

ILLINOIS POLLUTION CONTROL BOARD  
June 5, 1997

IN THE MATTER OF: )  
)  
9% ROP PLAN CONTROL MEASURES ) R97-24  
FOR VOM EMISSIONS--TIGHTENING ) (Rulemaking - Air)  
COLD CLEANING REQUIREMENTS: )  
AMENDMENTS TO 35 ILL. ADM. CODE )  
PARTS 211, 218 AND 219, SUBPART E. )

Adopted Rule. Final Order.

OPINION AND ORDER OF THE BOARD (by J. Theodore Meyer):

On January 16, 1997, the Illinois Environmental Protection Agency (Agency) filed a proposal for rulemaking pursuant to Section 28.5 of the Illinois Environmental Protection Act (Act). (415 ILCS 5/1 *et seq.* (1994).) The proposal amends the Board's air regulations at 35 Ill. Adm. Code 211, 218 and 219 to include more stringent requirements for solvents sold or used in cold cleaning degreasers. On January 23, 1997 the Board accepted the proposal, granted the Agency's motion regarding incorporations by reference and directed this matter to hearing.

The Board today proceeds to final notice with this rulemaking and will discuss the procedural history of the rule, the amendments, Agency's proposal and all comments received by the Board. The Board will direct that the rule be filed with the Secretary of State for final adoption pursuant to the Administrative Procedure Act (APA). (5 ILCS 100/5-5 *et seq.* (1994).)

The Board's responsibility in this matter arises from the Act which charges the Board 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 upon the system of checks and balances integral to Illinois environmental governance: the Board bears the responsibility for the rulemaking and principal adjudicatory functions, while the Agency has primary responsibility for administration of the Act and the Board's regulations, including today's proposed regulation.

PROCEDURAL HISTORY

Since this proposal was filed pursuant to Section 28.5 of the Act, the Board is required to proceed under set time frames to adopt this regulation. Therefore, the Board adopted the first notice opinion and order on January 23, 1997 without commenting on the merits of the proposal. This proposal was published for first notice pursuant to the APA on February 18, 1997 at 21 Ill. Reg. 1754 (Part 211), 21 Ill. Reg. 1768 (Part 218) and 21 Ill. Reg. 1781 (Part 219). In response to the first notice publication, the Board received comments from the Joint

Committee on Administrative Rules (JCAR) regarding additional minor changes to the proposed rulemaking.

A public hearing was held before Hearing Officer K.C. Poulos in Chicago on March 4, 1997. The Agency presented the pre-filed testimony of Richard Forbes, Manager of the Ozone Regulatory Unit in the Air Quality Planning Section of the Agency's Bureau of Air, as well as the pre-filed testimony of Michael Rogers, an Environmental Protection Specialist in the Air Quality Planning Section of the Agency's Bureau of Air. (Exhibit 1.) Questions to the Agency were presented by representatives of the Chemical Industry Council of Illinois (CICI), Sunnyside Corporation (Sunnyside), Safety-Kleen Corporation (Safety-Kleen) and Cerro Copper Products Company (Cerro).

Having received no requests for another hearing, the second and third hearings in this matter were canceled by hearing officer order dated March 20, 1997. Final comments were due on March 30, 1997 and the Board received two public comments. The Board also received an Errata Sheet from the Agency.<sup>1</sup>

The Board adopted the second notice opinion and order on April 17, 1997 pursuant to the APA. JCAR reviewed the proposed rule and suggested minor changes which the Board has made. JCAR issued a certification of no objection on May 13, 1997. Having received the certification of no objection, the Board may now adopt the rule for final notice.

#### AMENDMENTS

The Board amendments add a definition for "electronic component" in Section 211.1885. Electronic component is defined as all portions of an electronic assembly, including, but not limited to, circuit board assemblies, printed wire assemblies, printed circuit boards, soldered joints, ground wires, bus bars, and associated electronic component manufacturing equipment such as screens and filters. The Board amendments also modify Sections 218.182 and 219.182 to limit the vapor pressures of solvents sold or used in cold cleaning degreasing operations.<sup>2</sup> Cold cleaning is defined as the process of cleaning and removing soils from surfaces by spraying, brushing, flushing or immersion while maintaining the organic solvent below its boiling point. (35 Ill. Adm. Code 211.1310.) The amendments limit the vapor pressure of solvents to 2.0 millimeters of mercury at 20° Centigrade, 68° Fahrenheit, beginning on March 15, 1999. Beginning March 15, 2001, the vapor pressure would be limited to 1.0 millimeters of mercury at the same temperature.

