

ILLINOIS POLLUTION CONTROL BOARD  
April 20, 1995

IN THE MATTER OF: )  
 )  
15% ROP PLAN CONTROL MEASURES )  
FOR VOM EMISSIONS - PART VI: ) R94-32  
MOTOR VEHICLE REFINISHING: ) (Rulemaking - Air)  
AMENDMENTS TO 35 ILL. ADM. )  
CODE 211, 218 AND 219 )

Adopted Rule.    Final Order.

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

Section 182(b)(1) of the Clean Air Act (CAA), as amended in 1990, requires all moderate and above ozone nonattainment areas to achieve a 15% reduction of 1990 emissions of volatile organic material (VOM) by 1996. In Illinois, the Chicago and the Metro-East St. Louis (Metro-East) areas are classified as "severe" and "moderate" nonattainment for ozone, respectively, and as such are subject to the 15% reduction requirement. Also pursuant to Section 182(b) of the CAA, Illinois is to submit a 15% Rate of Progress Plan (ROP) within three years of the enactment of the CAA Amendments.

The instant rulemaking, which was filed on October 28, 1994 by the Illinois Environmental Protection Agency (Agency), represents Part VI of the rules to be adopted in the State's 15% ROP. This rulemaking requires all motor vehicle refinishing operations located in the Chicago and Metro-East ozone nonattainment areas to: comply with the specified VOM content limitations for coatings and surface preparation materials, use specified coating applicators and coating applicator cleaning equipment, comply with recordkeeping and reporting requirements, and register annually with the Agency. This rulemaking also provides for a control equipment alternative.

The Board's responsibility in this matter arises from the Environmental Protection Act (Act) (415 ILCS 5/1 et seq. (1992)). 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 Illinois Environmental Protection Agency (Agency) has primary responsibility for administration of the Act and the Board's regulations. The latter includes administering today's new regulation.

The rules as proposed were filed pursuant to Section 28.5 of the Act. (415 ILCS 5/28.5 (1992).) That section requires the Board to proceed with rulemaking under set time-frames. The Board has no discretion to adjust these time frames under any circumstances. Today the Board acts to adopt this rule as final and send the amendments to the Administrative Code Division of the Secretary of State's office for publication and assignment of an effective date pursuant to the Illinois Administrative Procedure Act (APA). (5 ILCS 100/1005-40 (1992).)

#### PROCEDURAL HISTORY

On November 23, 1994, the Board sent the rules as proposed to first notice under the APA, without commenting on their merits. The proposal was published in the Illinois Register on December 9, 1994, at 18 Ill. Reg. 17355 (Part 211), 18 Ill. Reg. 17372 (Part 218), and 18 Ill. Reg. 17390 (Part 219). A hearing was held on December 16, 1994 in Chicago, Illinois before hearing officer Audrey Lozuk-Lawless. A request for a second hearing was not received by the Board and a statement of agreement was made by the Agency on the record at the hearing on December 16, 1994. Previously scheduled second and third hearings were cancelled pursuant to Section 28.5(g) of the Act. (415 ILCS 5/28.5(g) (1992).) Pursuant to Section 28.5(l), the comment period closed January 23, 1995. On February 17, 1995 the Board sent the proposed amendments to the Joint Committee on Administrative Rules (JCAR) for review as required by the APA. On March 14, 1995 JCAR voted a certificate of no objection to the rule. JCAR recommended minor grammatical corrections which the Board today incorporates into the rules.

#### PROPOSAL

This proposal affects VOM emissions from all motor vehicle refinishing operations in both the Chicago and Metro-East ozone nonattainment areas. These same operations are currently subject to the control requirements of Sections 218.980 and 219.980 if the source has maximum theoretical emissions of at least 100 tons of VOM per year. However, the Agency is not aware of any Illinois refinishing operation with emissions above this threshold. (State. at 2.)<sup>1</sup> This proposal is estimated to affect 1,463 motor vehicle refinishing operations in the Chicago area and 107 in the Metro-East area. The Agency expects this control measure to reduce VOM emissions by 16.3 TPD in the Chicago nonattainment areas and 1.2 TPD in the Metro-East St. Louis nonattainment area. (State. at 5.)

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<sup>1</sup> The Agency's Statement of Reasons will be cited as "State. at \_\_\_".

operation to reduce VOM emissions. The United States Environmental Protection Agency (USEPA) issued a draft Control Techniques Guideline (CTG) document in September 1991 that would cover this category of sources. However, rather than finalizing this CTG, the USEPA issued an Alternative Control Technology (ACT) document outlining methods and costs associated with controlling VOM emissions from the motor vehicle refinishing operations. (State. at 4.) The USEPA Region 5 contracted with the Midwest Research Institute to conduct a study of this source category for the Chicago and Metro-East nonattainment areas. The proposal is based primarily on these documents, but also on rule proposals from other states, and input from potentially affected facilities in Illinois. (State. at 4.)

