Process
211.3830	Miscellaneous Metal Parts and Products
211.3850	Miscellaneous Metal Parts and Products Coating
211.3870	Miscellaneous Metal Parts or Products Coating Line
211.3890	Miscellaneous Organic Chemical Manufacturing Process
211.3910	Mixing Operation
211.3915	Mobile Equipment
211.3930	Monitor
211.3950	Monomer
211.3960	Motor Vehicles
211.3965	Motor Vehicle Refinishing
211.3970	Multiple Package Coating
211.3990	New Grain-Drying Operation (Repealed)
211.4010	New Grain-Handling Operation (Repealed)
211.4030	No Detectable Volatile Organic Material Emissions
211.4050	Non-Contact Process Water Cooling Tower
211.4055	Non-Flexible Coating
211.4065	Non-Heatset
211.4070	Offset

211.4090	One Hundred Percent Acid
211.4110	One-Turn Storage Space
211.4130	Opacity
211.4150	Opaque Stains
211.4170	Open Top Vapor Degreasing
211.4190	Open-Ended Valve
211.4210	Operator of a Gasoline Dispensing Operation or Operator of a Gasoline Dispensing Facility
211.4230	Organic Compound
211.4250	Organic Material and Organic Materials
211.4260	Organic Solvent
211.4270	Organic Vapor
211.4290	Oven
211.4310	Overall Control
211.4330	Overvarnish
211.4350	Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing Facility
211.4370	Owner or Operator
211.4390	Packaging Rotogravure Printing
211.4410	Packaging Rotogravure Printing Line
211.4430	Pail
211.4450	Paint Manufacturing Source or Paint Manufacturing Plant
211.4470	Paper Coating
211.4490	Paper Coating Line
211.4510	Particulate Matter
211.4530	Parts Per Million (Volume) or PPM (Vol)
211.4550	Person
211.4590	Petroleum
211.4610	Petroleum Liquid
211.4630	Petroleum Refinery
211.4650	Pharmaceutical
211.4670	Pharmaceutical Coating Operation
211.4690	Photochemically Reactive Material
211.4710	Pigmented Coatings
211.4730	Plant
211.4740	Plastic Part
211.4750	Plasticizers
211.4770	PM-10
211.4790	Pneumatic Rubber Tire Manufacture
211.4810	Polybasic Organic Acid Partial Oxidation Manufacturing Process
211.4830	Polyester Resin Material(s)
211.4850	Polyester Resin Products Manufacturing Process
211.4870	Polystyrene Plant
211.4890	Polystyrene Resin
211.4910	Portable Grain-Handling Equipment

211.4930	Portland Cement Manufacturing Process Emission Source
211.4950	Portland Cement Process or Portland Cement Manufacturing Plant
211.4970	Potential to Emit
211.4990	Power Driven Fastener Coating
211.5010	Precoat
211.5030	Pressure Release
211.5050	Pressure Tank
211.5060	Pressure/Vacuum Relief Valve
211.5061	Pretreatment Wash Primer
211.5065	Primary Product
211.5070	Prime Coat
211.5080	Primer Sealer
211.5090	Primer Surfacer Coat
211.5110	Primer Surfacer Operation
211.5130	Primers
211.5150	Printing
211.5170	Printing Line
211.5185	Process Emission Source
211.5190	Process Emission Unit
211.5210	Process Unit
211.5230	Process Unit Shutdown
211.5245	Process Vent
211.5250	Process Weight Rate
211.5270	Production Equipment Exhaust System
211.5310	Publication Rotogravure Printing Line
211.5330	Purged Process Fluid
211.5340	Rated Heat Input Capacity
211.5350	Reactor
211.5370	Reasonably Available Control Technology (RACT)
211.5390	Reclamation System
211.5410	Refiner
211.5430	Refinery Fuel Gas
211.5450	Refinery Fuel Gas System
211.5470	Refinery Unit or Refinery Process Unit
211.5480	Reflective Argent Coating
211.5490	Refrigerated Condenser
211.5500	Regulated Air Pollutant
211.5510	Reid Vapor Pressure
211.5530	Repair
211.5550	Repair Coat
211.5570	Repaired
211.5590	Residual Fuel Oil
211.5600	Resist Coat
211.5610	Restricted Area
211.5630	Retail Outlet

211.5650	Ringelmann Chart
211.5670	Roadway
211.5690	Roll Coater
211.5710	Roll Coating
211.5730	Roll Printer
211.5750	Roll Printing
211.5770	Rotogravure Printing
211.5790	Rotogravure Printing Line
211.5810	Safety Relief Valve
211.5830	Sandblasting
211.5850	Sanding Sealers
211.5870	Screening
211.5890	Sealer
211.5910	Semi-Transparent Stains
211.5930	Sensor
211.5950	Set of Safety Relief Valves
211.5970	Sheet Basecoat
211.5980	Sheet-Fed
211.5990	Shotblasting
211.6010	Side-Seam Spray Coat
211.6025	Single Unit Operation
211.6030	Smoke
211.6050	Smokeless Flare
211.6060	Soft Coat
211.6070	Solvent
211.6090	Solvent Cleaning
211.6110	Solvent Recovery System
211.6130	Source
211.6140	Specialty Coatings
211.6145	Specialty Coatings for Motor Vehicles
211.6150	Specialty High Gloss Catalyzed Coating
211.6170	Specialty Leather
211.6190	Specialty Soybean Crushing Source
211.6210	Splash Loading
211.6230	Stack
211.6250	Stain Coating
211.6270	Standard Conditions
211.6290	Standard Cubic Foot (scf)
211.6310	Start-Up
211.6330	Stationary Emission Source
211.6350	Stationary Emission Unit
211.6355	Stationary Gas Turbine
211.6360	Stationary Reciprocating Internal Combustion Engine
211.6370	Stationary Source
211.6390	Stationary Storage Tank

211.6400	Stencil Coat
211.6410	Storage Tank or Storage Vessel
<u>211.6420</u>	<u>Strippable Spray Booth Coating</u>
211.6430	Styrene Devolatilizer Unit
211.6450	Styrene Recovery Unit
211.6470	Submerged Loading Pipe
211.6490	Substrate
211.6510	Sulfuric Acid Mist
211.6530	Surface Condenser
211.6540	Surface Preparation Materials
211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant
211.6570	Tablet Coating Operation
211.6580	Texture Coat
211.6590	Thirty-Day Rolling Average
211.6610	Three-Piece Can
211.6620	Three or Four Stage Coating System
211.6630	Through-the-Valve Fill
211.6650	Tooling Resin
211.6670	Topcoat
211.6690	Topcoat Operation
211.6695	Topcoat System
211.6710	Touch-Up
211.6720	Touch-Up Coating
211.6730	Transfer Efficiency
211.6750	Tread End Cementing
211.6770	True Vapor Pressure
211.6790	Turnaround
211.6810	Two-Piece Can
211.6830	Under-the-Cup Fill
211.6850	Undertread Cementing
211.6860	Uniform Finish Blender
211.6870	Unregulated Safety Relief Valve
211.6880	Vacuum Metallizing
211.6890	Vacuum Producing System
211.6910	Vacuum Service
211.6930	Valves Not Externally Regulated
211.6950	Vapor Balance System
211.6970	Vapor Collection System
211.6990	Vapor Control System
211.7010	Vapor-Mounted Primary Seal
211.7030	Vapor Recovery System
211.7050	Vapor-Suppressed Polyester Resin
211.7070	Vinyl Coating
211.7090	Vinyl Coating Line
211.7110	Volatile Organic Liquid (VOL)

211.7130	Volatile Organic Material Content (VOMC)
211.7150	Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
211.7170	Volatile Petroleum Liquid
211.7190	Wash Coat
<u>211.7200</u>	<u>Washoff Operations</u>
211.7210	Wastewater (Oil/Water) Separator
211.7230	Weak Nitric Acid Manufacturing Process
211.7250	Web
211.7270	Wholesale Purchase - Consumer
211.7290	Wood Furniture
211.7310	Wood Furniture Coating
211.7330	Wood Furniture Coating Line
211.7350	Woodworking
211.7400	Yeast Percentage

Section 211.APPENDIX A: Rule into Section Table

Section 211.APPENDIX B: Section into Rule Table

AUTHORITY: Implementing Sections 9, 9.1 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 10, 27 and 28.5].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1, 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16929, effective November 15, 1994;

amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995; amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill. Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695, effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997; amended in R97-31 at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

BOARD NOTE: This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

## SUBPART B: DEFINITIONS

### Section 211.1467 Continuous Coater

“Continuous coater” means a finishing system that continuously applies coating onto wood furniture parts moving along a conveyor system. Coatings that are not transferred to the part are recycled in the finishing system reservoir.

