

ILLINOIS POLLUTION CONTROL BOARD  
September 21, 2006

IN THE MATTER OF: )  
)  
ORGANIC MATERIAL EMISSION ) R06-21  
STANDARDS AND LIMITATIONS FOR ) (Rulemaking – Air)  
THE CHICAGO AND METRO-EAST )  
AREAS: PROPOSED AMENDMENTS TO )  
35 ILL. CODE 218 AND 219 )

Proposed Rule. First Notice.

OPINION AND ORDER OF THE BOARD (by T.E. Johnson):

Today the Board will proceed to first notice under the Illinois Administrative Procedure Act (5 ILCS 100/1-1 *et seq.* (2004)) with a rulemaking proposed by the Illinois Environmental Protection Agency (Agency) on December 22, 2005. The Agency proposes amendments to Parts 218 and 219 of the volatile organic material (VOM) rules to allow for the use of add-on controls as a compliance option for operations using cold cleaning solvent degreasing. The proposed amendments affect cold cleaning degreasing operations located in the Chicago and Metro-East ozone nonattainment areas.

**BACKGROUND**

Solvent cleaning, or degreasing as it is commonly called, is a process using aqueous liquids or non-aqueous organic solvents to clean and remove soils from surfaces. Proposal (Prop.) at 2. Solvent cleaning is divided into three major types: cold cleaning; open-top vapor degreasing; and conveyORIZED degreasing. *Id.* Evaporation of the solvent used during degreasing results in VOM emissions that react with other pollutants such as nitrogen oxide and carbon monoxide to form ozone. *Id.*

In 1997, as a part of the 9% Rate of Progress (ROP) plan, the Board adopted control measures proposed by the Agency to reduce VOM emissions for cold cleaning degreaser operations in the Chicago and Metro-East ozone nonattainment areas. Prop. at 3. These measures, which are codified at 35 Ill. Adm. Code 218.182 and 219.182, lowered the allowed solvent vapor pressure for operations in the Chicago and Metro-East areas to 2.0 millimeters of mercury (mmHg) by 1999 and 1.0 mmHg by 2001. *Id.* The Agency estimated that the implementation of the lower vapor pressure would result in a VOM emission reduction of 11.35 tons per day by 1999 and an additional 11.68 tons per day by 2001. The 1997 ROP regulations do not allow the use add-on controls for cold cleaning degreasers as an alternative to complying with the solvent vapor limit.

Diversapack, a printing company that recycles its solvents in a totally enclosed parts washer and uses add-on controls for the abatement of process emissions, contacted the Agency in May 2003, regarding a possible variance from the vapor pressure limits at 35 Ill. Adm. Code

218.182(c). Prop. at 2. Diversapack uses solvents compatible with its printing operations, but which do not meet the current vapor pressure requirements. *Id.* The Agency identified three additional point sources in the Chicago area that use add-on controls plus solvents that do not meet the lower vapor pressure limits. *Id.*

In lieu of the site-specific rulemakings for each of the identified facilities, the Agency is proposing revisions to 35 Ill. Adm. Code 218 and 219. Prop. at 2. Specifically, the Agency proposes revising Sections 218.182 and 219.182 to allow for add-on controls or equivalent alternative control plans as compliance options, as well as additional revisions concerning solvent sale, solvent use, add-on control testing, and recordkeeping requirements. *Id.* at 3.

The Agency notes that currently an 8-hour ozone National Ambient Air Quality Standard (NAAQS) is in effect for the Chicago and the Metro-East areas, designating each as a moderate ozone nonattainment area. Prop. at 3. This 8-hour ozone NAAQS replaced the previous 1-hour standard on June 15, 2005. However, given that the United States Environmental Protection Agency (USEPA) has a policy against regression, the control measures adopted to meet the 1-hour standard must still be maintained. *Id.* at 4. Further, under the federal Clean Air Act and the USEPA State Implementation Plan (SIP), failure to obtain equivalent emissions reductions from the cold cleaning sources would require the Agency to make up the deficiency through the implementation of contingency control measures. *Id.* at 3-4. In this regard, according to the Agency, USEPA has indicated that the 95% control level proposed here is sufficient for this emissions source category. *Id.* at 4.

Two hearings were held before Board Hearing Officer John Knittle. The first hearing was held on April 19, 2006, in Chicago (Tr.1). The second hearing was held on May 17, 2006, in Edwardsville (Tr.2). During those hearings, the Board heard the testimony of Gary E. Beckstead from the Agency's Bureau of Air. In addition, the Board has received two public comments in this proceeding.

As required by Section 27(b) of the Environmental Protection Act (Act) (415 ILCS 5/27(b) (2004)), the Board requested that the Department of Commerce and Economic Opportunity (DCEO) conduct an economic impact study (EcIS) on this rulemaking. The Board's EcIS request, dated February 22, 2006, was placed in this rulemaking's docket. DCEO did not respond to the Board's request. At the second hearing, the hearing officer noted the Board's EcIS request to DCEO and DCEO's lack of response, affording anyone the opportunity to testify. No one testified about DCEO's lack of response. Tr.2 at 5-6.

