

ORIGINAL

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DEC 22 2005

STATE OF ILLINOIS  
Pollution Control Board

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF: )  
)  
ORGANIC MATERIAL EMISSION )  
STANDARDS AND LIMITATIONS FOR )  
THE CHICAGO AND METRO-EAST )  
AREAS: PROPOSED AMENDMENTS )  
TO 35 ILL. ADM. CODE 218 AND 219 )

R 06- 21  
(Rulemaking Air)

NOTICE

TO: Dorothy Gunn, Clerk  
Illinois Pollution Control Board  
James R. Thompson Center  
100 W. Randolph Street, Suite 11-500  
Chicago, Illinois 60601

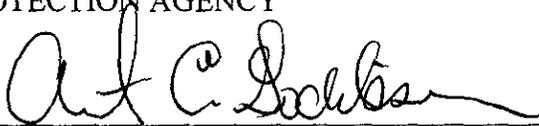
Matthew Dunn  
Illinois Attorney General's Office  
Environmental Control Division  
188 W. Randolph Street, 20<sup>th</sup> Floor  
Chicago, Illinois 60601

General Counsel  
Illinois Department of Natural Resources  
One Natural Resources Way  
Springfield, Illinois 62702-1271

PLEASE TAKE NOTICE that I have filed with the Office of the Pollution Control Board the MOTION FOR ACCEPTANCE APPEARANCE OF ATTORNEYS, CERTIFICATION OF ORIGINATION, STATEMENT OF REASONS AND THE REGULATORY PROPOSAL on behalf of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.

Date: December 20, 2005

ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY

By: 

Annet C. Godiksen  
Assistant Counsel  
Division of Legal Counsel

1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276  
217/782-5544

THIS FILING IS SUBMITTED ON  
RECYCLED PAPER

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R06- 21  
(Rulemaking Air)

MOTION FOR ACCEPTANCE

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA") and, pursuant to 35 Ill. Adm. Code 102.106, 102.200 and 102.202, moves the Illinois Pollution Control Board ("Board") accept for hearing the Illinois EPA's proposal for amendment to 35 Ill. Adm. Code Parts 218 and 219. This regulatory proposal includes:

- 1. Appearances for the Attorneys Representing the Illinois EPA;
- 2. Certification of Origination;
- 3. Statement of Reasons; and
- 4. Proposed Amendments.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Douglas P. Scott  
Douglas P. Scott  
Director

Dated: December 20, 2005

Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
Springfield, Illinois 62794-9276  
(217) 782-3397





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 TO 35 ILL. ADM. CODE 218 AND 219 )

CERTIFICATION OF ORIGATION

NOW COMES the Illinois Environmental Protection Agency ("Illinois EPA") to certify in accordance with 35 Ill. Adm. Code 102.202(i) that this proposal for amendments to 35 Ill. Adm. Code 218 and 219 amends the most recent version of that rule as published on the Illinois Pollution Control Board's website.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By:   
 Annet C. Godiksen  
 Assistant Counsel  
 Division of Legal Counsel

Dated: December 20, 2005

Illinois Environmental Protection Agency  
 1021 North Grand Avenue East  
 Springfield, Illinois 62794-9276

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

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R06- 2  
(Rulemaking Air)

**STATEMENT OF REASONS**

The Illinois Environmental Protection Agency ("Illinois EPA") hereby submits its Statement of Reasons for the above-captioned proceeding to the Illinois Pollution Control Board ("Board") pursuant to Section 27 of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/27 (2002), and 35 Ill. Adm. Code Section 102.200 and 102.202.

**I. STATUTORY BASIS AND OVERVIEW**

**A. Statutory Basis**

This is a regulatory proposal submitted pursuant to Sections 27 and 28 of the Illinois Environmental Protection Act. See 415 ILCS 5/27 and 28. It is not being proposed as an identical in substance, fast track or federally required rule. In addition, this proposal is being filed as a general (rather than emergency or preemptory) rulemaking pursuant to Section 5-40 of the Illinois Administrative Procedure Act. See 5 ILCS 100/5-40. Section 27 of the Act confers general substantive rulemaking authority

on the Board. The contents of this regulatory proposal are within these general rulemaking powers.