(Source: Added at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### Section 211.1520 Conventional Air Spray

“Conventional air spray” means a spray coating method in which the coating is atomized by mixing it with compressed air at an air pressure greater than 10 pounds per square inch (gauge) at the point of atomization. Airless, air assisted airless and electrostatic spray technologies are not conventional air spray.

(Source: Added at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### Section 211.6420 Strippable Spray Booth Coating

“Strippable spray booth coating” means a coating that is applied to a spray booth wall to provide a protective film to receive overspray during finishing operations and that is subsequently peeled off and disposed of.

(Source: Added at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### Section 211.7200 Washoff Operations

“Washoff operations” means those operations in which organic solvent is used to remove coating from a substrate.



(Source: Added at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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

PART 218  
 ORGANIC MATERIAL EMISSION STANDARDS AND  
 LIMITATIONS FOR THE CHICAGO AREA

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Section 218.Appendix B:	VOM Measurement Techniques for Capture Efficiency
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Section 218.Appendix E:	List of Affected Marine Terminals
Section 218.Appendix G:	TRE Index Measurements for SOCOMI Reactors and Distillation Units
Section 218.Appendix H:	Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

**AUTHORITY:** Implementing Section 10 and authorized by Section 28.5 of the Environmental Protection Act [415 ILCS 5/10 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 14973, effective September 21, 1994; amended in R94-12 at 18 Ill. Reg. at 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 \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

BOARD NOTE: This Part implements the Environmental Protection Act as of July 1, 1994.

## SUBPART F: COATING OPERATIONS

### Section 218.204 Emission Limitations

Except as provided in Sections 218.205, 218.207, 218.208, ~~and 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 provided in Section 218.204(l), compliance ~~Compliance~~ with the emission limitations marked with an asterisk in this Section is required on and after March 15, 1996, and compliance. ~~Compliance~~ with emission limitations not marked with an asterisk is required until March 15, 1996. The following emission limitations are expressed in units of VOM per volume of coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied at each coating applicator, except where noted. Compounds which are specifically exempted from the definition of VOM should be treated as water for the purpose of calculating the "less water" part of the coating composition. Compliance with this Subpart must be demonstrated through the applicable coating analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(c) of this Subpart except where noted. (Note: The equation presented in Section 218.206 of this Part shall be used to calculate emission limitations for determining compliance by add-on controls, credits for transfer efficiency, emissions trades and cross-line averaging.) The emission limitations are as follows:

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

(Note: The primer surface coat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire primer surfacer operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 218.105(b) and the recordkeeping and reporting

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

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

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

		kg/l	lb/gal
4)	Final repair coat	0.58	(4.8)
		0.58*	(4.8)*
b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish		
	A) Sheet basecoat	0.34	(2.8)
		0.26*	(2.2)*
	B) Overvarnish	0.34	(2.8)
		0.34	(2.8)*
2)	Exterior basecoat and overvarnish	0.34	(2.8)
		0.25*	(2.1)*
3)	Interior body spray coat		

	A) Two piece	0.51 0.44*	(4.2) (3.7)*
	B) Three piece	0.51 0.51*	(4.2) (4.2)*
	4) Exterior end coat	0.51 0.51*	(4.2) (4.2)*
	5) Side seam spray coat	0.66 0.66*	(5.5) (5.5)*
	6) End sealing compound coat	0.44 0.44*	(3.7) (3.7)*
c)	Paper Coating	kg/l 0.35 0.28*	lb/gal (2.9) (2.3)*

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which printing is performed if the paper coating line complies with the emissions limitations in Subpart H: Printing and Publishing, Section 218.401 of this Part.)

d)	Coil Coating	kg/l 0.31 0.20*	lb/gal (2.6) (1.7)*
e)	Fabric Coating (2.9)	0.35  0.28*	  (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)*
h)	Large Appliance Coating		

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

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

		kg/l	lb/gal
i)	Magnet Wire Coating	0.20	(1.7)
		0.20*	(1.7)*
j)	Miscellaneous Metal Parts and Products Coating		
1)	Clear coating	0.52	(4.3)
		0.52*	(4.3)*
2)	Extreme performance coating		
	A) Air dried	0.42	(3.5)
		0.42*	(3.5)*
	B) Baked	0.42	(3.5)
		0.40*	(3.3)*
3)	Steel pail and drum interior coating	0.52	(4.3)
		0.52*	(4.3)*
4)	All other coatings		
	A) Air Dried	0.42	(3.5)
		0.40*	(3.3)*
	B) Baked	0.36	(3.0)
		0.34*	(2.8)*
5)	Marine engine coating		
	A) Air Dried	0.42	(3.5)
		0.42*	(3.5)*

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

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

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
1)	Extreme performance prime coat	0.42 0.42*	(3.5) (3.5)*
2)	Extreme performance topcoat (air dried)	0.42 0.42*	(3.5) (3.5)*
3)	Final repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above.		
l)	Wood Furniture Coating	kg/l	lb/gal
1)	<del>Clear topcoat</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
2)	<del>Opaque stain</del>	<del>0.56</del> 0.56*	<del>(4.7)</del> (4.7)*
3)	<del>Pigmented coat</del>	<del>0.60</del> 0.60*	<del>(5.0)</del> (5.0)*
4)	<del>Repair coat</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
5)	<del>Sealer</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
6)	<del>Semi-transparent stain</del> (6.6)		0.79
		0.79*	(6.6)*
7)	<del>Wash coat</del>	<del>0.73</del> 0.73*	<del>(6.1)</del> (6.1)*

1) Limitations before March 15, 1998:

	<u>kg/l</u>	<u>lb/gal</u>
A) <u>Clear topcoat</u>	<u>0.67</u>	<u>(5.6)</u>
B) <u>Opaque stain</u>	<u>0.56</u>	<u>(4.7)</u>
C) <u>Pigmented coat</u>	<u>0.60</u>	<u>(5.0)</u>
D) <u>Repair coat</u>	<u>0.67</u>	<u>(5.6)</u>
E) <u>Sealer</u>	<u>0.67</u>	<u>(5.6)</u>
F) <u>Semi-transparent stain</u> <u>(6.6)</u>		<u>0.79</u>
G) <u>Wash coat</u>	<u>0.73</u>	<u>(6.1)</u>

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

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

	<u>kg VOM/kg solids</u>	<u>lb VOM/lb solids</u>
A) <u>Topcoat</u>	<u>0.8</u>	<u>(0.8)</u>
B) <u>Sealers and topcoats with the following limits:</u>		
i) <u>Non-acid-cured alkyd amino vinyl sealer</u>	<u>1.9</u>	<u>(1.9)</u>



ii) Non-acid-cured alkyd amino conversion varnish  
1.8 (1.8)

iii) Acid-cured alkyd amino vinyl sealer  
2.3 (2.3)

iv) Acid-cured alkyd amino conversion varnish  
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) Use a combination of the methods specified in subsections (l)(2)(A) through (D) of this Section.

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

	<u>kg/l</u>	<u>lb/gal</u>
A) <u>Opaque stain</u>	<u>0.56</u>	<u>(4.7)</u>
B) <u>Non-topcoat pigmented coat</u>	<u>0.60</u>	<u>(5.0)</u>
C) <u>Repair coat</u>	<u>0.67</u>	<u>(5.6)</u>
D) <u>Semi-transparent stain</u>	<u>0.79</u>	<u>(6.6)</u>
E) <u>Wash coat</u>	<u>0.73</u>	<u>(6.1)</u>

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

A) No source subject to the limitations of subsection (l)(2) or (3) of this Section and utilizing one or more wood furniture coating spray booths shall use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.

B) Any source subject to the limitations of subsection (l)(2)

or (3) of this Section shall comply with the requirements of Section 218.217 of this Subpart.

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:

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

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

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

m) Existing Diesel-Electric Locomotive Coating Lines in Cook County

		kg/l	lb/gal
1)	Extreme performance prime coat	0.42 0.42*	(3.5) (3.5)*
2)	Extreme performance top-coat (air dried) (3.5)*	0.42	(3.5) 0.42*
3)	Final repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
4)	High-temperature aluminum coating	0.72 0.72*	(6.0) (6.0)*
5)	All other coatings	0.36 0.36*	(3.0) (3.0)*

## n) Plastic Parts Coating: Automotive/Transportation

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

	basecoats, texture basecoats		
B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings	0.71*	(5.9)*
C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats	0.77*	(6.4)*
D)	Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings	0.82*	(6.8)*
E)	Head lamp lens coatings	0.89*	(7.4)*
o) Plastic Parts Coating: Business Machine			
		kg/l	lb/gal
1)	Primer	0.14*	(1.2)*
2)	Color coat (non-texture coat)	0.28*	(2.3)*
3)	Color coat (texture coat)	0.28*	(2.3)*
4)	Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings	0.48*	(4.0)*
5)	Specialty Coatings		
A)	Soft coat	0.52*	(4.3)*
B)	Plating resist	0.71*	(5.9)*

C)	Plating sensitizer	0.85*	(7.1)*
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(Source: Amended at \_\_\_\_\_ 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) of this Section (depending upon the category of coating) through the applicable coating analysis test methods and procedures specified in Section 218.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 218.211(d) of this Subpart:

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

Section 218.204(b) of this Subpart shall operate the subject coating line using a coating with a VOM content in excess of the limitations specified in Section 218.204(b) of this Subpart unless all of the following requirements are met:

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

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

where:

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

$i$  = Subscript denoting a specific coating applied;

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

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

$C_i$  = The VOM content of each coating as applied in units of kg VOM/l (lbs VOM/gal) of coating (minus water and any compounds which are specifically exempted from the definition of VOM).