Specifically, this rulemaking requires owners and operators of motor vehicle refinishing operations to apply coatings that comply with prescribed VOM content limitations for specified categories of coatings. All coatings must be used according to manufacturer's specifications and if the coating is mixed prior to application, this mixing cannot create a violation of the VOM content limitations. (State. at 4.) Additional VOM content limitations are provided for surface preparation materials with different limitations based on the substrate involved. Surface preparation material for plastic parts are allowed a higher VOM content level than for other substrates. (State. at 5.)

Subpart HH, Sections 218.784 and 219.784, requires owners or operators to apply coatings with specified coating applicator systems. (State. at 5.) These applicators are required because of demonstrated improved transfer efficiency. (State. at 5.) The coating applicator systems allowed are high volume, low pressure (HVLP) systems or electrostatic systems. Sections 218.784 and 219.784 also require the use of coating applicator cleaning devices that reduce the amount of solvent that evaporates. (State. at 5.)

Sources that use less than 20 gallons of coating per year are exempt from the coating applicator and coating applicator cleaning device equipment requirements. (State. at 5.) However, instead of requiring specific coating applicator cleaning systems for these exempt sources, this rulemaking requires solvents used to clean coating applicator equipment to be directed into a container for proper disposal or recycling. (State. at 5.) Neither the VOM content limitations nor the equipment requirements apply to touch-up coating, which is defined in the proposal as a coating applied by brush or by hand held non-refillable aerosol cans. (State. at 5.)

This rulemaking also allows sources to use control equipment as an alternative to complying with the VOM content limitations. Any alternative control plan must reduce VOM emissions at the source by at least 90%. (State. at 5.) If this method of

compliance is selected, the rulemaking includes associated monitoring and recordkeeping requirements for the control devices.

General recordkeeping and reporting requirements for sources are included in the rulemaking. Sources are required to keep records of all coatings and surface preparation materials purchased monthly, and to determine VOM content of each through information supplied by the manufacturer. All sources are required to register with the Agency by the initial compliance date and to re-register annually. Additionally, a source must notify the Agency 30 days before changing its method of compliance. (State. at 5.)

#### PUBLIC COMMENTS

The Board received 4 public comments in this matter. Comments were received from the Illinois Department of Commerce and Community Affairs (DCCA) (PC #1), the Chicago Department of Environment (CDOE) (PC #2), the Agency (PC #3), and the Administrative Code Division (Code Division) (PC #4).

The Board has considered all public comments, as well as all testimony and exhibits, in making its decisions in this matter. In general, there is no disagreement on the part of the participants and commenters on the substance of the proposal.

The comment from DCCA states that it has reviewed the proposal and determined that it will not significantly impact small businesses. DCCA defers to the findings of the Board based on hearings and written public comment to the Board.

CDOE supports this rulemaking. CDOE acknowledges that area sources must be addressed for the Chicago nonattainment area to come into compliance with the CAA. Its interest extends beyond ozone formation to issues such as odor nuisances, toxicity levels in communities, and compatible land uses. CDOE states that during the first ten months of 1994 its enforcement staff had responded to more than 350 air pollution complaints arising from motor vehicle refinishing operations. The majority of CDOE's complaints originated from odor nuisances or concerns of acute and long-term health exposure. Since 1992 CDOE has filed enforcement cases against these facilities using common law nuisance actions. CDOE believes this rulemaking will address these nuisances in addition to the ozone precursor issue.

CDOE also believes that the economic impact of this rulemaking as it affects businesses within the City of Chicago is mitigated by three factors: many other facilities in Chicago have already invested the resources required to comply with this rulemaking which has put them at a competitive disadvantage with others who have not; the equipment and processes are conservation



oriented resulting in smaller volumes of paint and solvent used and thus lower raw material and waste disposal costs; and CDOE anticipates fewer response costs, lower litigation fees, and improved public health effects. CDOE notes that the proposed control measures are reasonably achievable because they have been adopted in New York, New Jersey, Texas and California.

CDOE anticipates that the Agency's estimation of 16.3 tons of VOM reduction per day in the Chicago area is lower than what will actually be achieved. Lastly, CDOE suggests that a simplified format for the reporting and record-keeping be developed as part of the State's program management. CDOE recognizes that simplified reporting requirements are necessary where lack of experience and language barriers often exist. CDOE has offered to provide any resources necessary to achieve this simplified reporting and recordkeeping.

The Agency comment states that the Agency believes the proposed rule is fully supported by the affected industry. The Agency comment addresses an inquiry made by the Board at the December 16, 1994 hearing regarding the status of the USEPA Auto Refinishing Regulation and its impact upon the proposed Illinois regulation. The Agency states the USEPA intends to propose a national rule in July, 1995, finalize that rule in February, 1996, and implement it in August, 1996. The national rule would limit the VOM content of Auto Refinishing coatings. According to the Agency, both the USEPA and the Illinois rule propose the Option 1 coating limits contained in the USEPA ACT document. The Agency believes that the USEPA national rule would complement Illinois' current proposal. The national rule would require paint manufacturers to produce lower VOM coatings which would decrease the burden on individual autobody shop owners needing a supply of compliant coatings.