## **B. Overview**

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. Solvent cleaning is divided into the following three major types: cold cleaning, open-top vapor degreasing, and conveyORIZED degreasing. Evaporation of the solvent used during degreasing results in emissions of volatile organic material (“VOM”). Emissions are produced while parts are being cleaned as well as when the degreasing unit sits idle. These VOM emissions react with other pollutants, such as nitrogen oxides (“NO<sub>x</sub>”) and carbon monoxide (“CO”) to form ozone.

In May 2003, Diversapack alerted Illinois EPA of their desire to obtain a variance to Section 218.182(c) of the Illinois Administrative Code, citing the need to use solvents compatible with their printing operations. These solvents do not meet the current vapor pressure requirements. Diversapack recycles its solvent in a totally enclosed parts washer and uses add-on controls for the abatement of process emissions. Three additional point sources also using add-on controls and solvents that do not meet the lower vapor pressure limits have been identified in the Chicago nonattainment area. The point sources’ add-on controls would have been allowed pursuant to the regulatory language in effect prior to the revisions of 1997.

In lieu of site-specific rulemakings for each of these facilities, the Illinois EPA is proposing revisions to 35 Ill. Adm. Code 218 and 219. Specifically, the Illinois EPA

proposes revisions to two Sections: 218.182 and 219.182. The proposed revisions will allow for add-on controls or equivalent alternative control plans as compliance options. Additional revisions concerning solvent sale, solvent use, add-on control testing, and recordkeeping requirements are also being proposed.

Currently an 8-hour national ambient air quality standard (“NAAQS”) is in effect for the Chicago and the Metro-East areas, which designates both areas as “moderate” ozone nonattainment areas. The 8-hour NAAQS replaced the previous 1-hour standard on June 15, 2005. Given that the USEPA has a policy against regression, the control measures adopted to meet the 1-hour standard must still be maintained.

In 1997, as part of the 9 percent rate of progress plan for the 1-hour ozone standard, Illinois EPA submitted control measures that reduced VOM emissions for cold cleaning degreaser operations in the Chicago and Metro-East nonattainment areas. The revisions to the cold cleaning degreaser regulations, submitted September 8, 1997, lowered the allowed solvent vapor pressure for operations located in the Chicago and Metro-East ozone nonattainment areas in two steps. The first step lowered the allowed vapor pressure of solvent used to 2.0 mmHg by 1999, and the second step lowered the allowed vapor pressure to 1.0 mmHg by 2001. The respective resultant VOM reductions were 11.35 and 11.68 tons per day towards the rate of progress requirements. Modeled after an adopted Maryland rule, the 1997 rule revisions had no provisions for add-on controls for cold cleaning degreasers and in fact overrode add-on control provisions that had previously been in effect. Under the Clean Air Act and USEPA State Implementation Plan (“SIP”) guidance, failure to obtain equivalent emissions reductions from the cold cleaning sources would require the Agency to makeup the deficiency

through the implementation of contingency control measures. Discussions with the USEPA indicate that the proposed 95 percent control level is considered sufficient for this emissions source category.

## **II. REGULATORY PROPOSAL**

### **A. Purpose and Effect of Regulatory Proposal**

The purpose of these amendments is to allow for the use of add-on controls as a compliance option for the cold cleaning solvent degreasing operations in the Chicago and Metro-East nonattainment areas. The use of an equivalent alternative control plan is also a means of compliance.