The amendments also include recordkeeping provisions which require solvent suppliers and users of solvents in cold cleaning operations to maintain documents for three years that indicate the solvent's vapor pressure at the prescribed temperature. Specifically, the suppliers

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<sup>1</sup> The transcript is cited as (Tr. at \_\_.); the public comments are cited as (P.C.# \_\_.) and the Agency's Errata Sheet is cited as (E.S. at \_\_.).

<sup>2</sup> Part 218 is applicable to the Chicago area; Part 219 is applicable to the Metro East Area (St. Louis). The amendments to each Part are identical.

of cold cleaning solvents must keep records of the name and address of the solvent purchaser, the date of purchase, the type of solvent purchased, the solvent unit quantity, the total volume purchased and the vapor pressure of the solvent, measured in millimeters at 20° Centigrade, 68° Fahrenheit. Solvent users must maintain records of the name and address of the solvent supplier, the date of purchase, the type of solvent and the vapor pressure of the solvent, measured in millimeters at 20° Centigrade, 68° Fahrenheit. These requirements apply to the sale of solvents in units greater than five gallons.

Finally, the Board amendments include an exemption in new Sections 218.182(g) and 219.182(g) for Detrex degreasers or other similar large-scale degreasing units which provide equal or greater emissions reductions than what is required under these rules.

### PROPOSAL

In support of its proposal the Agency filed a “Statement of Reasons” (Reasons) which indicates that Section 182(b)(1) of the Clean Air Act (CAA), as amended in 1990, (42 U.S.C. 7511a (b)(1)(A)) requires that by 1996, ozone nonattainment areas reduce emissions of volatile organic material (VOM) by 15% from 1990 levels. Section 182(c)(2)(B) of the CAA (42 U.S.C. 7511a (c)(2)(B)) further requires all ozone nonattainment areas rated as serious or above to achieve a 3% reduction of 1990 baseline emissions of VOM each year thereafter for three years until attainment is reached. (Reasons at 1.)

In Illinois, the Chicago and Metro-East St. Louis (Metro-East) areas are classified as “severe” and “moderate” ozone nonattainment areas respectively, and are subject to the 15% rate of progress (ROP) provisions of the CAA. The Chicago ozone nonattainment area is also subject to the 3% ROP reduction requirement, or a 9% total reduction for the year 1999. Although the Metro-East area is not immediately subject to the 3% ROP reduction requirement, the area is at risk of being elevated to the next higher classification, which would implicate the 3% ROP provisions. Furthermore, additional control measures will assist the area in reaching attainment of the ozone national ambient air quality standards (NAAQS). (Reasons at 2.)

The Agency states that in reviewing available control measures that could provide the necessary reductions, it has selected the measure that is the subject of this rulemaking, as well as the Emission Reduction Marketing System, which is the subject of another rulemaking currently before the Board. (See In the Matter of: Emissions Reduction Market System Adoption of 35 Ill. Adm. Code 205 and Amendments to 35 Ill. Adm. Code 106, R97-13.) (Reasons at 2.)

In addition to the Statement of Reasons filed with the proposal, the Agency presented the testimony of Richard Forbes, manager of the Ozone Regulatory Unit in the Air Quality Planning Section of the Agency’s Bureau of Air. The Agency also presented the testimony of Michael Rogers, an Environmental Protection Specialist in the Air Quality Planning Section of the Agency’s Bureau of Air. Mr. Rogers explained that cold cleaning degreaser operations occur in auto repair shops, car dealerships, machine shops and metal fabrication and

manufacturing businesses. Mr. Rogers stated that there are between 50,000 and 60,000 cold cleaning units in the Chicago area, and approximately 5,000 to 6,000 units in the Metro-East area. Mr. Rogers reported that about 32 tons per day of VOM emissions were emitted in 1990 in the Chicago area, and about 2.5 tons per day were emitted in the Metro-East area. (Tr. at 16-17.)

### ECONOMIC REASONABLENESS AND TECHNICAL FEASIBILITY

At hearing, Mr. Rogers stated that the phased-in compliance dates of the proposed vapor pressure limits will allow solvent users and suppliers to acquire and adjust to the use of the lower vapor pressure solvents. (Tr. at 18.) Mr. Rogers further stated that the lower vapor pressure solvents are already available on the market. Therefore, the Agency believes that its proposal is technically feasible.