Finally, the Code Division suggests various form and typographical corrections which the Board accepts and incorporates into the proposed rules.

#### CONCLUSION

The Board finds that the rules are technically feasible and economically reasonable, and that the rules are necessary to meet the requirements of the Clean Air Act. We find that the record supports adopting the rules, as amended in the February 16, 1995 second notice opinion and order. The only additional changes made to the rules are non-substantive technical corrections, such as the addition or deletion of commas, at various places in the rules.

ORDER

The Board hereby adopts the following amendments to 35 Ill. Adm. Code 211, 218, and 219. The Board directs the Clerk to submit the following adopted amendments to the Administrative Code Division of the Secretary of State:

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
<u>211.240</u>	<u>Adhesion Promoter</u>
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
211.490	Annual Grain Through-Put
<u>211.495</u>	<u>Anti-Glare/Safety Coating</u>
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
211.670	Baked Coatings
<u>211.685</u>	<u>Basecoat/Clearcoat System</u>

211.690 Batch Loading  
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  
211.830 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  
211.990 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  
211.1470 Continuous Process  
211.1490 Control Device  
211.1510 Control Device Efficiency  
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  
211.1790 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  
211.1890 Electrostatic Bell or Disc Spray  
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  
211.2130 Existing Grain-Handling Operation  
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  
211.2300 Fill  
211.2310 Final Repair Coat  
211.2330 Firebox  
211.2350 Fixed-Roof Tank  
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  
211.2650 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 (HVLV) 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  
211.4010 New Grain-Handling Operation  
211.4030 No Detectable Volatile Organic Material Emissions  
211.4050 Non-contact Process Water Cooling Tower  
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  
211.4750 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  
211.5070 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  
211.5250 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  
211.5490 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  
211.5610 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  
211.5990 Shotblasting  
211.6010 Side-Seam Spray Coat  
211.6030 Smoke  
211.6050 Smokeless Flare  
211.6070 Solvent  
211.6090 Solvent Cleaning  
211.6110 Solvent Recovery System  
211.6130 Source  
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  
211.6410 Storage Tank or Storage Vessel  
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  
211.6590 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  
211.6890 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  
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

APPENDIX A Rule into Section Table

## 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 (1992)].

**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 R94-32 at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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

## SUBPART B: DEFINITIONS

Section 211.240 Adhesion Promoter

"Adhesion promoter" means a coating used to promote adhesion of a topcoat on surfaces such as trim moldings, door locks and door sills, where sanding is impractical.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.495      Anti-Glare/Safety Coating

"Anti-glare/safety coating" means a low gloss coating formulated to minimize glare for safety purposes on interior surfaces of a vehicle, as specified under the U.S. Department of Transportation Motor Vehicle Safety Standards.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.685      Basecoat/Clearcoat System

"Basecoat/clearcoat system" means a topcoat system composed of a pigmented basecoat portion and a transparent clearcoat portion.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.1875      Elastomeric Materials

"Elastomeric materials" means topcoats and primers that are specifically formulated for application over flexible parts such as filler panels and elastomeric bumpers.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.3915      Mobile Equipment

"Mobile equipment" means any equipment which may be drawn or is capable of being driven on a roadway, other than motor vehicles, including, but not limited to truck or automobile trailers, farm machinery, construction equipment, street cleaners and golf carts.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.3960      Motor Vehicles

"Motor vehicles" means automobiles, trucks, vans, motorcycles, or buses.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_  
\_\_\_\_\_)

Section 211.3965      Motor Vehicle Refinishing

"Motor vehicle refinishing" means any application of coatings to motor vehicles, mobile equipment, or their parts and components, which is subsequent to the original coating applied at an original equipment manufacturing plant.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.5010      Precoat

"Precoat" means any coating which is applied to bare metal primarily to deactivate the metal surface for corrosion resistance to a subsequent water-base primer.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.5061      Pretreatment Wash Primer

"Pretreatment wash primer" means the first coating applied to bare metal if solventborne primers will be applied. This coating contains a minimum of 0.5 percent acid, by weight, is necessary to provide surface etching, and provides corrosion resistance and adhesion.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.5080      Primer Sealer

"Primer sealer" means an undercoat that improves the adhesion of the topcoat, provides corrosion resistance, and promotes color uniformity.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.5090      Primer Surfacer Coat

- a) "Primer surfacer coat" means, for purposes of 35 Ill. Adm. Code 215.204(a), 218.204(a), and 219.204(a), a coating used to touch up areas on the surface of automobile or light-duty truck bodies not adequately covered by the prime coat before application of the top coat. The primer surfacer coat is applied between the prime coat and topcoat. An anti-chip coating applied to main body parts (e.g., rocker panels, bottom of doors and fenders, and leading edge of roof) is a primer surfacer coat. The primer surfacer coat is also referred to as a "guide coat."