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

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

where:

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

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

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



category of coating used, or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(m) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
- g) No owner or operator of a plastic parts coating line, subject to the limitations of Section 218.204(n) or (o) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(n) or (o) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l ({3.5 lbs/gal})), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or
  - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(n) or (o) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
- h) No owner or operator of a metal furniture coating line, subject to the limitations of Section 218.204(g) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (h)(1) or (h)(2) of this Section are met:
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(g) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l ({2.8 lbs/gal})), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used; or

- 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(g) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
- i) No owner or operator of a large appliance coating line, subject to the limitations of Section 218.204(h) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (i)(1) or (i)(2) of this Section are met:
    - 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 218.204(h) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (~~±~~2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
    - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 218.204(h) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.

(Source: Amended at \_\_\_\_\_ 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) below:

- a) No owner or operator of a coating line which 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. ~~Wood furniture coating lines are not~~

~~subject to 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.

(Source: Amended at \_\_\_\_\_ 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 is exempted from the limitations of Section 218.204 of this ~~Subpart~~ Part because of Section 218.208(a) or (b) of this ~~Subpart~~ Part shall comply with the following:
- 1) For sources exempt under Section 218.208(a) of this Subpart, by ~~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) ~~218.108(a)~~ of this ~~Subpart~~ Part. 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~~ Part because of Section 218.208(a) of this ~~Subpart~~ Part; and
    - B) Calculations which 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 which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal); and
- $B_i$  = Volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day shall be described in the certification to the Agency.

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

- A) A declaration that the source is exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart; and
- B) Calculations which demonstrate that the source meets the criteria for exemption because of Section 218.208(b) of this Subpart.

3)2) For sources exempt under Section 218.208(a) of this Subpart, on and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in this subsection shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:

- A) The name and identification number of each coating as applied on each coating line; and
- B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are

specifically exempted from the definition of VOM) as applied each day on each coating line.

- 4) For sources exempt under Section 218.208(b) of this Subpart, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) shall collect and record all of the following information for each coating line and maintain the information at the source for a period of three years:
- A) The name and identification number of each coating as applied on each coating line; and
  - B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.
- 5) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 218.204 of this ~~SubpartPart~~ because of Section 218.208(a) of this ~~SubpartPart~~ shall notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before the application of capture systems and control devices by sending a copy of such record to the Agency within 30 days after the exceedance occurs.
- 6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 218.204(l) of this Subpart because of Section 218.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 218.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.
- c) Any owner or operator of a coating line subject to the limitations of Section 218.204 of this ~~SubpartPart~~ other than Section 218.204(a)(2) or (a)(3) of this Subpart and complying by means of Section 218.204 of this ~~SubpartPart~~ shall comply with the following:
- 1) By the 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, ~~or~~Section 218.207, Section 218.215, or Section

218.216 of this ~~Subpart~~Part to Section 218.204 of this ~~Subpart~~Part; 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~~Part on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such certification shall include:

- A) The name and identification number of each coating as applied on each coating line-;
  - B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line-; and
  - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 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.
- 2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
- A) The name and identification number of each coating as applied on each coating line-;
  - B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line-;
  - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 218.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line and certified product data sheets for each coating; and
  - D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitations of Section 218.204(l)(4)(A) of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified

product data sheets for each coating.

- 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 SubpartPart shall be reported by sending a copy of such record to the Agency within 30 days following the ~~occurrence~~occurrence of the violation.
  - B) At least 30 calendar days before changing the method of compliance from Section 218.204 of this SubpartPart to Section 218.205 or Section 218.207 of this SubpartPart, 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 SubpartPart to Section 218.205 of this SubpartPart or Section 218.207 of this SubpartPart, 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 SubpartPart and complying by means of Section 218.205 of this SubpartPart 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 SubpartPart to Section 218.205 of this SubpartPart; 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 SubpartPart on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such certification shall include:
    - A) The name and identification number of each coating line which will comply by means of Section 218.205 of this SubpartPart.
    - 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.
  - ED) 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.
  - FE) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) of this Section.
  - GF) 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.
  - DC) 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 SubpartPart shall be reported by sending a copy of such record to the Agency within 30 days following the ~~occurrence~~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 SubpartPart to Section 218.204 or Section 218.207 of this SubpartPart, 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 SubpartPart, 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 SubpartPart and complying by means of Section 218.207(c), (d), (e), (f), (g) or (h) of this SubpartPart 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 SubpartPart 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 SubpartPart.

- 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 ~~SubpartPart~~ 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 ~~SubpartPart~~ to Section 218.204 or Section 218.205 of this ~~SubpartPart~~, the owner or operator shall comply with all requirements of subsection (c)(1) or (d)(1) of this Section, respectively. Upon changing the method of compliance with this subpart from Section 218.207 of this ~~SubpartPart~~ to Section 218.204 or Section 218.205 of this ~~SubpartPart~~, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.
- f) Any owner or operator of a primer surfacer operation or topcoat operation subject to the limitations of Section 218.204(a)(2) or (a)(3) of this ~~SubpartPart~~ 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 ~~SubpartPart~~ on and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date. Such certification shall include:
    - A) The name and identification number of each coating

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

- B) The name and identification number of each coating as applied on each coating line in the coating operation.
  - C) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
  - D) The transfer efficiency and control efficiency measured for each coating line.
  - E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.
  - F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
  - G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2) below.
  - H) An example format for presenting the records required in subsection (f)(2) below.
- 2) On and after a date consistent with Section 218.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each operation and maintain the information at the source for a period of three years:
- A) All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 218.204(a)(2) or (a)(3) of this ~~Subpart~~Part 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 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)(2) or (a)(3) of this ~~Subpart~~ Part within 10 days from the end of the month and maintain this information at the source for a period of three years.
- 4) On and after a date consistent with Section 218.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:
- A) Any record showing a violation of Section 218.204(a)(2) or (a)(3) of this ~~Subpart~~ Part 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.

(Source: Amended at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.215 Wood Furniture Coating Averaging Approach

- a) On and after March 15, 1998, any owner or operator of a source subject to the limitations of Section 218.204(l) of this Subpart may elect to comply with the requirements of this Section rather than complying with the applicable emission limitations set forth in Section 218.204(l)(2)(A) or (B) of this Subpart. The source must continue to comply with the limitations set forth in Sections 218.204(l)(3) and (4) of this Subpart. 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 a source subject to the limitations of Section 218.204(l) of this Subpart and electing to rely on this Section to demonstrate compliance with this Subpart must establish, by use of subsection (b)(1) or (b)(2) of this Section, that, on a daily basis, actual emissions from the affected source are less than or equal to ninety percent of the allowable emissions, that is  $V_a \leq V_p$ :

1) Option I:

$$\underline{\text{A)}} \quad \underline{V_a = \sum_{i=1}^n (ER_{TC_i} \times TC_i); \text{ and}}$$

$$\underline{\text{B)}} \quad \underline{V_p = 0.9 \times \sum_{i=1}^n (0.8 \times TC_i)}$$

2) Option II:

$$\underline{\text{A)}} \quad \underline{V_a = \sum_{i=1}^n [ (ER_{TC_i} \times TC_i) + (ER_{SE_i} \times SE_i) + (ER_{WC_i} \times WC_i) + (ER_{PC_i} \times PC_i) + (ER_{ST_i} \times ST_i) ]; \text{ and}}$$

$$\underline{\text{B)}} \quad \underline{V_p = 0.9 \times \sum_{i=1}^n [ (1.8 \times TC_i) + (1.9 \times SE_i) + (9.0 \times WC_i) + (1.2 \times PC_i) + (0.791 \times ST_i) ]}$$

where:

$V_a$  = Actual VOM emissions from the source;

$V_p =$  90% of the allowable VOM emissions from the source;

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

$i =$  Subscript denoting an individual coating;

$TC_i =$  kilograms of solids in topcoat “i” used;

$SE_i =$  kilograms of solids in sealer “i” used;

$WC_i =$  kilograms of solids in wash coat “i” used;