In addition, the Agency estimates the total annual cost of the 1.0 millimeter mercury solvent in both nonattainment areas to be between \$1.8 million and \$6 million. Dividing the total estimated cost by the annual VOM emission reduction of 7,675 tons yields a cost effectiveness range of between \$238 and \$779 per ton. (Tr. at 21.) Therefore, Mr. Rogers stated, the Agency believes the proposed modifications are an economically reasonable means of obtaining the necessary VOM emission reductions in both nonattainment areas. (Tr. at 23.)

### COMMENTS

Several members of the public raised questions at hearing regarding the Agency's proposal. In addition, the Board received two public comments, the first from the Agency (P.C. #1) and the second from CICI (P.C. #2). This section will discuss the main issues and the Board's decisions made during second notice.

At hearing, Cerro questioned whether the Agency intended to create an exemption to the proposed modifications for Detrex degreasers or other substantially similar units. (Tr. at 28.) Mr. Rogers indicated that the Agency planned to create such an exemption. (Tr. at 28.) In its Errata Sheet, the Agency explained that Detrex degreasers, and other substantially similar, large-scale degreasing operations, are highly controlled and specialized operations which provide emissions reductions that are equivalent or more stringent than what it proposed in this rulemaking. The Agency stated that an exemption for these operations was necessary. The Agency also provided language for such an exemption. (E.S. at 1-2.)

The Board agreed with the Agency and Cerro that it is appropriate to exempt from this rulemaking Detrex degreasers or other similar large-scale degreasing units which provide equal or greater emissions reductions than what is otherwise required by this rulemaking. Accordingly, in its second notice opinion and order, the Board proposed the following language to be added in new Sections 218.182(g) and 219.182(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.

The second issue, raised by Sunnyside, questioned the reason for restricting the sale of solvents. The Agency stated that it is consistent with the Act and Board regulations to restrict the sale of certain products, and that other states also restrict sales to achieve compliance. (P.C.#1 at 1; *see also* 35 Ill. Adm. Code 218.561 and 219.561 which limit the sale of architectural coatings; 35 Ill. Adm. Code 219.585 which limits gasoline distribution.) In addition, the Agency stated that the supply requirements in its proposal are intended to increase the use of compliant products which will result in air quality benefit. (Tr. at 31.)

In its second notice opinion and order, the Board agreed with the Agency that the proposed control focuses on the source of emissions, the solvents, and targeting the sale of these solvents is a common regulatory approach in achieving compliance. Therefore, the Board declined to make any changes in the rules regarding this issue.

Sunnyside's next questions to the Agency concerned the supplier's responsibility and liability over a purchaser's inappropriate use of a product in cold cleaning degreasing. The Agency stated in its final comments that "[t]he maverick use of an atypical cold cleaning product will not automatically implicate the supplier if the supplier's compliance efforts reflect reasonable diligence. Reasonable efforts at complying with the rule's requirements not to sell or offer for sale noncomplying products could include a showing that these noncompliant products or product types would not normally be used in typical cold cleaning degreasing operations." (P.C.#1 at 2.) In its final comments, CICI pointed out that if a solvent is not normally used in cold cleaning degreaser operations, then its sale is not covered under this proposed regulation and therefore its ultimate use is irrelevant in terms of the supplier's liability. (P.C.#2 at 2.)

In an effort to further address the issue, the Hearing Officer requested comments regarding the feasibility of placing a warning on product labels or invoices. (Tr. at 43-45.) In its final comments, the Agency explained that a labeling requirement would not be feasible because it would be an overly broad burden on manufacturers that market their products on a region-wide or nation-wide basis. The Agency suggests that a statement concerning compliance with the degreaser regulation would accomplish the same objectives. (P.C.#1 at 3.) CICI also stated its opposition to a label or invoice requirement. (P.C.#2 at 3-4.)

In its second notice opinion and order, the Board agreed with the Agency that suppliers subject to the regulations in this rulemaking should make a diligent effort to ensure that they are in compliance, but pointed out that the intent of these rules is not to find a supplier liable for the "maverick use of an atypical" product in a cold cleaning degreasing operation. The Board concluded that it was unnecessary to modify the rules to address the use of atypical products in cold cleaning operations, or to require notice of this regulation on labels or invoices.