### **SUMMARY OF PROPOSAL**

The Agency's proposal, as amended by Agency *errata* sheets 1 (ES1) and 2 (ES2), seeks to revise the Board's cold cleaning degreaser rules applicable to facilities in the Chicago and Metro-East ozone nonattainment areas. The proposed revisions would allow the use of add-on controls as an alternative to using solvents with vapor pressure of 1.0 mmHg or less. Likewise, the proposal also would allow the use of an equivalent alternative control plan to comply with the control measure requirements. In addition, the proposal would provide the testing procedures and recordkeeping requirements for add-on controls and equivalent alternative controls.

While the proposal would make parallel changes to 35 Ill. Adm. Code 218.182(c) and (d) and 219.182(c) and (d), only changes to Section 218.182 are described in this summary. Prop. at 5. The Agency's proposal seeks to add a new subsection at Section 218.182(c)(3)(A) that would allow the sale of solvents with vapor pressure greater than 1.0 mmHg in units greater than five gallons, but only if the purchaser provides a copy of a valid state or federal construction or operating permit or a copy of a *Federal Register* notice demonstrating that the source is in compliance with the add-on control requirements, or is exempt. *Id.* The proposed provision at Section 218.182(c)(3)(B) would allow the operation of a cold cleaning degreaser using a solvent with a vapor pressure greater than 1.0 mmHg, but only if the source is in compliance with the add-on control requirements or is exempt.

The proposal would set forth control requirements for add-on controls at Section 218.182(c)(4). Prop. at 5. Subsection (c)(4)(A) would require sources using solvents with vapor pressures greater than 1.0 mmHg but less than 56 mmHg to control their emissions to an overall capture and control efficiency of no less than 95%. *Id.* at 6; ES2. The requirements for equivalent alternative emissions control plans would be set forth at Section 218.182(c)(4)(B). These requirements would stipulate that emissions from a solvent with a vapor pressure of 1.0 mmHg shall be the basis for assessment of equivalent emissions for any proposed control plan. Further, if used as an equivalent alternative control plan, an add-on control must have at least 95% reduction in VOM emissions. Prop. at 7; ES2.

Provisions would also be added mandating the testing of add-on controls at Section 218.182(c)(4)(C). Prop. at 7. Currently operating add-on controls would have to be tested by March 1, 2007, and newly constructed add-on controls would have to be tested within 90 days after startup. *Id.* The testing procedures, monitoring, and recordkeeping provisions for add-on controls and equivalent alternative control plans would be consistent with the provisions in Section 218.105 and Section 219.105, which require that the control devices be operated and maintained at the manufacturer's specifications and continuously monitored to assure that they are operating at the required compliance levels. Finally, recordkeeping and reporting requirements applicable to the operation of add-on controls would be set forth under Section 218.182(d). All records would have to be kept for a minimum of three years. *Id.*

The Agency's proposal, including its statement of reasons, is available through the Clerk's Office in Chicago (312-814-3620) and on the Board's Web site ([www.ipcb.state.il.us](http://www.ipcb.state.il.us)) using the Clerk's Office On-Line or "COOL."

### **TESTIMONY**

At the hearings, the Board received testimony from Agency witness Gary E. Beckstead.<sup>1</sup> Beckstead is the Manager of the Regulatory Unit in the Air Quality Planning Section of the Agency's Bureau of Air. Beckstead at 1. He has worked in the field of regulatory rulemakings with Agency since 1991. Beckstead holds a Bachelor of Ceramic Engineering degree from

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<sup>1</sup> The Agency prefiled the written testimony of Beckstead on March 13, 2006 (cited as "Beckstead at \_") and his supplemental testimony on May 12, 2006 (cited as "Supp. Test. at \_").

Georgia Institute of Technology, and a Master of Science degree in Applied Earth Sciences from Stanford University. *Id.* Beckstead was involved in the development of the Agency's proposed amendments and was responsible for preparing the Agency's Technical Support Document, which was included as an exhibit to Beckstead's March 13, 2006 prefiled testimony. *Id.*

Beckstead testified that the proposed provisions for add-on controls would result in less VOM emissions than if solvents meeting the currently required vapor pressure limits were used. Beckstead at 2. According to Beckstead, meeting the control efficiency level recommended in the proposed amendments will assure the integrity of the 1999 – 2002 ROP Plan and will prevent the need for contingency measures to be implemented to makeup for any emission reduction deficiencies, as required by the federal Clean Air Act as amended in 1990. *Id.*

Four cold cleaning sources, Beckstead stated, were identified in the 2003 annual emissions reports data as using solvents with vapor pressures greater than the 1.0 mmHg limit. Beckstead at 4. He noted that all four are in the Chicago ozone nonattainment area and all of them are capturing 100% of their cold cleaning emissions and controlling the emissions to at least a 95% level. *Id.*