- b) "Primer surfacer coat" means, for purposes of 35 Ill. Adm. Code Part 218, Subpart HH and Part 219, Subpart HH, a coating applied to motor vehicles, mobile equipment, or their parts and components at motor vehicle refinishing operations that fills in surface imperfections and builds a thickness in order to allow sanding.

(Source: Amended at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6145 Specialty Coatings for Motor Vehicles

"Specialty coatings for motor vehicles" means, for purposes of 35 Ill. Adm. Code Part 218 and Part 219, Subpart HH, a coating used for unusual job performance requirements, including, but not limited to, adhesion promoters, uniform finish blenders, elastomeric materials, gloss flatteners, and bright metal trim repair.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6540 Surface Preparation Materials

"Surface preparation materials" means materials that are used to remove foreign matter, such as wax, tar, grease, and silicone, from the surface to be coated.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6620 Three or Four Stage Coating System

"Three or four stage coating system" means a topcoat system composed of a colored basecoat, one or two semi-transparent midcoats, and a transparent clearcoat.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6695 Topcoat System

"Topcoat system" means the final film or series of films of coating applied to a motor vehicle refinishing surface, and includes basecoat/clearcoat systems and three or four stage coating systems.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6720 Touch-Up Coating

"Touch-up coating" means, for purposes of motor vehicle refinishing operations, a coating applied by brush or hand held, non-refillable aerosol cans to repair minor surface damage and imperfections.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 211.6860 Uniform Finish Blender

"Uniform finish blender" means a thinner or low solids clear solution which is used to melt overspray from a repaired area into the unrepaired color.

(Source: Added at 19 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

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ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS FOR THE  
CHICAGO AREA

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Section 218.APPENDIX D: Coefficients for the Total Resource Effectiveness Index (TRE) Equation

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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 R91-23 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill. Reg. 13864, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16636, effective September 27, 1993; amended in R93-14 at 18 Ill. Reg. at 1945, effective January 24, 1994; amended in R94-12 at 18 Ill. Reg. 14973, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16392, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16950, effective November 15, 1994; amended in R94-32 at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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

SUBPART HH: MOTOR VEHICLE REFINISHING

Section 218.780 Emission Limitations

- a) Except as provided in Section 218.782 of this Subpart, no owner or operator of a motor vehicle refinishing operation shall coat motor vehicles, mobile equipment, or their parts and components, unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, minus water and any compounds that are

specifically exempted from the definition of VOM. The VOM content limitations are as follows:

	<u>kg/l</u>	<u>(lb/gal)</u>
1) <u>Pretreatment wash primer</u>	<u>0.78</u>	<u>(6.5)</u>
2) <u>Precoat</u>	<u>0.66</u>	<u>(5.5)</u>
3) <u>Primer/primer surfacer coating</u>	<u>0.58</u>	<u>(4.8)</u>
4) <u>Primer sealer</u>	<u>0.55</u>	<u>(4.6)</u>
5) <u>Topcoat system or basecoat/clearcoat</u>	<u>0.60</u>	<u>(5.0)</u>
6) <u>Three or four stage topcoat system</u>	<u>0.63</u>	<u>(5.2)</u>
7) <u>Specialty coatings</u>	<u>0.84</u>	<u>(7.0)</u>
8) <u>Anti-glare/safety coating</u>	<u>0.84</u>	<u>(7.0)</u>

- b) All coating shall be used according to manufacturer's specifications. If a coating requires the addition of a reducer, hardener, or other additive, in some combination, this addition must not cause the coating, as applied, to exceed the applicable VOM content limitation.
- c) Specialty coatings shall represent no more than 5 percent, by volume, of all coatings applied at a source on a monthly basis.
- d) The following equations shall be used to calculate the VOM content of topcoat systems:

- 1) The VOM content of basecoat/clearcoat systems shall be calculated 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), according to the following equation:

$$\text{VOM } T_{bc/cc} = \frac{(\text{VOM}_{bc} + 2 \text{VOM}_{cc})}{3}$$

Where:

$$\text{VOM } T_{bc/cc} = \frac{\text{The weighted average of the VOM content, as applied, in units of kg}}{\text{The weighted average of the VOM content, as applied, in units of kg}}$$

VOM/l (lbs VOM/gal) of coating, (minus water and any compounds which are specifically exempted from the definition of VOM), in the basecoat (bc) and clearcoat (cc) system;

VOM<sub>bc</sub> = The VOM content, 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), of any given basecoat; and

VOM<sub>cc</sub> = The VOM content, 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), of any given clearcoat.

- 2) The VOM content for a three stage coating system shall be calculated 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), according to the following formula:

$$\text{VOM } T_{ms} = \frac{(\text{VOM}_{bc} + \text{VOM}_{mc} + 2 \text{VOM}_{cc})}{4}$$

Where:

VOM } T<sub>ms</sub> = The weighted average of the VOM content, 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), in the basecoat, midcoat and clearcoat system;

VOM<sub>bc</sub> = The VOM content, 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), of any given basecoat;

VOM<sub>mc</sub> = The VOM content, 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), of any given midcoat; and

VOM<sub>cc</sub> = The VOM content, 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), of any given clearcoat.