The final issue, raised by Safety-Kleen, concerned whether or not there was a specified method by which to measure vapor pressure. (Tr. at 42.) The Agency stated that the test method for determining vapor pressures is specified in 35 Ill. Adm. Code 218.110 and 219.110. The Board concluded that the methods by which vapor pressures are measured are adequately outlined in the regulations, and declined to make modifications in this area.

### DISCUSSION

The record before the Board indicates that the proposal will be an effective measure in achieving compliance with the 3% ROP reduction requirements of the Clean Air Act. The additional control measures in this proposal will also assist the Chicago and Metro-East areas in attaining the ozone national ambient air quality standards.

The Board further finds that the Agency's proposal is technically feasible in light of the phased-in approach for requiring the use of lower vapor pressure solvents, as well as the current availability of these lower vapor pressure solvents. The Board also finds the proposal to be economically reasonable because the estimated annual cost of the 1.0 millimeter mercury solvent is between \$238 and \$779 per ton in both nonattainment areas.

The Board received two public comments during first notice and the only comments from JCAR concerned minor grammatical and punctuation changes in the rule. In response to the comments received, the Board has added new Sections 218.182(g) and 219.182(g) to exempt Detrex degreasers, and other similar models that achieve equal or greater emissions reductions than what is required in this rulemaking. With these changes, the Board finds it appropriate to proceed to final notice with this rule.

### ORDER

The Board directs that the Clerk cause the filing of the following amendments with the Secretary of State for final notice publication in the Illinois Register and for inclusion in the Administrative Code:

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 Units

## 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 Purged 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
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
211.1780	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	<u>Electronic Component</u>
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
211.2290	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 (HVLP) 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
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
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

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].

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. \_\_\_\_, effective

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

## SUBPART B: DEFINITIONS

### Section 211.1885      Electronic Component

“Electronic Component” means, for the purposes of 35 Ill. Adm. Code 218.182(f) and 219.182(f), all portions of an electronic assembly, including, but not limited to, circuit board assemblies, printed wire assemblies, printed circuit boards, soldered joints, ground wires, bus bars, and associated electronic component manufacturing equipment such as screens and filters.

(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

### SUBPART A: GENERAL PROVISIONS

Section	
218.100	Introduction
218.101	Savings Clause
218.102	Abbreviations and Conversion Factors
218.103	Applicability

218.104	Definitions
218.105	Test Methods and Procedures
218.106	Compliance Dates
218.107	Operation of Afterburners
218.108	Exemptions, Variations, and Alternative Means of Control or Compliance Determinations
218.109	Vapor Pressure of Volatile Organic Liquids
218.110	Vapor Pressure of Organic Material or Solvents
218.111	Vapor Pressure of Volatile Organic Material
218.112	Incorporations by Reference
218.113	Monitoring for Negligibly-Reactive Compounds
218.114	Compliance with Permit Conditions

#### SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

##### Section

218.119	Applicability for VOL
218.120	Control Requirements for Storage Containers of VOL
218.121	Storage Containers of VPL
218.122	Loading Operations
218.123	Petroleum Liquid Storage Tanks
218.124	External Floating Roofs
218.125	Compliance Dates
218.126	Compliance Plan (Repealed)
218.127	Testing VOL Operations
218.128	Monitoring VOL Operations
218.129	Recordkeeping and Reporting for VOL Operations

#### SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

##### Section

218.141	Separation Operations
218.142	Pumps and Compressors
218.143	Vapor Blowdown
218.144	Safety Relief Valves

#### SUBPART E: SOLVENT CLEANING

##### Section

218.181	Solvent Cleaning in General
218.182	Cold Cleaning
218.183	Open Top Vapor Degreasing
218.184	Conveyorized Degreasing
218.185	Compliance Schedule (Repealed)

218.186 Test Methods

#### SUBPART F: COATING OPERATIONS

##### Section

218.204 Emission Limitations  
 218.205 Daily-Weighted Average Limitations  
 218.206 Solids Basis Calculation  
 218.207 Alternative Emission Limitations  
 218.208 Exemptions from Emission Limitations  
 218.209 Exemption from General Rule on Use of Organic Material  
 218.210 Compliance Schedule  
 218.211 Recordkeeping and Reporting  
 218.212 Cross-Line Averaging to Establish Compliance for Coating Lines  
 218.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines  
 218.214 Changing Compliance Methods

#### SUBPART G: USE OF ORGANIC MATERIAL

##### Section

218.301 Use of Organic Material  
 218.302 Alternative Standard  
 218.303 Fuel Combustion Emission Units  
 218.304 Operations with Compliance Program