Elaborating, Beckstead testified that in May 2003, the Agency was contacted by Diversapack, a printing source located in the Chicago nonattainment area, which was interested in obtaining a variance to use solvents with vapor pressures of 55.19 mmHg and a control system with overall capture and control of 98%. Diversapack also informed the Agency that its sister company, Printpack, is using a similar solvent and control system. Beckstead at 5. Through an inventory search, the Agency identified two additional sources that were also using add-on controls and solvents with vapor pressures greater than 1.0 mmHg. *Id.* Based on this information, the Agency decided that a revision to the cold cleaning regulations was more practical and a better use of resources than having each of these sources seek individual variances from the Board. *Id.*

Beckstead testified that costs and inefficiencies would occur if the impacted sources were required to convert to the low-vapor pressure solvents. Beckstead at 6. He asserted that quality problems in printing and varnishing processes would be prevalent, increased waste would be created, and more supplemental fuel would be needed to operate the add-on controls. *Id.* Beckstead testified that the Agency believes that the proposed control level of 95% is reasonable and economically feasible for sources wishing to use add-on controls as an option to the solvent vapor pressure limits. *Id.* at 7-8. He testified that the four identified sources using add-on controls are in compliance with the proposed option, which he stated would eliminate the need for them to file variance petitions with the Board. *Id.* Further, he testified that the emissions from sources using add-on controls and solvents with vapor pressures greater than the prescribed limit are less than if the sources used solvents with the prescribed vapor pressures and no add-on controls. *Id.* He asserted that the proposed changes to the cold cleaning regulation have been reviewed by the impacted sources and USEPA and have been found acceptable by them. *Id.*

In his supplemental prefiled testimony submitted on May 12, 2006, Beckstead stated that the Agency will assess pollution prevention control measures on equal footing with any other proposed equivalent alternative control measures. Supp. Test. at 9. Beckstead testified that if

VOM emissions to the atmosphere are equal to or less than using 1.0 mmHg vapor pressure materials, the proposed pollution prevention control measure will be approvable by the Agency, and that there is no formal requirement in the proposed revisions that pollution prevention control measures be evaluated. *Id.*

Beckstead also testified that the Agency does not require sources to demonstrate cost effectiveness via studies for control measures that they are planning to implement, but that the Agency assesses the source's compliance with the regulations and determines if the source is meeting the proposed emission limits. Supp. Test. at 10.

Beckstead stated that the Agency is proposing: (1) that existing add-on controls be considered those operating before November 30, 2006; (2) that existing add-on controls be tested by March 1, 2007; and (3) that new add-on controls be considered those constructed on or after November 30, 2006; and (4) that new add-on controls be tested within 90 days after initial start-up. Supp. Test. at 10-11. In its May 12, 2006 second supplemental statement, and at the second hearing, the Agency asserted that it does not intend the proposal to be retroactive, and that this position is reflected in *errata* sheet number two. Supplemental Statement 2 at 1; Tr.2 at 23.

### **PUBLIC COMMENTS**

Two public comments were filed in this rulemaking: the Illinois Environmental Regulatory Group (IERG) filed a comment in support of the proposal (PC 1) on June 14, 2006; and the Agency filed a post-hearing comment (PC 2) on June 15, 2006. The comments are summarized below.

### **IERG**

IERG is a not-for-profit Illinois corporation comprised of 55 member companies engaged in industry, commerce, manufacturing, agriculture, trade, transportation, or other related activities regulated by governmental agencies that promulgate, administer, or enforce environmental laws, regulations, rules, or other policies. PC 1 at 1. IERG asserts that a number of IERG member companies conduct activities governed by the regulations set forth in 35 Ill. Adm. Code Parts 218 and 219. *Id.*

IERG asserts that it reviewed the proposed rulemaking in this proceeding and raised a few minor points of clarification with the Agency that have subsequently been addressed in Agency *errata* sheets. With those clarifications, IERG believes that the proposed amendments to the cold cleaning degreaser requirements should be adopted. PC 1 at 2. IERG asserts that this proposed rulemaking rightly restores the option of add-on controls and adds the equivalent alternative control plan option, while remaining consistent with the intent of the 1997 revisions to reduce VOM emissions in the nonattainment areas. *Id.* at 3.

Finally, IERG opines that the compliance options provided by this rulemaking are justified historically, environmentally, technically, and economically. PC 1 at 5. Therefore, IERG urges the Board to adopt the proposed revisions to the cold cleaning requirements. *Id.*

### **The Agency**

In response to the Board's questions pertaining to outreach to solvent retailers during the first hearing held on April 19, 2006, the Agency asserts that it conducted an additional outreach effort directed towards retailers of solvent. At the request of the Board, the Agency reports that the May 15, 2006 outreach effort resulted in one association requesting to be added to the Agency's mailing list for future related proposed rulemakings. PC 2 at 1. With the Agency's public comment, the Agency also moved to correct the second hearing's transcript. The Board grants that unopposed motion.