- 3) The VOM content for a four stage coating system shall be calculated 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), according to the following formula:

VOM T<sub>ms</sub> = (VOM<sub>bc</sub> + VOM<sub>mc1</sub> + VOM<sub>mc2</sub> + 2 VOM<sub>cc</sub>)/5

Where:

VOM T<sub>ms</sub> = The weighted average of the VOM content, 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), in the basecoat, midcoats and clearcoat system;

VOM<sub>bc</sub> = The VOM content, 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), of any given basecoat;

VOM<sub>mc1</sub> = The VOM content, 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), of the first midcoat;

VOM<sub>mc2</sub> = The VOM content, 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), of the second midcoat; and

VOM<sub>cc</sub> = The VOM content, 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), of any given clearcoat.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### Section 218.782 Alternative Control Requirements

As an alternative to complying with the VOM content limitations in Section 218.780 of this Subpart, the owner or operator of a motor vehicle refinishing operation may operate control equipment that reduces VOM emissions at the source by at least 90 percent as provided in either subsection (a) or (b) of this Section.

- a) An owner or operator may operate an afterburner or carbon adsorber; or
- b) An owner or operator may use an equivalent alternative control plan, other than an afterburner or carbon adsorber, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

### Section 218.784 Equipment Specifications

Every owner or operator of a motor vehicle refinishing operation, unless the source uses less than 20 gallons of coating per calendar year from all motor vehicle refinishing operations combined, shall:

- a) Coat motor vehicles, mobile equipment, or their parts and components using one of the following coating applicators:
  - 1) Electrostatic spray equipment calibrated, operated and maintained in accordance with the manufacturer's specifications; or
  - 2) High Volume Low Pressure (HVLP) spray equipment calibrated, operated and maintained in accordance with the manufacturer's specifications; and

- b) Clean all coating applicators with a device that:
- 1) Recirculates solvent during the cleaning process;
  - 2) Collects spent solvent so it is available for disposal or recycling; and
  - 3) Minimizes evaporation of solvents during cleaning, rinsing, draining, and storage.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.786      Surface Preparation Materials

Every owner or operator of a motor vehicle refinishing operation only shall use surface preparation materials that never exceed the following VOM content limitations for the specified substrate:

	<u>kg/l</u>	<u>(lb/gal)</u>
a) <u>Plastic parts</u>	<u>0.78</u>	<u>(6.5)</u>
b) <u>Other substrates</u>	<u>0.17</u>	<u>(1.4)</u>

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.787      Work Practices

- a) Every owner or operator of a motor vehicle refinishing operation shall ensure that fresh and spent solvent, cloth or paper used to apply solvents for surface preparation or cleanup, waste paint, and sludge are stored in closed containers.
- b) Every owner or operator of a motor vehicle refinishing operation that is exempt from the equipment specifications in Section 218.784 of this Subpart because it uses less than 20 gallons of coating per year shall direct solvent used to clean coating applicator equipment and paint lines into a container for proper disposal or recycling.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.788      Testing

- a) Upon request by the Agency, the owner or operator of a motor vehicle refinishing operation shall, at its own

expense, conduct tests to demonstrate compliance with Sections 218.780, 218.782 or 218.786 of this Subpart, in accordance with the applicable test methods and procedures specified in Section 218.105 of this Part and shall:

- 1) Notify the Agency 30 days prior to conducting such tests; and
  - 2) Submit all test results to the Agency within 45 days after conducting the requisite tests.
- b) For purposes of this Section, surface preparation materials shall be treated as coatings.
- c) Nothing in this Section shall limit the authority of USEPA pursuant to the Clean Air Act, as amended, to require testing, or shall affect the authority of USEPA under Section 114 of the Clean Air Act (42 U.S.C. 7414 (1990)).

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.789            Monitoring and Recordkeeping for Control Devices

- a) Every owner or operator of a motor vehicle refinishing operation that complies with this Subpart pursuant to Section 218.782 of this Subpart shall:
- 1) Install and operate equipment to continuously monitor each control device as specified in Section 218.105(d)(2)(A) of this Part;
  - 2) Keep records of parameters for control devices as monitored pursuant to subsection (a)(1) of this Section;
  - 3) Keep logs of operating time of the control device and monitoring equipment;
  - 4) Keep logs of maintenance of the control device and monitoring equipment; and
  - 5) Maintain all records required in this Section for the most recent consecutive three year period and make all such records available to the Agency immediately upon request.
- b) An owner or operator may monitor with an alternative method or monitor other parameters than specified in

subsection (a)(1) of this Section, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.790      General Recordkeeping and Reporting