$PC_i =$  kilograms of solids in non-topcoat pigmented coat “i” used;

$ST_i =$  liters of stain “i” used;

$ER_{TC_i} =$  VOM content of topcoat “i” in kg VOM/kg solids, as applied;

$ER_{SE_i} =$  VOM content of sealer “i” in kg VOM/kg solids, as applied;

$ER_{WC_i} =$  VOM content of washcoat “i” in kg VOM/kg solids, as applied;

$ER_{PC_i} =$  VOM content of non-topcoat pigmented coat “i” in kg VOM/kg solids, as applied;

$ER_{ST_i} =$  VOM content of stain “i” in kg VOM/liter (kg/l), as applied;

c) Within the structure of the source’s federally enforceable permit conditions, an owner or operator of a source electing to rely on this Section to demonstrate compliance with this Subpart shall provide to the Agency:

1) The name and identification number of each participating coating line;

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

3) A summary of how averaging will be used to meet the emission

limitations;

- 4) Documentation that  $V_a \leq V_p$ , as calculated in subsection (b)(1) or (2) of this Section;
  - 5) A description of which types of coating materials will be included in the source's averaging program, which may include stains, basecoats, washcoats, sealers, and topcoats. Coating materials that are applied using continuous coaters may be used in an averaging program only if the source can determine the amount of coating used each day;
  - 6) A description of methods and procedures for quantifying emissions on a daily basis, including methods to determine the VOM content of each coating and the daily usage of each coating; and
  - 7) A summary of the monitoring, recordkeeping, and reporting procedures that will be used to demonstrate daily compliance with the inequalities in subsections (b)(1) and (2) of this Section. These procedures shall be structured such that the Agency and the owner or operator of the source can determine the source's compliance status for any given day.
- d) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for a period of three years:
- 1) The name and identification number of each coating as applied on the coating line;
  - 2) The weight of VOM per weight of solids (kg VOM/kg solids) and the weight of solids (kg) of each coating as applied on each coating line on a daily basis;
  - 3) Certified product data sheets for each coating; and
  - 4) The calculations showing the source has met the conditions of the inequalities in subsection (b)(1) or (2) of this Section.
- e) On and after March 15, 1998, or on and after the initial start-up date,



the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall:

- 1) Notify the Agency within 30 calendar days following an occurrence of a violation of this Section; and
  - 2) Send to the Agency any record showing a violation of this Section within 30 calendar days following the occurrence of a violation.
- f) At least 30 calendar days before changing the method of compliance with this Subpart from reliance on this Section to reliance on Section 218.204(l)(2)(A) or (B) of this Subpart, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines shall:
- 1) Comply with all requirements of Section 218.211(c)(1) of this Subpart; and
  - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Added at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.216 Wood Furniture Coating Add-On Control Use

The owner or operator of a source subject to the requirements of Section 218.204(l)(2) of this Subpart may choose to comply with those limitations by relying on Section 218.204(l)(2)(D) of this Subpart if all of the following requirements are met:

- a) For each coating applied, determine the overall control efficiency needed to demonstrate compliance using the following equation:

$$R = \left[ \frac{(C - L)}{C} \right] \times 100$$

where:

R = the necessary overall capture and control efficiency of the control system, as a percentage;

C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;

L = the emission limitation for that coating, as given in Section 218.204(l)(2)(B) of this Subpart.

- b) Calculate the equivalent overall capture and control efficiency of the control device using the procedures of Sections 218.105(c), (d), and (e) of this Part.
- c) Demonstrate that the equivalent overall capture and control efficiency calculated using the procedures in Section 218.105(c), (d), and (e) of this Part is equal to or greater than the largest value of R calculated for each coating by the equation in subsection (a) of this Section.
- d) Install, calibrate, operate, and maintain the applicable monitoring equipment for the control device as specified in Section 218.105(d) of this Part.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for a period of three years:
  - 1) The name and identification number of each coating as applied on the coating line;
  - 2) The weight of VOM per weight of solids (kg VOM/kg solids) of each coating as applied on each coating line on a daily basis;
  - 3) Certified product data sheets for each coating;
  - 4) Control device monitoring data;
  - 5) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line; and
  - 6) 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.
- f) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall:

- 1) Notify the Agency within 30 calendar days following an occurrence of a violation of this Section; and
  - 2) Send to the Agency any record showing a violation of this Section within 30 calendar days following the occurrence of a violation.
- g) At least 30 calendar days before changing the method of compliance with this Subpart from reliance on this Section to reliance on Section 218.204(l)(2)(A) or (B) of this Subpart, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines shall:
- 1) Comply with all requirements of Section 218.211(c)(1) of this Subpart; and
  - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Added at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.217 Wood Furniture Coating Work Practice Standards

- a) Spray booth cleaning. Each owner or operator of a source subject to the limitations of Section 218.204(l) of this Subpart shall not use compounds containing more than 8.0 percent, by weight, of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, that is, the spray booth coating or other material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic solvent to prepare the booth prior to applying the booth coating.
- b) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 218.204(l) of this Subpart shall:
  - 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
  - 2) Pump or drain all organic solvent used for line cleaning into closed containers;
  - 3) Collect all organic solvent used to clean spray guns in closed

containers; and

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

c) Application equipment requirements. No owner or operator of a source subject to the limitations of Section 218.204(l) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (c)(1) through (4) of this Section:

1) To apply coating materials that have a VOM content no greater than 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids), as applied;

2) For repair coating under the following circumstances:

A) The coating materials are applied after the completion of the coating operation; or

B) The coating materials are applied after the stain and before any other type of coating material is applied, and the coating materials are applied from a container that has a volume of no more than 2.0 gallons;

3) If the spray gun is aimed and triggered automatically, rather than manually; or

4) If emissions from the finishing application station are directed to a control device pursuant to Section 218.216 of this Subpart.

(Source: Added at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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

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

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## 219.991 Subject Emission Units

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

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

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

BOARD NOTE: This Part implements the Illinois Environmental Protection Act as of July 1, 1994.

## SUBPART E: SOLVENT CLEANING

## Section 219.182 Cold Cleaning

- a) Operating Procedures: No person shall operate a cold cleaning degreaser unless:
  - 1) Waste solvent is stored in covered containers only and not

disposed of in such a manner that more than 20% of the waste solvent (by weight) is allowed to evaporate into the atmosphere;

- 2) The cover of the degreaser is closed when parts are not being handled; and
  - 3) Parts are drained until dripping ceases.
- b) Equipment Requirements: No person shall operate a cold cleaning degreaser unless:
- 1) The degreaser is equipped with a cover which is closed whenever parts are not being handled in the cleaner. The cover shall be designed to be easily operated with one hand or with the mechanical assistance of springs, counter-weights or a powered system if:
    - A) The solvent vapor pressure is greater than 2 kPa (15 mmHg or 0.3 psi) measured at 38° C (100° F);
    - B) The solvent is agitated; or
    - C) The solvent is heated above ambient room temperature.
  - 2) The degreaser is equipped with a device for draining cleaned parts. The drainage device shall be constructed so that parts are enclosed under the cover while draining unless:
    - A) The solvent vapor pressure is less than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38° C (100° F); or
    - B) An internal drainage device cannot be fitted into the cleaning system, in which case the drainage device may be external.
  - 3) The degreaser is equipped with one of the following control devices if the vapor pressure of the solvent is greater than 4.3 kPa (32 mmHg or 0.6 psi) measured at 38° C (100° F) or if the solvent is heated above 50° C (120° F) or its boiling point:
    - A) A freeboard height of 7/10 of the inside width of the tank or 91 cm (36 in), whichever is less; or
    - B) Any other equipment or system of equivalent emission

control as approved by the Agency and further processed consistent with Section 219.108 of this Part. Such a system may include a water cover, refrigerated chiller or carbon adsorber.