### **DISCUSSION**

The Board has held two days of public hearings and received substantial testimony and public comments on this proposal. The entire record, including the additional language changes suggested by the Agency, has been evaluated. The first-notice proposal adopted by the Board today reflects the Board's consideration of all the comments and testimony the Board has received.

The information presented by the Agency indicates that in the cases of both add-on controls and equivalent alternative control plans, the Agency is proposing additional options to supplement the technically feasible low vapor pressure solvent requirement already in place. The Board agrees with the Agency's assertion that the technical feasibility of add-on controls for point source cold cleaning degreasers is already being demonstrated.

In addition, by allowing the use of add-on controls, waste can be minimized as solvent may be reused. In printing operations, the clean-up solvents from the closed-loop parts cleaners are recycled for use in the printing process or for additional clean-up, reducing solvent waste, solvent purchases, and operating costs. Technical Support Document (TSD) at 13. The Board concurs with the Agency's assertion in its TSD that requiring the impacted printing sources to use low vapor pressure solvents would result in the generation of additional hazardous waste, product quality issues, and inefficiencies. *Id.* at 14.

The economic reasonableness analysis indicates that add-on controls coupled with closed loop automatic parts washers offer cost benefits comparable to converting to low vapor pressure solvents for some cold cleaning operations. Using data supplied by the four impacted sources, the estimated cost effectiveness of using thermal oxidizers as an add-on control is between \$115-\$562 per ton of VOM reduced. The cost effectiveness of lowering the solvent vapor pressure limits to 1.0 mmHg was estimated to be in the range of \$238 to \$779. TSD at 14.

Further, the Board agrees with the Agency that additional costs and inefficiencies would occur if these existing sources are required to use the low vapor pressure solvents. The additional costs would include the higher cost of low vapor pressure solvents and waste disposal costs. For example, using low vapor pressure solvent that could not be reused in other plant operations would result in additional waste disposal costs of an estimated \$161,000 per year in the case of Diversapack. In addition, Diversapack estimates that using a lower vapor pressure solvent would result in further solvent costs of \$1,100,000 per year.

The testimony provided by Beckstead at the April 19, 2006 hearing indicates that the emissions from sources using add-on controls for solvents with vapor pressures *greater* than the currently required limit would be less than the emissions that would result if the sources used solvents with the currently required vapor pressures (and no add-on controls). Tr.1 at 10. Thus, these proposed amendments provide a benefit to the environment as well.

Finally, on May 4, 2006, after two public hearings, the Board in consolidated rulemaking docket R04-12/20 adopted other Agency-proposed amendments to Parts 218 and 219, finding them both technically feasible and economically reasonable. The rule changes, which became effective on May 15, 2006, were designed to clarify, correct, streamline, and update numerous provisions of the air pollution control rules. *See Clean-Up Part III Amendments to 35 Ill. Adm. Code Parts 211, 218, and 219, R04-20, Technical Corrections to Formulas in 35 Ill. Adm. Code 214 "Sulfur Limitations", R04-12 (cons.) (May 4, 2006).* Among those revisions, the Board adopted the following amendments to the "paper coating" note at Sections 218.204(c) and 219.204(c):

Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which flexographic or rotogravure printing is performed if the paper coating line complies with the emissions limitations in Subpart H: Printing and Publishing, Section 218.401 [219.401] of this Part. In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part.

At second notice of the R04-12/20 rulemaking, the Board stated:

IEPA proposed the revisions to the note under "paper coating" in Sections 218.204(c) and 219.204(c). The Board observes that the same paper coating note also appears in Parts 218 and 219, Appendix H, however, no revisions were proposed for those notes. Those appendices were therefore never opened in this rulemaking. This appears to be an oversight. Because this rulemaking is proceeding today to second notice, the Board is not in a position to now open any rule sections that were not part of the first-notice publication. In the interest of administrative economy, the Board will propose amending the notes to these appendices in another pending air rulemaking filed by IEPA that has not yet been to first notice: R06-21, Organic Material Emissions Standards and Limitations for the Chicago and Metro-East Areas: Proposed Amendments to 35 Adm. Code 218 and 219. *See Clean-Up Part III Amendments to 35 Ill. Adm. Code Parts 211, 218, and 219, R04-20, Technical Corrections to Formulas in 35 Ill. Adm. Code 214 "Sulfur Limitations", R04-12 (cons.) (Mar. 2, 2006).*

Accordingly, to ensure consistency with the already-amended "paper coating" note at Sections 218.204(c) and 219.204(c), the Board now proposes for first notice those previously omitted amendments to the "paper coating" note at Appendix H in Parts 218 and 219. In support, the Board on its own motion incorporates by reference the R04-12/20 record into this R06-21 proceeding. *See 35 Ill. Adm. Code 101.306.*

## CONCLUSION

The Board finds that the Agency's proposal, as amended by Agency *errata* sheets 1 and 2, is technically feasible and economically reasonable. The Board makes several minor, clarifying changes to the Agency's proposed rule language, none of which merit discussion. As discussed above, the Board also proposes amendments to the "paper coating" note at Appendix H in Parts 218 and 219, which amendments were inadvertently not made in R04-12/20.