On and after the compliance date specified in Section 218.791 of this Subpart, every owner or operator of a motor vehicle refinishing operation shall maintain the following records for the most recent consecutive 3 years. Such records shall be made available to the Agency immediately upon request:

- a) The name and manufacturer of each coating and surface preparation product used at the source each month;
- b) The volume of each category of coating, as set forth in Section 218.780 of this Subpart, purchased by the source each month;
- c) The coating mixing instructions, as stated on the container, in literature supplied with the coating, or otherwise specified by the manufacturer, for each coating purchased by the source each month;
- d) The VOM content, expressed as weight of VOM per volume of coating, minus water and any compounds that are specifically exempted from the definition of VOM, recorded on a monthly basis for:
  - 1) Each coating as purchased, if the coating is not mixed with any additives prior to application on the substrate; or
  - 2) Each coating after mixing according to manufacturer's instructions as collected pursuant to subsection (c) of this Section;
- e) The weighted average VOM content of the coating, as specified in Section 218.780(d)(1), (d)(2) or (d)(3) of this Subpart, for each basecoat/clearcoat, and three or four stage coating system purchased by the source, recorded on a monthly basis;
- f) The total monthly volume of all specialty coatings purchased and the percentage specialty coatings comprise in the aggregate of all coatings purchased by the source each month;

- g) The volume of each category of surface preparation material, as set forth in Section 218.786 of this Subpart, purchased by the source each month; and
- h) The VOM content, expressed as weight of VOM per volume of material, including water, of each surface preparation material purchased by the source, recorded on a monthly basis.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.791                      Compliance Date

Every owner or operator of a motor vehicle refinishing operation shall comply with the requirements of this Subpart by March 15, 1996, upon modification or upon initial startup.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.792                      Registration

- a) Every owner or operator of a motor vehicle refinishing operation shall register with the Agency on or before the date specified in Section 218.791 of this Subpart and re-register no later than 45 days following the end of each subsequent calendar year. The following information shall be included in this registration:
- 1) The name and address of the source, and the name and telephone number of the person responsible for submitting the registration information;
  - 2) A description of all coating operations of motor vehicles, mobile equipment, or their parts or components, and all associated surface preparation operations at the source;
  - 3) A description of all coating applicators used at the source to comply with Section 218.784(a) of this Subpart, if applicable;
  - 4) A description of all cleanup operations at the source, including equipment used to comply with Section 218.784(b) of this Subpart, if applicable;
  - 5) A description of all work practices at the source used to comply with Section 218.787 of this Subpart;

- 6) If a source claims to be exempt from the equipment requirements in Section 218.784 of this Subpart because it uses less than 20 gallons of coating per year, the owner's or operator's certification that the annual usage is below this level;
  - 7) A written declaration stating whether the source is complying with this Subpart by using coatings that comply with the applicable VOM content limits in Section 218.780 of this Subpart or by control equipment as specified in Section 218.782; and
  - 8) A description of any control devices used to comply with Section 218.782 of this Subpart and the date(s) the device was installed and became operational.
- b) At least 30 calendar days before changing the method of compliance to or from Sections 218.780 and 218.782, the owner or operator of a motor vehicle refinishing operation shall notify the Agency and certify that the source is in compliance with the applicable requirements for the new method of compliance.

(Source: Added at 19 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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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; amended in R94-32 at 19 Ill.Reg. \_\_\_\_\_, effective \_\_\_\_\_; emergency amendment in R95-10 at \_\_\_\_\_ Ill.Reg. \_\_\_\_\_, effective \_\_\_\_\_ for a maximum of 150 days.

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

#### SUBPART HH: MOTOR VEHICLE REFINISHING

##### Section 219.780 Emission Limitations

- a) Except as provided in Section 219.782 of this Subpart, no owner or operator of a motor vehicle refinishing operation shall coat motor vehicles, mobile equipment, or their parts and components, unless all coatings, except touch-up coatings, never exceed the VOM content limitations in this Section, expressed as units of VOM per volume of coating applied at each coating applicator, minus water and any compounds that are specifically exempted from the definition of VOM. The VOM content limitations are as follows:

	<u>kg/l</u>	<u>(lb/gal)</u>
<u>1) Pretreatment wash primer</u>	<u>0.78</u>	<u>(6.5)</u>
<u>2) Precoat</u>	<u>0.66</u>	<u>(5.5)</u>
<u>3) Primer/primer surfacer coating</u>	<u>0.58</u>	<u>(4.8)</u>
<u>4) Primer sealer</u>	<u>0.55</u>	<u>(4.6)</u>

5)	<u>Topcoat system or basecoat/clearcoat</u>	<u>0.60</u>	<u>(5.0)</u>
6)	<u>Three or four stage topcoat system</u>	<u>0.63</u>	<u>(5.2)</u>
7)	<u>Specialty coatings</u>	<u>0.84</u>	<u>(7.0)</u>
8)	<u>Anti-glare/safety coating</u>	<u>0.84</u>	<u>(7.0)</u>

b) All coating shall be used according to manufacturer's specifications. If a coating requires the addition of a reducer, hardener, or other additive, in some combination, this addition must not cause the coating, as applied, to exceed the applicable VOM content limitation.