#### SUBPART H: PRINTING AND PUBLISHING

##### Section

218.401 Flexographic and Rotogravure Printing  
 218.402 Applicability  
 218.403 Compliance Schedule  
 218.404 Recordkeeping and Reporting  
 218.405 Lithographic Printing: Applicability  
 218.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996  
 218.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996  
 218.408 Compliance Schedule for Lithographic Printing on and After March 15, 1996  
 218.409 Testing for Lithographic Printing On and After March 15, 1996  
 218.410 Monitoring Requirements for Lithographic Printing  
 218.411 Recordkeeping and Reporting for Lithographic Printing

#### SUBPART Q: SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

Section	
218.421	General Requirements
218.422	Inspection Program Plan for Leaks
218.423	Inspection Program for Leaks
218.424	Repairing Leaks
218.425	Recordkeeping for Leaks
218.426	Report for Leaks
218.427	Alternative Program for Leaks
218.428	Open-Ended Valves
218.429	Standards for Control Devices
218.430	Compliance Date (Repealed)
218.431	Applicability
218.432	Control Requirements
218.433	Performance and Testing Requirements
218.434	Monitoring Requirements
218.435	Recordkeeping and Reporting Requirements
218.436	Compliance Date

SUBPART R: PETROLEUM REFINING AND  
RELATED INDUSTRIES; ASPHALT MATERIALS

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

SUBPART S: RUBBER AND MISCELLANEOUS  
PLASTIC PRODUCTS

Section	
218.461	Manufacture of Pneumatic Rubber Tires
218.462	Green Tire Spraying Operations
218.463	Alternative Emission Reduction Systems
218.464	Emission Testing

- 218.465 Compliance Dates (Repealed)  
 218.466 Compliance Plan (Repealed)

#### SUBPART T: PHARMACEUTICAL MANUFACTURING

- Section  
 218.480 Applicability  
 218.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum Dryers  
 218.482 Control of Air Dryers, Production Equipment Exhaust Systems and Filters  
 218.483 Material Storage and Transfer  
 218.484 In-Process Tanks  
 218.485 Leaks  
 218.486 Other Emission Units  
 218.487 Testing  
 218.488 Monitoring for Air Pollution Control Equipment  
 218.489 Recordkeeping for Air Pollution Control Equipment

#### SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

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

#### SUBPART W: AGRICULTURE

- Section  
 218.541 Pesticide Exception

#### SUBPART X: CONSTRUCTION

Section	
218.561	Architectural Coatings
218.562	Paving Operations
218.563	Cutback Asphalt

#### SUBPART Y: GASOLINE DISTRIBUTION

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

#### SUBPART Z: DRY CLEANERS

Section	
218.601	Perchloroethylene Dry Cleaners
218.602	Applicability
218.603	Leaks
218.604	Compliance Dates (Repealed)
218.605	Compliance Plan (Repealed)
218.606	Exception to Compliance Plan (Repealed)
218.607	Standards for Petroleum Solvent Dry Cleaners
218.608	Operating Practices for Petroleum Solvent Dry Cleaners
218.609	Program for Inspection and Repair of Leaks
218.610	Testing and Monitoring
218.611	Applicability for Petroleum Solvent Dry Cleaners
218.612	Compliance Dates (Repealed)
218.613	Compliance Plan (Repealed)

#### SUBPART AA: PAINT AND INK MANUFACTURING

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

218.637 Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section

218.640 Applicability  
 218.642 Emissions Limitation at Polystyrene Plants  
 218.644 Emissions Testing

SUBPART CC: POLYESTER RESIN PRODUCT  
 MANUFACTURING PROCESS

Section

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

SUBPART DD: AEROSOL CAN FILLING

Section

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

SUBPART FF: BAKERY OVENS

Section

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

SUBPART GG: MARINE TERMINALS

Section

218.760 Applicability  
 218.762 Control Requirements

218.764	Compliance Certification
218.766	Leaks
218.768	Testing and Monitoring
218.770	Recordkeeping and Reporting

#### SUBPART HH: MOTOR VEHICLE REFINISHING

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

#### SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

Section	
218.920	Applicability
218.923	Permit Conditions (Repealed)
218.926	Control Requirements
218.927	Compliance Schedule
218.928	Testing

#### SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

Section	
218.940	Applicability
218.943	Permit Conditions (Repealed)
218.946	Control Requirements
218.947	Compliance Schedule
218.948	Testing