The Board will proceed to first notice with the proposal. The Board will accept additional public comments for at least 45 days from the date on which this first-notice proposal is published in the *Illinois Register*.

## ORDER

The Board directs the Clerk to cause first-notice publication of the following proposed amendments in the *Illinois Register*. Proposed additions to Parts 218 and 219 are underlined; proposed deletions appear stricken.

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 Solvent
218.111	Vapor Pressure of Volatile Organic Material
218.112	Incorporations by Reference
218.113	Monitoring for Negligibly-Reactive Compounds

218.114 Compliance with Permit Conditions

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section

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
218.215	Wood Furniture Coating Averaging Approach
218.216	Wood Furniture Coating Add-On Control Use
218.217	Wood Furniture Coating Work Practice Standards

#### 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  
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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 (Repealed)
218.602	Applicability (Repealed)
218.603	Leaks (Repealed)
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
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#### 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 (REPEALED)

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

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218.760	Applicability
218.762	Control Requirements
218.764	Compliance Certification
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#### SUBPART HH: MOTOR VEHICLE REFINISHING

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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 (Repealed)
218.791	Compliance Date
218.792	Registration
218.875	Applicability of Subpart BB (Renumbered)
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**AUTHORITY:** Implementing Section 10 and authorized by Sections 27, 28, 28.5 of the Environmental Protection Act [415 ILCS 5/10 and 28.5].

**SOURCE:** Adopted at R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13564, effective August 24, 1992; amended in R91-28 and R91-30 at 16 Ill.

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

#### 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°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 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 and Control 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).

3) On and after November 30, 2006, 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, unless the purchaser provides a copy of a valid state or federal construction or operating permit or a copy of the Federal Register demonstrating that the purchaser is in compliance with the control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.
- 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), unless the person is in compliance with the control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.

4) Control Requirements:

- A) A person may operate a cold cleaning degreaser using solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) but less than 56 mmHg (1.064 psi) measured at 20° C (68° F) provided add-on control devices demonstrating at least 95 percent overall capture and control of emissions are used. The add-on controls may include, but are not limited to, carbon adsorbers or afterburners.
- B) An equivalent alternative control plan may be used to meet the control requirements of this Section pursuant to Section 218.108 of this Part. Pursuant to the material requirements of subsection (c)(3)(B) of this Section, a solvent with a vapor pressure of 1.0 mmHg (0.019 psi) measured at 20° C (68° F) shall be the basis for assessment of equivalent emissions from any equivalent alternative control plan. If used as an equivalent alternative control plan, an add-on control must demonstrate at least a 95 percent overall capture and control efficiency. A control plan approved by the Agency shall be effective only when included in a federally enforceable permit or approved by the USEPA as a SIP revision pursuant to Section 218.108 of this Part.
- C) Add-on controls operating at a source prior to November 30, 2006, shall be tested by March 1, 2007. Add-on controls constructed on or after November 30, 2006, shall be tested within 90 days of

initial startup. Testing procedures and recordkeeping for add-on controls and equivalent alternative controls subject to subsections (c)(4)(A) and (B) of this Section are to be performed pursuant to Section 218.105 (c), (d), (e) and (f) of this Part.

- d) Recordkeeping and Reporting Requirements: On and after March 15, 1999:
- 1) All persons subject to the requirements of subsections (c)(1)(A), ~~and (c)(2)(A), and (c)(3)(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), and (c)(3)(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); and
    - E) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20° C (68° F).
  - 3) All persons subject to the requirements of subsection (c)(4) 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;
  - D) The unit volume of solvent;
  - E) The total volume of solvent;
  - F) The vapor pressure of the solvent measured in mmHg at 20° C (68° F); and
  - G) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20° C (68° F).
- 4) All persons subject to the requirements of subsection (c)(4) of this Section shall maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cold cleaning degreasers and add-on control equipment. At a minimum these records shall include:
- A) Records for periodic inspection of the cold cleaning degreasers and add-on control equipment with date of inspection, individual performing the inspection, and nature of inspection;
  - B) Records for repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM that escaped into the atmosphere as a result of the incident;
  - C) Control device monitoring and recording data; and
  - D) A daily log of operating time for the control device, monitoring equipment, and all associated degreasers.
- 5) All persons subject to the requirements of subsection (c) of this Section shall notify the Agency at least 30 days before changing the method of compliance between subsection (c)(3) and (c)(4) of this Section. Such notification shall include a demonstration of compliance with the newly applicable subsection.
- 6) All persons subject to the requirements of subsection (b) or (c) of this Section shall notify the Agency of any violation of subsection (b) or (c) of this Section by sending a description of the violation and copies of records documenting such violations to the Agency within 30 days following the occurrence of the violation.
- 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 or unloading) and permitted by the Agency, is exempt from the requirements of subsection (c) of this Section.