c) Specialty coatings shall represent no more than 5 percent, by volume, of all coatings applied at a source on a monthly basis.

d) The following equations shall be used to calculate the VOM content of topcoat systems:

1) The VOM content of basecoat/clearcoat systems shall be calculated 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), according to the following equation:

$$\text{VOM } T_{bc/cc} = \frac{(\text{VOM}_{bc} + 2 \text{VOM}_{cc})}{3}$$

Where:

VOM } T\_{bc/cc} = The weighted average of the VOM content, 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), in the basecoat (bc) and clearcoat (cc) system;

VOM}\_{bc} = The VOM content, 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), of any given basecoat; and

$VOM_{cc}$  = The VOM content, 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), of any given clearcoat.

2) The VOM content for a three stage coating system shall be calculated 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), according to the following formula:

$$VOM_{T_{ms}} = (VOM_{bc} + VOM_{mc} + 2 VOM_{cc}) / 4$$

Where:

$VOM_{T_{ms}}$  = The weighted average of the VOM content, 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), in the basecoat, midcoat and clearcoat system;

$VOM_{bc}$  = The VOM content, 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), of any given basecoat;

$VOM_{mc}$  = The VOM content, 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), of any given midcoat; and

$VOM_{cc}$  = The VOM content, 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), of any given clearcoat.

3) The VOM content for a four stage coating system shall be calculated 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), according to the following formula:

$$\text{VOM } T_{ms} = \frac{(\text{VOM}_{bc} + \text{VOM}_{mc1} + \text{VOM}_{mc2} + 2 \text{VOM}_{cc})}{5}$$

Where:

VOM  $T_{ms}$  = The weighted average of the VOM content, 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), in the basecoat, midcoats and clearcoat system;

VOM<sub>bc</sub> = The VOM content, 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), of any given basecoat;

VOM<sub>mc1</sub> = The VOM content, 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), of the first midcoat;

VOM<sub>mc2</sub> = The VOM content, 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), of the second midcoat; and

VOM<sub>cc</sub> = The VOM content, 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), of any given clearcoat.

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

As an alternative to complying with the VOM content limitations in Section 219.780 of this Subpart, the owner or operator of a motor vehicle refinishing operation may operate control equipment that reduces VOM emissions at the source by at least 90 percent as provided in either subsection (a) or (b) of this Section.

- a) An owner or operator may operate an afterburner or carbon adsorber; or
- b) An owner or operator may use an equivalent alternative control plan, other than an afterburner or carbon adsorber, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.784      Equipment Specifications

Every owner or operator of a motor vehicle refinishing operation, unless the source uses less than 20 gallons of coating per calendar year from all motor vehicle refinishing operations combined, shall:

- a) Coat motor vehicles, mobile equipment, or their parts and components using one of the following coating applicators:
  - 1) Electrostatic spray equipment calibrated, operated and maintained in accordance with the manufacturer's specifications; or
  - 2) High Volume Low Pressure (HVLP) spray equipment calibrated, operated and maintained in accordance with the manufacturer's specifications; and
- b) Clean all coating applicators with a device that:
  - 1) Recirculates solvent during the cleaning process;
  - 2) Collects spent solvent so it is available for disposal or recycling; and
  - 3) Minimizes evaporation of solvents during cleaning, rinsing, draining, and storage.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.786      Surface Preparation Materials

Every owner or operator of a motor vehicle refinishing operation only shall use surface preparation materials that never exceed the following VOM content limitations for the specified substrate:

	<u>kg/l</u>	<u>(lb/gal)</u>
a) <u>Plastic parts</u>	<u>0.78</u>	<u>(6.5)</u>
b) <u>Other substrates</u>	<u>0.17</u>	<u>(1.4)</u>

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.787 Work Practices

- a) Every owner or operator of a motor vehicle refinishing operation shall ensure that fresh and spent solvent, cloth or paper used to apply solvents for surface preparation or cleanup, waste paint, and sludge are stored in closed containers.
- b) Every owner or operator of a motor vehicle refinishing operation that is exempt from the equipment specifications in Section 219.784 of this Subpart because it uses less than 20 gallons of coating per year shall direct solvent used to clean coating applicator equipment and paint lines into a container for proper disposal or recycling.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.788 Testing

- a) Upon request by the Agency, the owner or operator of a motor vehicle refinishing operation shall, at its own expense, conduct tests to demonstrate compliance with Sections 219.780, 219.782 or 219.786 of this Subpart, in accordance with the applicable test methods and procedures specified in Section 219.105 of this Part and shall:
- 1) Notify the Agency 30 days prior to conducting such tests; and
  - 2) Submit all test results to the Agency within 45 days after conducting the requisite tests.
- b) For purposes of this Section, surface preparation materials shall be treated as coatings.