SUBPART RR: MISCELLANEOUS ORGANIC  
CHEMICAL MANUFACTURING PROCESSES

Section	
218.960	Applicability
218.963	Permit Conditions (Repealed)
218.966	Control Requirements
218.967	Compliance Schedule
218.968	Testing

SUBPART TT: OTHER EMISSION UNITS

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

SUBPART UU: RECORDKEEPING AND REPORTING

Section	
218.990	Exempt Emission Units
218.991	Subject Emission Units

Section 218.Appendix A:	List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing
Section 218.Appendix B:	VOM Measurement Techniques for Capture Efficiency
Section 218.Appendix C:	Reference Methods and Procedures
Section 218.Appendix D:	Coefficients for the Total Resource Effectiveness Index (TRE) Equation
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 1945, effective January 24, 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 \_\_\_\_\_ at \_\_\_ Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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

## SUBPART E: SOLVENT CLEANING

### Section 218.182 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<sup>o</sup> C (100<sup>o</sup> 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<sup>o</sup> C (100<sup>o</sup> 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 218.108 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 gallons, for use in cold cleaning degreasing operations located in the area covered by Section 218.103 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 gallons, for use in cold cleaning degreasing operations located in the area covered by Section 218.103 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 \_\_\_\_\_)

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

SUBPART A: GENERAL PROVISIONS

Section	
219.100	Introduction
219.101	Savings Clause
219.102	Abbreviations and Conversion Factors
219.103	Applicability
219.104	Definitions
219.105	Test Methods and Procedures
219.106	Compliance Dates
219.107	Operation of Afterburners
219.108	Exemptions, Variations, and Alternative Means of Control or Compliance Determinations
219.109	Vapor Pressure of Volatile Organic Liquids
219.110	Vapor Pressure of Organic Material or Solvents
219.111	Vapor Pressure of Volatile Organic Material
219.112	Incorporations by Reference
219.113	Monitoring for Negligibly-Reactive Compounds

SUBPART B: ORGANIC EMISSIONS FROM STORAGE  
 AND LOADING OPERATIONS

Section	
219.119	Applicability for VOL
219.120	Control Requirements for Storage Containers of VOL
219.121	Storage Containers of VPL
219.122	Loading Operations
219.123	Petroleum Liquid Storage Tanks
219.124	External Floating Roofs
219.125	Compliance Dates
219.126	Compliance Plan (Repealed)

- 219.127 Testing VOL Operations
- 219.128 Monitoring VOL Operations
- 219.129 Recordkeeping and Reporting for VOL Operations

### SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

- Section
- 219.141 Separation Operations
- 219.142 Pumps and Compressors
- 219.143 Vapor Blowdown
- 219.144 Safety Relief Valves

### SUBPART E: SOLVENT CLEANING

- Section
- 219.181 Solvent Cleaning in General
- 219.182 Cold Cleaning
- 219.183 Open Top Vapor Degreasing
- 219.184 Conveyorized Degreasing
- 219.185 Compliance Schedule (Repealed)
- 219.186 Test Methods

### SUBPART F: COATING OPERATIONS

- Section
- 219.204 Emission Limitations
- 219.205 Daily-Weighted Average Limitations
- 219.206 Solids Basis Calculation
- 219.207 Alternative Emission Limitations
- 219.208 Exemptions From Emission Limitations
- 219.209 Exemption From General Rule on Use of Organic Material
- 219.210 Compliance Schedule
- 219.211 Recordkeeping and Reporting
- 219.212 Cross-Line Averaging to Establish Compliance for Coating Lines
- 219.213 Recordkeeping and Reporting for Cross-Line Averaging Participating Coating Lines
- 219.214 Changing Compliance Methods

### SUBPART G: USE OF ORGANIC MATERIAL

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

219.304 Operations with Compliance Program

#### SUBPART H: PRINTING AND PUBLISHING

##### Section

- 219.401 Flexographic and Rotogravure Printing
- 219.402 Applicability
- 219.403 Compliance Schedule
- 219.404 Recordkeeping and Reporting
- 219.405 Heatset Web Offset Lithographic Printing
- 219.405 Lithographic Printing: Applicability
- 219.406 Provisions Applying to Heatset Web Offset Lithographic Printing Prior to March 15, 1996
- 219.407 Emission Limitations and Control Requirements for Lithographic Printing Lines On and After March 15, 1996
- 219.408 Compliance Schedule for Lithographic Printing on and After March 15, 1996
- 219.409 Testing for Lithographic Printing On and After March 15, 1996
- 219.410 Monitoring Requirements for Lithographic Printing
- 219.411 Recordkeeping and Reporting for Lithographic Printing