- 4) A permanent conspicuous label summarizing the operating procedure is affixed to the degreaser; and
  - 5) If a solvent spray is used, the degreaser is equipped with a solid fluid stream spray, rather than a fine, atomized or shower spray.
- c) Material Requirements:
- 1) On and after March 15, 1999, no person shall:
    - A) Cause or allow the sale of solvent with a vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at 20° C (68° F) in units greater than five (5) gallons, for use in cold cleaning degreasing operations located in the area covered by Section 2189.103 of this Part.
    - B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 2.0 mmHg (0.038 psi) measured at 20° C (68° F).
  - 2) On and after March 15, 2001, no person shall:
    - A) Cause or allow the sale of solvent with a vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20° C (68° F) in units greater than five (5) gallons, for use in cold cleaning degreasing operations located in the area covered by Section 2189.103 of this Part.
    - B) Operate a cold cleaning degreaser with a solvent vapor pressure which exceeds 1.0 mmHg (0.019 psi) measured at 20° C (68° F).
- d) Recordkeeping Requirements: On and after March 15, 1999:
- 1) All persons subject to the requirements of subsections(c)(1)(A) and (c)(2)(A) of this Section must maintain records which include for each sale:
    - A) The name and address of the solvent purchaser;

- B) The date of sale;
  - C) The type of solvent;
  - D) The unit volume of solvent;
  - E) The total volume of solvent; and
  - F) The vapor pressure of the solvent measured in mmHg at 20° C (68° F).
- 2) All persons subject to the requirements of subsections (c)(1)(B) and (c)(2)(B) of this Section must maintain records which include for each purchase:
- A) The name and address of the solvent supplier;
  - B) The date of purchase;
  - C) The type of solvent; and
  - D) The vapor pressure of the solvent measured in mmHg at 20° C (68° F).
- e) All records required by subsection (d) of this Section shall be retained for three years and shall be made available to the Agency upon request.
- f) The cleaning of electronic components as defined in 35 Ill. Adm. Code Section 211.1885 is exempt from the requirements of subsection (c) of this Section.
- g) Any cold cleaning taking place in a Detrex cold batch degreaser Model #2D-CC-SPL Size 24-4-10, or substantial equivalent, including automated loading of parts, totally enclosed operation (excluding loading and unloading) and permitted by the Agency, is exempt from the requirements of subsection (c) of this Section.

(Source: Amended at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### SUBPART F: COATING OPERATIONS

##### Section 219.204 Emission Limitations

Except as provided in Sections 219.205, 219.207, 219.208, ~~and~~ 219.212, 219.215 and

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

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

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

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

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

		kg/l	lb/gal
4)	Final repair coat	0.58	(4.8)
		0.58*	(4.8)*
b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish		
	A) Sheet basecoat	0.34	(2.8)
		0.26*	(2.2)*
	B) Overvarnish	0.34	(2.8)
		0.34	(2.8)*
2)	Exterior basecoat and overvarnish	0.34	(2.8)
		0.25*	(2.1)*
3)	Interior body spray coat		
	A) Two piece	0.51	(4.2)
		0.44*	(3.7)*
	B) Three piece	0.51	(4.2)
		0.51*	(4.2)*
4)	Exterior end coat	0.51	(4.2)
		0.51*	(4.2)*

5)	Side seam spray coat	0.66 0.66*	(5.5) (5.5)*
6)	End sealing compound coat	0.44 0.44*	(3.7) (3.7)*
c)	Paper Coating	kg/l 0.35 0.28*	lb/gal (2.9) (2.3)*

(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which printing is performed if the paper coating line complies with the emissions limitations in Subpart H: Printing and Publishing, Section 219.401 of this Part.)

d)	Coil Coating	kg/l 0.31 0.20*	lb/gal (2.6) (1.7)*
e)	Fabric Coating (2.9)	0.35 0.28*	(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)*
h)	Large Appliance Coating		
1)	Air dried	0.34 0.34*	(2.8) (2.8)*
2)	Baked	0.34 0.28*	(2.8) (2.3)*

(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 l (1 quart) in any one

rolling eight-hour period.)

		kg/l	lb/gal
i)	Magnet Wire Coating	0.20 0.20*	(1.7) (1.7)*
j)	Miscellaneous Metal Parts and Products Coating		
1)	Clear coating	0.52 0.52*	(4.3) (4.3)*
2)	Extreme performance coating		
A)	Air dried	0.42 0.42*	(3.5) (3.5)*
B)	Baked	0.42 0.40*	(3.5) (3.3)*
3)	Steel pail and drum interior coating	0.52 0.52*	(4.3) (4.3)*
4)	All other coatings		
A)	Air Dried	0.42 0.40*	(3.5) (3.3)*
B)	Baked	0.36 0.34*	(3.0) (2.8)*
5)	Metallic coating		
A)	Air Dried	0.42 0.42*	(3.5) (3.5)*
B)	Baked	0.36 0.36*	(3.0) (3.0)*
6)	For purposes of subsection 219.204(j)(5) of this Section, "metallic coating" means a coating which contains more than 1/4 lb/gal of metal particles, as applied.		
		kg/l	lb/gal

k) Heavy Off-Highway Vehicle Products Coating			
1)	Extreme performance prime coat	0.42 0.42*	(3.5) (3.5)*
2)	Extreme performance top-coat (air dried)	0.42 0.42*	(3.5) (3.5)*
3)	Final repair coat (air dried)	0.42 0.42*	(3.5) (3.5)*
4)	All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above.		
		kg/l	lb/gal
l) Wood Furniture Coating			
1)	<del>Clear topcoat</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
2)	<del>Opaque stain</del>	<del>0.56</del> 0.56*	<del>(4.7)</del> (4.7)*
3)	<del>Pigmented coat</del>	<del>0.60</del> 0.60*	<del>(5.0)</del> (5.0)*
4)	<del>Repair coat</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
5)	<del>Sealer</del>	<del>0.67</del> 0.67*	<del>(5.6)</del> (5.6)*
6)	<del>Semi-transparent stain</del> (6.6)		0.79
		0.79*	(6.6)*
7)	<del>Wash coat</del>	<del>0.73</del> 0.73*	<del>(6.1)</del> (6.1)*
1)	<u>Limitations before March 15, 1998:</u>		
		<u>kg/l</u>	<u>lb/gal</u>

<u>A)</u>	<u>Clear topcoat</u>	<u>0.67</u>	<u>(5.6)</u>
<u>B)</u>	<u>Opaque stain</u>	<u>0.56</u>	<u>(4.7)</u>
<u>C)</u>	<u>Pigmented coat</u>	<u>0.60</u>	<u>(5.0)</u>
<u>D)</u>	<u>Repair coat</u>	<u>0.67</u>	<u>(5.6)</u>
<u>E)</u>	<u>Sealer</u>	<u>0.67</u>	<u>(5.6)</u>
<u>F)</u>	<u>Semi-transparent stain</u> <u>(6.6)</u>		<u>0.79</u>
<u>G)</u>	<u>Wash coat</u>	<u>0.73</u>	<u>(6.1)</u>

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

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

	<u>kg VOM/kg</u> <u>solids</u>	<u>lb VOM/lb</u> <u>solids</u>
<u>A) Topcoat</u>	<u>0.8</u>	<u>(0.8)</u>
<u>B) Sealers and topcoats with the following limits:</u>		
<u>i) Non-acid cured alkyd amino vinyl sealer</u>	<u>1.9</u>	<u>(1.9)</u>
<u>ii) Non-acid cured alkyd amino conversion varnish</u>	<u>1.8</u>	<u>(1.8)</u>

iii) Acid-cured alkyd amino vinyl sealer  
2.3 (2.3)

iv) Acid-cured alkyd amino conversion varnish  
2.0 (2.0)

C) Meet the provisions of Section 219.215 of this Subpart for use of an averaging approach;

D) Achieve a reduction in emissions equivalent to the requirements of Section 219.204(l)(2)(A) or (B) of this Subpart, as calculated using Section 219.216 of this Subpart; or

E) Use a combination of the methods specified in Section 219.204(l)(2)(A) through (D) of this Subpart.

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

	<u>kg/l</u>	<u>lb/gal</u>
A) <u>Opaque stain</u>	<u>0.56</u>	<u>(4.7)</u>
B) <u>Non-topcoat pigmented coat</u>	<u>0.60</u>	<u>(5.0)</u>
C) <u>Repair coat</u>	<u>0.67</u>	<u>(5.6)</u>
D) <u>Semi-transparent stain</u> <u>(6.6)</u>		<u>0.79</u>
E) <u>Wash coat</u>	<u>0.73</u>	<u>(6.1)</u>

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

A) No source subject to the limitations of subsection (l)(2) or (3) of this Section and utilizing one or more wood furniture coating spray booths shall use strippable spray booth coatings containing more than 0.8 kg VOM/kg solids (0.8 lb VOM/lb solids), as applied.

B) Any source subject to the limitations of subsection (l)(2) or (3) of this Section shall comply with the requirements of Section 219.217 of this Subpart.