- c) Nothing in this Section shall limit the authority of USEPA pursuant to the Clean Air Act, as amended, to require testing, or shall affect the authority of USEPA under Section 114 of the Clean Air Act (42 U.S.C. 7414 (1990)).

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.789            Monitoring and Recordkeeping for Control Devices

- a) Every owner or operator of a motor vehicle refinishing operation that complies with this Subpart pursuant to Section 219.782 of this Subpart shall:
- 1) Install and operate equipment to continuously monitor each control device as specified in Section 219.105(d)(2)(A) of this Part;
  - 2) Keep records of parameters for control devices as monitored pursuant to subsection (a)(1) of this Section;
  - 3) Keep logs of operating time of the control device and monitoring equipment;
  - 4) Keep logs of maintenance of the control device and monitoring equipment; and
  - 5) Maintain all records required in this Section for the most recent consecutive three year period and make all such records available to the Agency immediately upon request.
- b) An owner or operator may monitor with an alternative method or monitor other parameters than specified in subsection (a)(1) of this Section, if approved by the Agency and USEPA through federally enforceable permit conditions.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.790            General Recordkeeping and Reporting

On and after the compliance date specified in Section 219.791 of this Subpart, every owner or operator of a motor vehicle refinishing operation shall maintain the following records for the most recent consecutive 3 years. Such records shall be made available to the Agency immediately upon request:

- a) The name and manufacturer of each coating and surface preparation product used at the source each month;
- b) The volume of each category of coating, as set forth in Section 219.780 of this Subpart, purchased by the source each month;
- c) The coating mixing instructions, as stated on the container, in literature supplied with the coating, or otherwise specified by the manufacturer, for each coating purchased by the source each month;
- d) The VOM content, expressed as weight of VOM per volume of coating, minus water and any compounds that are specifically exempted from the definition of VOM, recorded on a monthly basis for:
  - 1) Each coating as purchased, if the coating is not mixed with any additives prior to application on the substrate; or
  - 2) Each coating after mixing according to manufacturer's instructions as collected pursuant to subsection (c) of this Section;
- e) The weighted average VOM content of the coating, as specified in Section 219.780(d)(1), (d)(2) or (d)(3) of this Subpart, for each basecoat/clearcoat, and three or four stage coating system purchased by the source, recorded on a monthly basis;
- f) The total monthly volume of all specialty coatings purchased and the percentage specialty coatings comprise in the aggregate of all coatings purchased by the source each month;
- g) The volume of each category of surface preparation material, as set forth in Section 219.786 of this Subpart, purchased by the source each month; and
- h) The VOM content, expressed as weight of VOM per volume of material, including water, of each surface preparation material purchased by the source, recorded on a monthly basis.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.791                      Compliance Date

Every owner or operator of a motor vehicle refinishing operation shall comply with the requirements of this Subpart by March 15, 1996, upon modification or upon initial startup.

(Source: Added at 19 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.792          Registration

- a) Every owner or operator of a motor vehicle refinishing operation shall register with the Agency on or before the date specified in Section 219.791 of this Subpart and re-register no later than 45 days following the end of each subsequent calendar year. The following information shall be included in this registration:
- 1) The name and address of the source, and the name and telephone number of the person responsible for submitting the registration information;
  - 2) A description of all coating operations of motor vehicles, mobile equipment, or their parts or components, and all associated surface preparation operations at the source;
  - 3) A description of all coating applicators used at the source to comply with Section 219.784(a) of this Subpart, if applicable;
  - 4) A description of all cleanup operations at the source, including equipment used to comply with Section 219.784(b) of this Subpart, if applicable;
  - 5) A description of all work practices at the source used to comply with Section 219.787 of this Subpart;
  - 6) If a source claims to be exempt from the equipment requirements in Section 219.784 of this Subpart because it uses less than 20 gallons of coating per year, the owner's or operator's certification that the annual usage is below this level;
  - 7) A written declaration stating whether the source is complying with this Subpart by using coatings that comply with the applicable VOM content limits in Section 219.780 of this Subpart or by control equipment as specified in Section 219.782; and
  - 8) A description of any control devices used to comply with Section 219.782 of this Subpart and

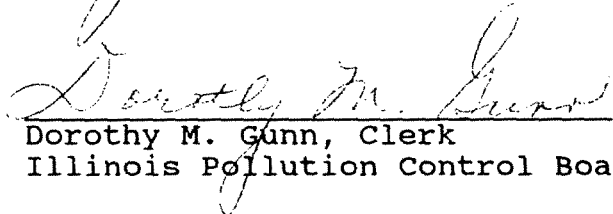
the date(s) the device was installed and became operational.

- b) At least 30 calendar days before changing the method of compliance to or from Sections 219.780 and 219.782, the owner or operator of a motor vehicle refinishing operation shall notify the Agency and certify that the source is in compliance with the applicable requirements for the new method of compliance.

(Source: Added at 19 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 30<sup>th</sup> day of April, 1995, by a vote of 7-0.

  
Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board