#### SUBPART Q: LEAKS FROM SYNTHETIC ORGANIC CHEMICAL AND POLYMER MANUFACTURING PLANT

##### Section

- 219.421 General Requirements
- 219.422 Inspection Program Plan for Leaks
- 219.423 Inspection Program for Leaks
- 219.424 Repairing Leaks
- 219.425 Recordkeeping for Leaks
- 219.426 Report for Leaks
- 219.427 Alternative Program for Leaks
- 219.428 Open-Ended Valves
- 219.429 Standards for Control Devices
- 219.430 Compliance Date (Repealed)
- 219.431 Applicability
- 219.432 Control Requirements
- 219.433 Performance and Testing Requirements
- 219.434 Monitoring Requirements
- 219.435 Recordkeeping and Reporting Requirements
- 219.436 Compliance Date

#### SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

Section	
219.441	Petroleum Refinery Waste Gas Disposal
219.442	Vacuum Producing Systems
219.443	Wastewater (Oil/Water) Separator
219.444	Process Unit Turnarounds
219.445	Leaks: General Requirements
219.446	Monitoring Program Plan for Leaks
219.447	Monitoring Program for Leaks
219.448	Recordkeeping for Leaks
219.449	Reporting for Leaks
219.450	Alternative Program for Leaks
219.451	Sealing Device Requirements
219.452	Compliance Schedule for Leaks
219.453	Compliance Dates (Repealed)

#### SUBPART S: RUBBER AND MISCELLANEOUS PLASTIC PRODUCTS

Section	
219.461	Manufacture of Pneumatic Rubber Tires
219.462	Green Tire Spraying Operations
219.463	Alternative Emission Reduction Systems
219.464	Emission Testing
219.465	Compliance Dates (Repealed)
219.466	Compliance Plan (Repealed)

#### SUBPART T: PHARMACEUTICAL MANUFACTURING

Section	
219.480	Applicability
219.481	Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum Dryers
219.482	Control of Air Dryers, Production Equipment Exhaust Systems and Filters
219.483	Material Storage and Transfer
219.484	In-Process Tanks
219.485	Leaks
219.486	Other Emission Units
219.487	Testing
219.488	Monitoring for Air Pollution Control Equipment
219.489	Recordkeeping for Air Pollution Control Equipment

#### SUBPART V: BATCH OPERATIONS AND AIR OXIDATION PROCESSES

Section

219.500	Applicability for Batch Operations
219.501	Control Requirements for Batch Operations
219.502	Determination of Uncontrolled Total Annual Mass Emissions and Actual Weighted Average Flow Rate Values for Batch Operations
219.503	Performance and Testing Requirements for Batch Operations
219.504	Monitoring Requirements for Batch Operations
219.505	Reporting and Recordkeeping for Batch Operations
219.506	Compliance Date
219.520	Emission Limitations for Air Oxidation Processes
219.521	Definitions (Repealed)
219.522	Savings Clause
219.523	Compliance
219.524	Determination of Applicability
219.525	Emission Limitations for Air Oxidation Processes (Renumbered)
219.526	Testing and Monitoring
219.527	Compliance Date (Repealed)

#### SUBPART W: AGRICULTURE

Section	
219.541	Pesticide Exception

#### SUBPART X: CONSTRUCTION

Section	
219.561	Architectural Coatings
219.562	Paving Operations
219.563	Cutback Asphalt

#### SUBPART Y: GASOLINE DISTRIBUTION

Section	
219.581	Bulk Gasoline Plants
219.582	Bulk Gasoline Terminals
219.583	Gasoline Dispensing Operations - Storage Tank Filling Operations
219.584	Gasoline Delivery Vessels
219.585	Gasoline Volatility Standards
219.586	Gasoline Dispensing Operations - Motor Vehicle Fueling Operations (Repealed)

#### SUBPART Z: DRY CLEANERS

Section	
219.601	Perchloroethylene Dry Cleaners
219.602	Exemptions
219.603	Leaks

219.604	Compliance Dates (Repealed)
219.605	Compliance Plan (Repealed)
219.606	Exception to Compliance Plan (Repealed)
219.607	Standards for Petroleum Solvent Dry Cleaners
219.608	Operating Practices for Petroleum Solvent Dry Cleaners
219.609	Program for Inspection and Repair of Leaks
219.610	Testing and Monitoring
219.611	Exemption for Petroleum Solvent Dry Cleaners
219.612	Compliance Dates (Repealed)
219.613	Compliance Plan (Repealed)