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:

- i) Monitor the viscosity of the coating in the reservoir with a viscosity meter or by testing the viscosity of the initial coating and retesting the coating in the reservoir each time solvent is added;
- ii) Collect and record the reservoir viscosity and the amount and weight of VOM per weight of solids of coating and solvent each time coating or solvent is added; and
- iii) Maintain these records at the source for a period of three years.

m) Plastic Parts Coating: Automotive/Transportation

		kg/l	lb/gal
1)	Interiors		
	A) Baked		
	i) Color coat	0.49*	(4.1)*
	ii) Primer	0.46*	(3.8)*
	B) Air Dried		
	i) Color coat	0.38*	(3.2)*
	ii) Primer	0.42*	(3.5)*
2)	Exteriors (flexible and non-flexible)		
	A) Baked		
	i) Primer	0.60*	(5.0)*

	ii)	Primer non-flexible	0.54*	(4.5)*
	iii)	Clear coat	0.52*	(4.3)*
	iv)	Color coat	0.55*	(4.6)*
B)		Air Dried		
	i)	Primer	0.66*	(5.5)*
	ii)	Clear coat	0.54*	(4.5)*
	iii)	Color coat (red & black)	0.67*	(5.6)*
	iv)	Color coat (others)	0.61*	(5.1)*
3)		Specialty		
A)		Vacuum metallizing basecoats, texture basecoats	0.66*	(5.5)*
B)		Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings	0.71*	(5.9)*
C)		Gloss reducers, vacuum metallizing topcoats, and texture topcoats	0.77*	(6.4)*
D)		Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings	0.82*	(6.8)*
E)		Head lamp lens	0.89*	(7.4)*



## coatings

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

(Source: Amended at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### Section 219.205 Daily-Weighted Average Limitations

No owner or operator of a coating line subject to the limitations of Section 219.204 of this Subpart and complying by means of this Section shall operate the subject coating line unless the owner or operator has demonstrated compliance with subsection (a), (b), (c), (d), (e), (f), (g), or (h) of this Section (depending upon the category of coating) through the applicable coating analysis test methods and procedures specified in Section 219.105(a) of this Part and the recordkeeping and reporting requirements specified in Section 219.211(d) of this Subpart:

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

Subpart shall apply coatings to miscellaneous metal parts or products on the subject coating line unless the requirements in subsection (b)(1) or (b)(2) of this Section are met.

- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(j) of this Subpart during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(j) of this Subpart, during the same day, the owner or operator shall have a site-specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- c) No owner or operator of a can coating line subject to the limitations of Section 219.204(b) of this Subpart shall operate the subject coating line using a coating with a VOM content in excess of the limitations specified in Section 219.204(b) of this Subpart unless all of the following requirements are met:
- 1) An alternative daily emission limitation for the can coating operation, i.e. for all of the can coating lines at the source, shall be determined according to subsection (c)(2) of this Section. Actual daily emissions shall never exceed the alternative daily emission limitation and shall be calculated by use of the following equation.

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

where:

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

$i$  = Subscript denoting a specific coating applied;

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

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

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

where:

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

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

- d) No owner or operator of a heavy off-highway vehicle products coating line subject to the limitations of Section 219.204(k) of this Subpart shall apply coatings to heavy off-highway vehicle products on the subject coating line unless the requirements of subsection (d)(1) or (d)(2) of this Section are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(k) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(k) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.
- e) No owner or operator of a wood furniture coating line subject to the limitations of Section 219.204(l)(1) or (l)(3) of this Subpart shall apply coatings to wood furniture on the subject coating line unless the requirements of subsection (e)(1) or (e)(2) of this Section, in addition to the requirements specified in the note to Section 219.204(l)(1) of this Subpart, are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(l)(1) or (l)(3) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.67 kg/l (5.6 lbs/gal), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 2) For each coating line which applies coatings subject to more than

one numerical emission limitation in Section 219.204(l)(1) or (l)(3) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and approved by the USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) 51 Fed. Reg. 43814 (December 4, 1986), must be satisfied.

- f) No owner or operator of a plastic parts coating line subject to the limitations of Section 219.204(m) or (n) of this Subpart shall apply coatings to business machine or automotive/transportation plastic parts on the subject coating line unless the requirements of subsection (f)(1) or (f)(2) of this Section are met.
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(m) or (n) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.42 kg/l (3.5 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 2) For each coating line which applies coatings subject to more than one numerical emission limitation in Section 219.204(m) or (n) of this Subpart, during the same day, the owner or operator shall have a site specific proposal approved by the Agency and USEPA as a SIP revision. To receive approval, the requirements of USEPA's Emissions Trading Policy Statement (and related policy) must be satisfied.
- g) No owner or operator of a metal furniture coating line subject to the limitations of Section 219.204(g) of this Subpart shall apply coatings on the subject coating line unless the requirements of subsection (g)(1) or (g)(2) of this Section are met:
- 1) For each coating line which applies multiple coatings, all of which are subject to the same numerical emission limitation within Section 219.204(g) of this Subpart, during the same day (e.g., all coatings used on the line are subject to 0.34 kg/l (2.8 lbs/gal)), the daily-weighted average VOM content shall not exceed the coating VOM content limit corresponding to the category of coating used, or
  - 2) For each coating line which applies coatings subject to more than

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

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

(Source: Amended at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### Section 219.210 Compliance Schedule

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

- a) No owner or operator of a coating line which is exempt from the limitations of Section 219.204 of this Subpart because of the criteria in Section 219.208(a) or (b) of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Section 219.211(b) of this Subpart. ~~Wood furniture coating lines are not subject to Section 219.211(b) of this Subpart.~~

- b) No owner or operator of a coating line complying by means of Section 219.204 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.204 and 219.211(c) of this Subpart.
- c) No owner or operator of a coating line complying by means of Section 219.205 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.205 and 219.211(d) of this Subpart.
- d) No owner or operator of a coating line complying by means of Section 219.207 of this Subpart shall operate said coating line on or after a date consistent with Section 219.106 of this Part, unless the owner or operator has complied with, and continues to comply with, Sections 219.207 and 219.211(e) of this Subpart.
- e) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 219.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 219.204, 219.205 or 219.207 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with, respectively, the applicable requirements in Section 219.204, or the alternative control options in Sections 219.205 or 219.207 and the requirements of Section 219.211.
- f) No owner or operator of a coating line subject to one or more of the emission limitations contained in Section 219.204 of this Subpart on or after March 15, 1996, choosing to comply by means of Section 219.212 of this Subpart, shall operate said coating line on or after March 15, 1996, unless the owner or operator complies with and continues to comply with the requirements of Sections 219.212 and 219.213 of this Subpart.

(Source: Amended at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### Section 219.211 Recordkeeping and Reporting

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

- b) Any owner or operator of a coating line which is exempted from the limitations of Section 219.204 of this ~~Subpart~~Part because of Section 219.208(a) or (b) of this ~~Subpart~~Part shall comply with the following:
- 1) For sources exempt from Section 219.208(a) of this Subpart,  
~~by~~By a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the coating line or group of coating lines is exempt under the provisions of Section 219.208(a) of this ~~Subpart~~Part. Such certification shall include:
    - A) A declaration that the coating line is exempt from the limitations of Section 219.204 of this ~~Subpart~~Part because of Section 219.208(a) of this ~~Subpart~~Part; and
    - B) Calculations which demonstrate that the combined VOM emissions from the coating line and all other coating lines in the same category never exceed 6.8 kg (15 lbs) per day before the application of capture systems and control devices. The following equation shall be used to calculate total VOM emissions:

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

where:

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

$m$  = Number of coating lines at the source that otherwise would be subject to the same subsection of Section 219.104 of this Part (because they belong to the same category, e.g., can coating);

$j$  = Subscript denoting an individual coating line;

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

$i$  = Subscript denoting an individual coating;



$A_i$  = Weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of kg VOM/l (lbs VOM/gal);

$B_i$  = Volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line in units of l/day (gal/day). The instrument or method by which the owner or operator accurately measured or calculated the volume of each coating as applied on each coating line each day shall be described in the certification to the Agency.

2) For sources exempt under Section 219.208(b) of this Subpart, by March 15, 1998, or upon initial start-up, the owner or operator of a coating line or a group of coating lines referenced in subsection (b) of this Section shall certify to the Agency that the source is exempt under the provisions of Section 219.208(b) of this Subpart. Such certification shall include:

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

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

3)2) For sources exempt under Section 219.208(a) of this Subpart, ~~on~~ and after a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of lines referenced in this subsection shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:

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

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

- 4) For sources exempt under Section 219.208(b) of this Subpart, on and after March 15, 1998, the owner or operator of a coating line or group of coating lines referenced in this subsection (b) shall collect and record all of the following information for each coating line and maintain the information at the source for a period of three years:
- A) The name and identification number of each coating as applied on each coating line; and
  - B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied on each coating line on a monthly basis.
- 5)3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a coating line or group of coating lines exempted from the limitations of Section 219.204 of this ~~SubpartPart~~ because of Section 219.208(a) of this ~~SubpartPart~~ shall notify the Agency of any record showing that total VOM emissions from the coating line or group of coating lines exceed 6.8 kg (15 lbs) in any day before the application of capture systems and control devices by sending a copy of such record to the Agency within 30 days after the exceedance occurs.
- 6) On and after March 15, 1998, any owner or operator of a source exempt from the limitations of Section 219.204(l) of this Subpart because of Section 219.208(b) of this Subpart shall notify the Agency if the source's VOM emissions exceed the limitations of Section 219.208(b) of this Subpart by sending a copy of calculations showing such an exceedance within 30 days after the change occurs.
- c) Any owner or operator of a coating line subject to the limitations of Section 219.204 of this ~~SubpartPart~~ other than Section 219.204(a)(2) and (a)(3) of this Subpart and complying by means of Section 219.204 of this ~~SubpartPart~~ shall comply with the following:
- 1) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance from an existing subject coating line from Section 219.205, ~~or~~ Section 219.207, Section 219.215, or Section 219.216 of this Subpart to Section 219.204 of this ~~SubpartPart~~; the owner or operator of a subject coating line shall

certify to the Agency that the coating line will be in compliance with Section 219.204 of this ~~Subpart~~Part on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:

- A) The name and identification number of each coating as applied on each coating line-;
  - B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line-; and
  - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
- 2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
- A) The name and identification number of each coating as applied on each coating line-;
  - B) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line-;
  - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line and certified product data sheets for each coating; and
  - D) On and after March 15, 1998, for wood furniture coating spray booths subject to the limitation of Section 219.204(l)(4)(A) of this Subpart, the weight of VOM per weight of solids in each strippable spray booth coating as applied each day on each spray booth and certified product data sheets for each coating.