(Source: Amended at 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 218.APPENDIX H                      Baseline VOM Content Limitations for Subpart F, Section 218.212 Cross-Line Averaging

This Appendix contains limitations for purposes of determining compliance with the requirements in Section 218.212 of this Part. A source must establish that, at very least, each participating coating line used for purposes of cross-line averaging meets the Federal Implementation Plan level of VOM content, as listed below. The emission limitations for participating coating lines that must not be exceeded are as follows:

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

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

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

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

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

		kg/l	lb/gal
4)	Final repair coat	0.58	(4.8)
b)	Can Coating	kg/l	lb/gal
1)	Sheet basecoat and overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.34	(2.8)
3)	Interior body spray coat	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)
c)	Paper Coating	kg/l	lb/gal
		0.35	(2.9)
<p>(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which <u>flexographic or rotogravure</u> printing is performed if the paper coating line complies with the emissions limitations in <del>Subpart H: Printing and Publishing</del>, Section 218.401 of this Part. <u>In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part.</u>)</p>			
		kg/l	lb/gal
d)	Coil Coating	0.31	(2.6)
e)	Fabric Coating	0.35	(2.9)
f)	Vinyl Coating	0.45	(3.8)
g)	Metal Furniture Coating		
1)	Air Dried	0.36	(3.0)
2)	Baked	0.36	(3.0)

## h) Large Appliance Coating

- |    |           |      |       |
|----|-----------|------|-------|
| 1) | Air Dried | 0.34 | (2.8) |
| 2) | Baked     | 0.34 | (2.8) |

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

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

## j) Miscellaneous Metal Parts and Products Coating

- |    |                                      |      |       |
|----|--------------------------------------|------|-------|
| 1) | Clear coating                        | 0.52 | (4.3) |
| 2) | Extreme performance coating          |      |       |
|    | A) Air Dried                         | 0.42 | (3.5) |
|    | B) Baked                             | 0.42 | (3.5) |
| 3) | Steel pail and drum interior coating | 0.52 | (4.3) |
| 4) | All other coatings                   |      |       |
|    | A) Air Dried                         | 0.42 | (3.5) |
|    | B) Baked                             | 0.36 | (3.0) |

k)	Heavy Off-Highway Vehicle Products Coating	kg/l	
		lb/gal	

- |    |   |      |       |
|----|---|------|-------|
| 1) | Extreme performance prime coat  | 0.42 | (3.5) |
| 2) | Extreme performance top- coat (air dried)   | 0.42 | (3.5) |
| 3) | Final repair coat (air dried)   | 0.42 | (3.5) |
| 4) | All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above. |      |       |

l)	Wood Furniture Coating	kg/l	lb/gal
----	------------------------	------	--------

1)	Clear topcoat	0.67	(5.6)
2)	Opaque stain	0.56	(4.7)
3)	Pigmented coat	0.60	(5.0)
4)	Repair coat	0.67	(5.6)
5)	Sealer	0.67	(5.6)
6)	Semi-transparent stain	0.79	(6.6)
7)	Wash coat	0.73	(6.1)

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

m)	Existing Diesel-Electric Locomotive Coating Lines in Cook County	kg/l	lb/gal
1)	Extreme performance prime coat	0.42	(3.5)
2)	Extreme performance topcoat (air dried)	0.42	(3.5)
3)	Final repair coat (air dried)	0.42	(3.5)
4)	High-temperature aluminum coating	0.72	(6.0)
5)	All other coatings	0.36	(3.0)
n)	Plastic Parts Coating: Automotive/Transportation	kg/l	lb/gal
1)	Interiors		
	A) Baked		

	i)	Color Coat	0.49	(4.1)
	ii)	Primer	0.46	(3.8)
B)	Air Dried			
	i)	Color Coat	0.38	(3.2)
	ii)	Primer	0.42	(3.5)
2)	Exteriors (flexible and non-flexible)			
A)	Baked			
	i)	Primer	0.60	(5.0)
	ii)	Primer non-flexible	0.54	(4.5)
	iii)	Clear Coat	0.52	(4.3)
	iv)	Color Coat	0.55	(4.6)
B)	Air Dried			
	i)	Primer	0.66	(5.5)
	ii)	Clear coat	0.54	(4.5)
	iii)	Color coat (red & black)	0.67	(5.6)
	iv)	Color coat (others)	0.61	(5.1)
3)	Specialty			
A)	Vacuum metallizing basecoats, texture basecoats		0.66	(5.5)
B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings		0.71	(5.9)
C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats		0.77	(6.4)
D)	Stencil coatings, adhesion primers,			

	ink pad coatings, electrostatic prep coatings, and resist coatings	0.82	(6.8)
	E) Head lamp lens coatings	0.89	(7.4)
o)	Plastic Parts Coating: Business Machine	kg/l	lb/gal
	1) Primer	0.14	(1.2)
	2) Color coat (non-texture coat)	0.28	(2.3)
	3) Color coat (texture coat)	0.28	(2.3)
	4) Electromagnetic interference/radio frequency interference (EMI/RFI) shielding coatings	0.48	(4.0)
	5) Specialty Coatings		
	A) Soft coat	0.52	(4.3)
	B) Plating resist	0.71	(5.9)
	C) Plating sensitizer	0.85	(7.1)*