SUBPART AA: PAINT AND INK MANUFACTURING

Section	
219.620	Applicability
219.621	Exemption for Waterbase Material and Heatset-Offset Ink
219.623	Permit Conditions
219.624	Open-Top Mills, Tanks, Vats or Vessels
219.625	Grinding Mills
219.626	Storage Tanks
219.628	Leaks
219.630	Clean Up
219.636	Compliance Schedule
219.637	Recordkeeping and Reporting

SUBPART BB: POLYSTYRENE PLANTS

Section	
219.640	Applicability
219.642	Emissions Limitation at Polystyrene Plants
219.644	Emissions Testing

SUBPART FF: BAKERY OVENS

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

SUBPART GG: MARINE TERMINALS

Section

219.760	Applicability
219.762	Control Requirements
219.764	Compliance Certification
219.766	Leaks
219.768	Testing and Monitoring
219.770	Recordkeeping and Reporting

#### SUBPART HH: MOTOR VEHICLE REFINISHING

Section	
219.780	Emission Limitations
219.782	Alternative Control Requirements
219.784	Equipment Specifications
219.786	Surface Preparation Materials
219.787	Work Practices
219.788	Testing
219.789	Monitoring and Recordkeeping for Control Devices
219.790	General Recordkeeping and Reporting
219.791	Compliance Date
219.792	Registration
219.875	Applicability of Subpart BB (Renumbered)
219.877	Emissions Limitation at Polystyrene Plants (Renumbered)
219.879	Compliance Date (Repealed)
219.881	Compliance Plan (Repealed)
219.883	Special Requirements for Compliance Plan (Repealed)
219.886	Emissions Testing (Renumbered)

#### SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT MANUFACTURING PROCESSES

Section	
219.920	Applicability
219.923	Permit Conditions
219.926	Control Requirements
219.927	Compliance Schedule
219.928	Testing

#### SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

Section	
219.940	Applicability
219.943	Permit Conditions
219.946	Control Requirements
219.947	Compliance Schedule

219.948 Testing

SUBPART RR: MISCELLANEOUS ORGANIC  
CHEMICAL MANUFACTURING PROCESSES

Section

219.960 Applicability  
219.963 Permit Conditions  
219.966 Control Requirements  
219.967 Compliance Schedule  
219.968 Testing

SUBPART TT: OTHER EMISSION UNITS

Section

219.980 Applicability  
219.983 Permit Conditions  
219.986 Control Requirements  
219.987 Compliance Schedule  
219.988 Testing

SUBPART UU: RECORDKEEPING AND REPORTING

Section

219.990 Exempt Emission Units  
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 SOCMR Reactors and Distillation Units  
APPENDIX H: Baseline VOM Content Limitations for Subpart F, Section 219.212

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. \_\_\_\_\_, 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 218.103 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 218.103 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.

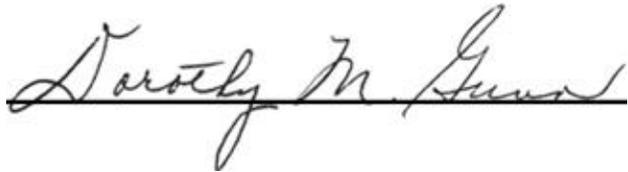
- g) Any cold cleaning taking place in a Detrex cold batch degreaser Model #2D-CC-SPL Size 24-4-10, or substantial equivalent, including automated loading of parts, totally enclosed operation (excluding loading and unloading) and permitted by the Agency, is exempt from the requirements of subsection (c) of this Section.

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

IT IS SO ORDERED.

Section 41 of the Environmental Protection Act (415 ILCS 5/41 (1994)) provides for the appeal of final Board orders to the Illinois Appellate Court within 35 days of the date of service of this order. The Rules of the Supreme Court of Illinois establish filing requirements. (See also 35 Ill. Adm. Code 101.246 "Motions for Reconsideration.")

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above opinion and order was adopted on the 5th day of June, 1997, by a vote of 7-0.

A handwritten signature in cursive script, reading "Dorothy M. Gunn", written over a solid horizontal line.

Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board