- 3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:
  - A) Any record showing violation of Section 219.204 of this SubpartPart shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
  - B) At least 30 calendar days before changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 of this SubpartPart, the owner or operator shall comply with all requirements of subsection (d)(1) or (e)(1) below, respectively. Upon changing the method of compliance from Section 219.204 to Section 219.205 or Section 219.207 of this SubpartPart, the owner or operator shall comply with all requirements of subsection (d) or (e) of this Section, respectively.
- d) Any owner or operator of a coating line subject to the limitations of Section 219.204 of this SubpartPart and complying by means of Section 219.205 of this SubpartPart shall comply with the following:
  - 1) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing subject coating line from Section 219.204 or Section 219.207 to Section 219.205 of this SubpartPart; the owner or operator of the subject coating line shall certify to the Agency that the coating line will be in compliance with Section 219.205 on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:
    - A) The name and identification number of each coating line which will comply by means of Section 219.205 of this SubpartPart.
    - B) The name and identification number of each coating as applied on each coating line.
    - C) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.

- D) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(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.
  - ED) 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.
  - FE) The method by which the owner or operator will create and maintain records each day as required in subsection (d)(2) of this Section.
  - GF) An example of the format in which the records required in subsection (d)(2) of this Section will be kept.
- 2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
- A) The name and identification number of each coating as applied on each coating line.
  - B) The weight of VOM per volume and the volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
  - C) On and after March 15, 1998, for coating lines subject to the limitations of Section 219.204(l)(2)(A) or (B) of this Subpart, the weight of VOM per weight of solids in each coating as applied each day on each coating line.
  - DE) The daily-weighted average VOM content of all coatings as applied on each coating line as defined in Section 219.104 of this Part.
- 3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:
- A) Any record showing violation of Section 219.205 of this Subpart~~Part~~ shall be reported by sending a copy of such

record to the Agency within 30 days following the occurrence of the violation.

- B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart~~Part~~, the owner or operator shall comply with all requirements of subsection (c)(1) or (e)(1) of this Section, respectively. Upon changing the method of compliance with this Subpart from Section 219.205 to Section 219.204 or Section 219.207 of this Subpart~~Part~~, the owner or operator shall comply with all requirements of subsection (c) or (e) of this Section, respectively.
- e) Any owner or operator of a coating line subject to the limitations of Section 219.207 and complying by means of Section 219.207(c), (d), (e), (f), (g) or (h) of this Subpart~~Part~~ shall comply with the following:
- 1) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new coating line, or upon changing the method of compliance for an existing coating line from Section 219.204 or Section 219.205 to Section 219.207 of this Subpart~~Part~~, the owner or operator of the subject coating line shall perform all tests and submit to the Agency the results of all tests and calculations necessary to demonstrate that the subject coating line will be in compliance with Section 219.207 of this Subpart~~Part~~ on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date.
  - 2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating line shall collect and record all of the following information each day for each coating line and maintain the information at the source for a period of three years:
    - A) The weight of VOM per volume of coating solids as applied each day on each coating line, if complying pursuant to Section 219.207(b)(2) of this Subpart~~Part~~.
    - B) Control device monitoring data.
    - C) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line.

- D) A maintenance log for the capture system, control device and monitoring equipment detailing all routine and non-routine maintenance performed including dates and duration of any outages.
- 3) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject coating line shall notify the Agency in the following instances:
- A) Any record showing violation of Section 219.207 of this Subpart Part shall be reported by sending a copy of such record to the Agency within 30 days following the occurrence of the violation.
  - B) At least 30 calendar days before changing the method of compliance with this Subpart from Section 219.207 to Section 219.204 or Section 219.205 of this Subpart Part, the owner or operator shall comply with all requirements of subsection (c)(1) or (d)(1) of this Section, respectively. Upon changing the method of compliance with this Subpart Part from Section 219.207 to Section 219.204 or Section 219.205 of this Subpart Part, the owner or operator shall comply with all requirements of subsection (c) or (d) of this Section, respectively.
- f) Any owner or operator of a primer surfacer operation or topcoat operation subject to the limitations of Section 219.204(a)(2) or (a)(3) of this Subpart Part shall comply with the following:
- 1) By a date consistent with Section 219.106 of this Part, or upon initial start-up of a new coating operation, the owner or operator of a subject coating operation shall certify to the Agency that the operation will be in compliance with Section 219.204 of this Subpart Part on and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date. Such certification shall include:
    - A) The name and identification number of each coating operation which will comply by means of Section 219.204(a)(2) and (a)(3) of this Subpart Part and the name and identification number of each coating line in each coating operation.
    - B) The name and identification number of each coating as

applied on each coating line in the coating operation.

- C) The weight of VOM per volume of each coating (minus water and any compounds which are specifically exempted from the definition of VOM) as applied each day on each coating line.
  - D) The transfer efficiency and control efficiency measured for each coating line.
  - E) Test reports, including raw data and calculations documenting the testing performed to measure transfer efficiency and control efficiency.
  - F) The instrument or method by which the owner or operator will accurately measure or calculate the volume of each coating as applied each day on each coating line.
  - G) The method by which the owner or operator will create and maintain records each day as required in subsection (f)(2) below.
  - H) An example format for presenting the records required in subsection (f)(2) below.
- 2) On and after a date consistent with Section 219.106 of this Part, or on and after the initial start-up date, the owner or operator of a subject coating operation shall collect and record all of the following information each day for each topcoat or primer surfacer coating operation and maintain the information at the source for a period of three years:
- A) All information necessary to calculate the daily-weighted average VOM emissions from the coating operations in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted, and approved pursuant to Section 219.204(a)(2) or (a)(3) of this ~~Subpart~~Part 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 used to control VOM emissions, control device monitoring data; a log of operating time for the capture system, control device, monitoring equipment and the associated coating operation; and a maintenance log for the capture system, control device and monitoring equipment, detailing all routine and non-routine maintenance performed including dates and duration of any outages.
- 3) On and after a date consistent with Section 219.106 of this Part or on and after the initial start-up date, the owner or operator of a subject coating operation shall determine and record the daily VOM emissions in kg (lbs) per 1 (gal) of coating solids deposited in accordance with the proposal submitted and approved pursuant to Section 219.204(a)(2) or (a)(3) of this ~~Subpart~~ Part within 10 days from the end of the month and maintain this information at the source for a period of three years.
  - 4) On and after a date consistent with Section 219.106 of this Part, the owner or operator of a subject coating operation shall notify the Agency in the following instances:
    - A) Any record showing a violation of Section 219.204(a)(2) or (a)(3) of this ~~Subpart~~ Part 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.