(Source: Amended at 30 Ill. Reg. \_\_, effective \_\_\_\_\_)

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

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

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219.602	Exemptions (Repealed)
219.603	Leaks (Repealed)
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 (REPEALED)

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 (Repealed)
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 (Repealed)
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 SOCOMI Reactors and Distillation Units
APPENDIX H:	Baseline VOM Content Limitations for Subpart F, Section 219.212 Cross-Line Averaging

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

**SOURCE:** Adopted at R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883, effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May 24, 1993, for a maximum of 150 days, amended in R93-9 at 17 Ill. Reg. 16918, effective September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994; amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg. 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385, effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996; amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006.

## 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 and Control 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 219.103 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 219.103 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).
  - 3) On and after November 30, 2006, 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 219.103 of this Part, unless the purchaser provides a copy of a valid state or federal construction or operating permit or a copy of the Federal Register demonstrating that the purchaser is in compliance with the

control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.

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), unless the person is in compliance with the control requirements of subsection (c)(4) of this Section or is exempt under subsection (f) or (g) of this Section.

4) Control Requirements:

A) A person may operate a cold cleaning degreaser using solvent with a vapor pressure greater than 1.0 mmHg (0.019 psi) but less than 56 mmHg (1.064 psi) measured at 20° C (68° F) provided add-on control devices demonstrating at least 95 percent overall capture and control of emissions are used. The add-on controls may include, but are not limited to, carbon adsorbers or afterburners.

B) An equivalent alternative control plan may be used to meet the control requirements of this Section pursuant to Section 219.108 of this Part. Pursuant to the material requirements of subsection (c)(3)(B) of this Section, a solvent with a vapor pressure of 1.0 mmHg (0.019 psi) measured at 20° C (68° F) shall be the basis for assessment of equivalent emissions from any equivalent alternative control plan. If used as an equivalent alternative control plan, an add-on control must demonstrate at least a 95 percent overall capture and control efficiency. A control plan approved by the Agency shall be effective only when included in a federally enforceable permit or approved by the USEPA as a SIP revision pursuant to Section 219.108 of this Part.

C) Add-on controls operating at a source prior to November 30, 2006, shall be tested by March 1, 2007. Add-on controls constructed on or after November 30, 2006, shall be tested within 90 days of initial startup. Testing procedures and recordkeeping for add-on controls and equivalent alternative controls subject to subsections (c)(4)(A) and (B) of this Section are to be performed pursuant to Section 219.105 (c), (d), (e) and (f) of this Part.

d) Recordkeeping and Reporting Requirements: On and after March 15, 1999:

1) All persons subject to the requirements of subsections (c)(1)(A), ~~and (c)(2)(A), and (c)(3)(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), and (c)(3)(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); and
  - E) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20° C (68° F).
- 3) All persons subject to the requirements of subsection (c)(4) 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;
  - D) The unit volume of solvent;
  - E) The total volume of solvent;
  - F) The vapor pressure of the solvent measured in mmHg at 20° C (68° F); and
  - G) For any mixture of solvents, the vapor pressure of the mixture, as used, measured in mmHg at 20° C (68° F).

- 4) All persons subject to the requirements of subsection (c)(4) of this Section shall maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cold cleaning degreasers and add-on control equipment. At a minimum these records shall include:
- A) Records for periodic inspection of the cold cleaning degreasers and add-on control equipment with date of inspection, individual performing the inspection, and nature of inspection;
  - B) Records for repair of malfunctions and breakdowns with identification and description of incident, date identified, date repaired, nature of repair, and the amount of VOM that escaped into the atmosphere as a result of the incident;
  - C) Control device monitoring and recording data; and
  - D) A daily log of operating time for the control device, monitoring equipment, and all associated degreasers.
- 5) All persons subject to the requirements of subsection (c) of this Section shall notify the Agency at least 30 days before changing the method of compliance between subsection (c)(3) and (c)(4) of this Section. Such notification shall include a demonstration of compliance with the newly applicable subsection.
- 6) All persons subject to the requirements of subsection (b) or (c) of this Section shall notify the Agency of any violation of subsection (b) or (c) of this Section by sending a description of the violation and copies of records documenting such violations to the Agency within 30 days following the occurrence of the violation.
- 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 30 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 219.Appendix H Baseline VOM Content Limitations for Subpart F, Section 219.212  
Cross-Line Averaging

This Appendix contains limitations for purposes of determining compliance with the requirements in Section 219.212 of this Part. A source must establish that, at very least, each participating coating line used for purposes of cross-line averaging meets the Federal Implementation Plan level of VOM content, as listed below. The emission limitations for participating coating lines that must not be exceeded are as follows:

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

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

3)	Topcoat	kg/l 1.81	lb/gal (15.1)
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(Note: The topcoat limitation is in units of kg (lbs) of VOM per l (gal) of coating solids deposited. Compliance with the limitation shall be based on the daily-weighted average from an entire topcoat operation. Compliance shall be demonstrated in accordance with the topcoat protocol referenced in Section 219.105(b) of this Part and the recordkeeping and reporting requirements specified in Section 219.211(f). Testing to demonstrate compliance shall be performed in accordance with the topcoat protocol and a detailed testing proposal approved by the Agency and USEPA specifying the method of demonstrating compliance with the protocol. Section 219.205 of this Part does not apply to the topcoat limitation.)

4)	Final repair coat	kg/l 0.58	lb/gal (4.8)
b)	Can Coating	kg/l	lb/gal

1)	Sheet basecoat and overvarnish	0.34	(2.8)
2)	Exterior basecoat and overvarnish	0.34	(2.8)
3)	Interior body spray coat	0.51	(4.2)
4)	Exterior end coat	0.51	(4.2)
5)	Side seam spray coat	0.66	(5.5)
6)	End sealing compound coat	0.44	(3.7)
		kg/l	lb/gal
c)	Paper Coating	0.35	(2.9)
<p>(Note: The paper coating limitation shall not apply to any owner or operator of any paper coating line on which <u>flexographic or rotogravure printing</u> is performed if the paper coating line complies with the emissions limitations in <u>Subpart H: Printing and Publishing</u>, Section 219.401 of this Part. <u>In addition, screen printing on paper is not regulated as paper coating, but is regulated under Subpart TT of this Part.</u>)</p>			
		kg/l	lb/gal
d)	Coil Coating	0.31	(2.6)
e)	Fabric Coating	0.35	(2.9)
f)	Vinyl Coating	0.45	(3.8)
g)	Metal Furniture Coating		
1)	Air Dried	0.36	(3.0)
2)	Baked	0.36	(3.0)
h)	Large Appliance Coating		
1)	Air Dried	0.34	(2.8)
2)	Baked	0.34	(2.8)

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

i)	Magnet Wire Coating	kg/l 0.20	lb/gal (1.7)
j)	Miscellaneous Metal Parts and Products Coating		
	1) Clear coating	0.52	(4.3)
	2) Extreme performance coating		
	A) Air Dried	0.42	(3.5)
	B) Baked	0.42	(3.5)
	3) Steel pail and drum interior coating	0.52	(4.3)
	4) All other coatings		
	A) Air Dried	0.42	(3.5)
	B) Baked	0.36	(3.0)
k)	Heavy Off-Highway Vehicle Products Coating	kg/l	lb/gal
	1) Extreme performance prime coat	0.42	(3.5)
	2) Extreme performance top-coat (air dried)	0.42	(3.5)
	3) Final repair coat (air dried)	0.42	(3.5)
	4) All other coatings are subject to the emission limitations for miscellaneous metal parts and products coatings in subsection (j) above.		
l)	Wood Furniture Coating	kg/l	lb/gal
	1) Clear topcoat	0.67	(5.6)

2)	Opaque stain	0.56	(4.7)
3)	Pigmented coat	0.60	(5.0)
4)	Repair coat	0.67	(5.6)
5)	Sealer	0.67	(5.6)
6)	Semi-transparent stain	0.79	(6.6)
7)	Wash coat	0.73	(6.1)

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

m)	Plastic Parts Coating:	Automotive/Transportation	
		kg/l	lb/gal
1)	Interiors		
	A) Baked		
	i) Color coat	0.49*	(4.1)*
	ii) Primer	0.46*	(3.8)*
	B) Air Dried		
	i) Color coat	0.38*	(3.2)*
	ii) Primer	0.42*	(3.5)*
2)	Exteriors (flexible and non-flexible)		
	A) Baked		

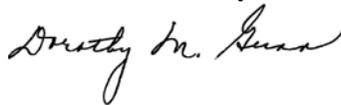
	i)	Primer	0.60*	(5.0)*
	ii)	Primer non-flexible	0.54*	(4.5)*
	iii)	Clear coat	0.52*	(4.3)*
	iv)	Color coat	0.55*	(4.6)*
B)		Air Dried		
	i)	Primer	0.66*	(5.5)*
	ii)	Clear coat	0.54*	(4.5)*
	iii)	Color coat (red & black)	0.67*	(5.6)*
	iv)	Color coat (others)	0.61*	(5.1)*
3)		Specialty		
	A)	Vacuum metallizing basecoats, texture basecoats	0.66*	(5.5)*
	B)	Black coatings, reflective argent coatings, air bag cover coatings, and soft coatings	0.71*	(5.9)*
	C)	Gloss reducers, vacuum metallizing topcoats, and texture topcoats	0.77*	(6.4)*
	D)	Stencil coatings, adhesion primers, ink pad coatings, electrostatic prep coatings, and resist coatings	0.82*	(6.8)*
	E)	Head lamp lens coatings	0.89*	(7.4)*

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

(Source: Amended at 30 Ill. Reg. \_\_, effective \_\_\_\_\_)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above opinion and order on September 21, 2006, by a vote of 4-0.



Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board