(Source: Amended at \_\_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.215 Wood Furniture Coating Averaging Approach

- a) On and after March 15, 1998, any owner or operator of a source subject to the limitations of Section 219.204(l) of this Subpart may elect to comply with the requirements of this Section rather than complying with

the applicable emission limitations set forth in Section 219.204(l)(2)(A) or (B) of this Subpart. The source must continue to comply with the limitations set forth in Sections 219.204(l)(3) and (4) of this Subpart. 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 a source subject to the limitations of Section 219.204(l) of this Subpart and electing to rely on this Section to demonstrate compliance with this Subpart must establish, by use of subsection (b)(1) or (b)(2) of this Section, that, on a daily basis, actual emissions from the affected source are less than or equal to ninety percent of the allowable emissions, that is  $V_a \leq V_p$ :

1) Option I:

$$\underline{\text{A)}} \quad \underline{V_a = \sum_{i=1}^n (ER_{TC_i} \times TC_i); \text{ and}}$$

$$\underline{\text{B)}} \quad \underline{V_p = 0.9 \times \sum_{i=1}^n (0.8 \times TC_i)}$$

2) Option II:

$$\underline{\text{A)}} \quad \underline{V_a = \sum_{i=1}^n [ (ER_{TC_i} \times TC_i) + (ER_{SE_i} \times SE_i) + (ER_{WC_i} \times WC_i) + (ER_{PC_i} \times PC_i) + (ER_{ST_i} \times ST_i) ]; \text{ and}}$$

$$\underline{\text{B)}} \quad \underline{V_p = 0.9 \times \sum_{i=1}^n [ (1.8 \times TC_i) + (1.9 \times SE_i) + (9.0 \times WC_i) + (1.2 \times PC_i) + (0.791 \times ST_i) ]}$$

where:

$V_a$  = Actual VOM emissions from the source;

$V_p$  = 90% of the allowable VOM emissions from the source;

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

- $i$  = Subscript denoting an individual coating;
- $TC_i$  = kilograms of solids in topcoat “i” used;
- $SE_i$  = kilograms of solids in sealer “i” used;
- $WC_i$  = kilograms of solids in wash coat “i” used;
- $PC_i$  = kilograms of solids in non-topcoat pigmented coat “i” used;
- $ST_i$  = liters of stain “i” used;
- $ER_{TC_i}$  = VOM content of topcoat “i” in kg VOM/kg solids, as applied;
- $ER_{SE_i}$  = VOM content of sealer “i” in kg VOM/kg solids, as applied;
- $ER_{WC_i}$  = VOM content of washcoat “i” in kg VOM/kg solids, as applied;
- $ER_{PC_i}$  = VOM content of non-topcoat pigmented coat “i” in kg VOM/kg solids, as applied;
- $ER_{ST_i}$  = VOM content of stain “i” in kg VOM/liter (kg/l), as applied;

- c) Within the structure of the source’s federally enforceable permit conditions, an owner or operator of a source electing to rely on this Section to demonstrate compliance with this Subpart shall provide to the Agency:
- 1) The name and identification number of each participating coating line;
  - 2) The name and identification number of each coating as applied on each participating coating line;
  - 3) A summary of how averaging will be used to meet the emission limitations;
  - 4) Documentation that  $V_a \leq V_p$ , as calculated in subsection (b)(1) or (2) of this Section;

- 5) A description of which types of coating materials will be included in the source's averaging program, which may include stains, basecoats, washcoats, sealers, and topcoats. Coating materials that are applied using continuous coaters may be used in an averaging program only if the source can determine the amount of coating used each day;
  - 6) A description of methods and procedures for quantifying emissions on a daily basis, including methods to determine the VOM content of each coating and the daily usage of each coating; and
  - 7) A summary of the monitoring, recordkeeping, and reporting procedures that will be used to demonstrate daily compliance with the inequalities in subsections (b)(1) and (2) of this Section. These procedures shall be structured such that the Agency and the owner or operator of the source can determine the source's compliance status for any given day.
- d) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for a period of three years:
- 1) The name and identification number of each coating as applied on the coating line;
  - 2) The weight of VOM per weight of solids (kg VOM/kg solids) and the weight of solids (kg) of each coating as applied on each coating line on a daily basis;
  - 3) Certified product data sheets for each finishing material; and
  - 4) The calculations showing the source has met the conditions of the inequalities in subsection (b)(1) or (2) of this Section.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall:
- 1) Notify the Agency within 30 calendar days following an occurrence of a violation of this Section; and

- 2) Send to the Agency any record showing a violation of this Section within 30 calendar days following the occurrence of a violation.
- f) At least 30 calendar days before changing the method of compliance with this Subpart from reliance on this Section to reliance on Section 219.204(l)(2)(A) or (B) of this Subpart, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines shall:
- 1) Comply with all requirements of Section 219.211(c)(1) of this Subpart; and
- 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Added at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.216 Wood Furniture Coating Add-On Control Use

The owner or operator of a source subject to the requirements of Section 219.204(l)(2) of this Subpart may choose to comply with those limitations by relying on Section 219.204(l)(2)(D) of this Subpart if the owner or operator of the source meets all of the following requirements:

- a) For each coating applied, determine the overall control efficiency needed to demonstrate compliance using the following equation:

$$R = \left[ \frac{(C - L)}{C} \right] \times 100$$

where:

R = the necessary overall capture and control efficiency of the control system, as a percentage;

C = the VOM content of the coating, in kilograms of VOM per kilograms of coating solids (kg VOM/kg solids), as applied;

L = the emission limitation for that coating, as given in Section 219.204(l)(2)(B) of this Subpart.

- b) Calculate the equivalent overall capture and control efficiency of the control device using the procedures of subsections 219.105(c), (d), and (e) of this Part.
- c) Demonstrate that the equivalent overall capture and control efficiency calculated using the procedures in subsections 219.105(c), (d), and (e) of this Part is equal to or greater than the largest value of R calculated for each coating by the equation in subsection (a) of this Section.
- d) Install, calibrate, operate, and maintain the applicable monitoring equipment for the control device as specified in Section 219.105(d) of this Part.
- e) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall, for each coating line relying on this Section, collect and record the following information on a daily basis and maintain the information at the source for a period of three years:
  - 1) The name and identification number of each coating as applied on the coating line;
  - 2) The weight of VOM per weight of solids (kg VOM/kg solids) of each coating as applied on each coating line on a daily basis;
  - 3) Certified product data sheets for each coating;
  - 4) Control device monitoring data;
  - 5) A log of operating time for the capture system, control device, monitoring equipment and the associated coating line; and
  - 6) 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.
- f) On and after March 15, 1998, or on and after the initial start-up date, the owner or operator of a source electing to rely on this Section to comply with the requirements of this Subpart shall:
  - 1) Notify the Agency within 30 calendar days following an occurrence of a violation of this Section; and

- 2) Send to the Agency any record showing a violation of this Section within 30 calendar days following the occurrence of a violation.
- g) At least 30 calendar days before changing the method of compliance with this Subpart from reliance on this Section to reliance on Section 219.204(l)(2)(A) or (B) of this Subpart, the owner or operator of a source relying on this Section to demonstrate compliance with this Subpart for one or more wood furniture coating lines shall:
- 1) Comply with all requirements of Section 219.211(c)(1) of this Subpart; and
  - 2) Certify that all remaining coating lines relying on this Section to comply with the requirements of this Subpart, if any, comply and continue to comply with the requirements of this Section.

(Source: Added at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.217 Wood Furniture Coating Work Practice Standards

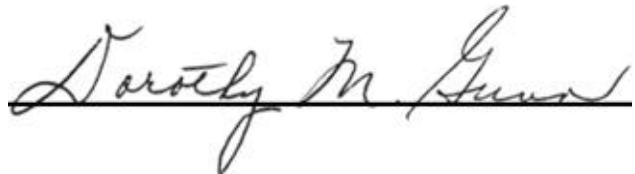
- a) Spray booth cleaning. Each owner or operator of a source subject to the limitations of Section 219.204(l) of this Subpart shall not use compounds containing more than 8.0 percent, by weight, of VOM for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, and metal filters, unless the spray booth is being refurbished. If the spray booth is being refurbished, that is, the spray booth coating or other material used to cover the booth is being replaced, the affected source shall use no more than 1.0 gallon of organic solvent to prepare the booth prior to applying the booth coating.
- b) Cleaning and storage requirements. Each owner or operator of a source subject to the limitations of Section 219.204(l) of this Subpart shall:
- 1) Keep, store, and dispose of all coating, cleaning, and washoff materials in closed containers;
  - 2) Pump or drain all organic solvent used for line cleaning into closed containers;
  - 3) Collect all organic solvent used to clean spray guns in closed containers; and
  - 4) Control emissions from washoff operations by using closed tanks.

- c) Application equipment requirements. No owner or operator of a source subject to the limitations of Section 219.204(l) of this Subpart shall use conventional air spray guns to apply coating materials to wood furniture except under the circumstances specified in subsections (c)(1) through (4) of this Section:
- 1) To apply coating materials that have a VOM content no greater than 1.0 kg VOM/kg solids (1.0 lb VOM/lb solids), as applied;
  - 2) For repair coating under the following circumstances:
    - A) The coating materials are applied after the completion of the coating operation; or
    - B) The coating materials are applied after the stain and before any other type of coating material is applied, and the coating materials are applied from a container that has a volume of no more than 2.0 gallons;
  - 3) If the spray gun is aimed and triggered automatically, rather than manually; or
  - 4) If emissions from the finishing application station are directed to a control device pursuant to Section 219.216 of this Subpart.

(Source: Added at \_\_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above opinion and order was adopted on the 18th day of December, 1997 by a vote of 7-0.



Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board