Four cold cleaning degreaser operations located in the Chicago nonattainment area have been identified as using add-on controls. Three are using thermal oxidizers to control emissions from closed loop cold cleaning systems that are recycling spent solvents. These systems capture 100 percent and remove or destroy at least 95 percent of the VOM emissions from the cold cleaning process. The fourth source is using carbon adsorption with an overall capture and control efficiency of 99 percent. There are less emissions being emitted to the atmosphere from the impacted sources than if the specified low vapor pressure solvent were being used without controls. Thus, potential emissions from these highly controlled sources are minimal, which is consistent with the overall intent of the Illinois EPA control measures in the rate of progress plan.

## **B. Facts in Support**

As discussed above, all four Chicago nonattainment area point sources are reporting 95 percent or greater overall capture and control of the emissions from their cold cleaning operations. At the facility reported control levels, the environment is experiencing fewer VOM emissions than if the currently required low vapor pressure solvent were being used without controls. The Metro-East nonattainment area does not have cold cleaning degreaser operations large enough to be classified as point sources at this time. As of this date, there are no proposed equivalent alternative control plans.

## **C. Summary of the Proposal**

The Illinois EPA is proposing to revise its cold cleaning degreaser rules in the Chicago and Metro-East nonattainment areas by making parallel changes to Section 218.182 (c) and (d), and Section 219.182 (c) and (d).

### **1. Section 218.182(c)(2) and Section 219.182(c)(2)**

The Illinois EPA is proposing revisions to Section 218.182(c)(2) and Section 219.182(c)(2) to allow for the sale or purchase of solvents with vapor pressure greater than 1.0 mmHg in units greater than five (5) gallons to or by sources that have valid permits, are in compliance with the add-on control requirements, or are exempt.

### **2. Section 218.182(c)(3) and Section 219.182(c)(3)**

The Illinois EPA is proposing control requirements to allow for the option of add-on controls. New subsections are being created, Section 218.182(c)(3) and Section

219.182 (c)(3), that will require sources using solvents with vapor pressures greater than 1.0 mmHg to control their emissions to an overall capture and control efficiency of no less than 95 percent.

There are also provisions in Section 218.182 (c)(3) and Section 219.182 (c)(3) allowing for equivalent alternative emissions plans. These subsections 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 and that equivalent alternative control plans must have at least 95 percent reduction in VOM emissions. The equivalent alternative control plans are subject to approval by the USEPA and the Illinois EPA in the form of either a federally enforceable permit or as a SIP revision.

Provisions have also been added mandating the testing of add-on controls. Currently operating add-on controls shall be tested by March 1, 2006, and newly constructed add-on controls shall be tested within 90 days after startup. The testing procedures, monitoring, and recordkeeping provisions for add-on controls and equivalent alternative control plans will 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. All records must be kept for a minimum of three years.

### **3. Section 218.182(d) and Section 219.182(d)**

Changes to Section 218.182(d) and Section 219.182(d) include recordkeeping requirements for persons using add-on controls or an equivalent alternative control plan.

Those requirements pertain to purchase information, records for periodic inspection of the cold cleaning degreasers and add-on control equipment, records for repair of malfunctions and breakdowns, and other records pertaining to the use of good operating practices.

Additionally, all persons subject to the material or control requirements will be obligated to notify the Agency of changes in compliance methods at least 30 days prior to any such change. Also, all persons subject to the equipment, material or control requirements will be obligated to notify the Agency of violations of the same requirements within 30 days.

#### **D. Technical Feasibility and Economic Justification**

##### **1. Technical Feasibility**

In the cases of both add-on controls and alternative plans, the Agency is proposing additional options to supplement the technically feasible low-solvent requirement already in place. The technical feasibility of add-on controls for point source cold cleaning degreasers is already being demonstrated. Of the three sources using thermal oxidizers, two reported 98 percent and one reported 95 percent overall control efficiencies in their 2003 Annual Emissions Reports (“AERs”). The source using the carbon adsorber reported 99 percent overall control efficiency of the VOM emissions from its cold cleaning operation in 2003. At this time there are no proposed equivalent alternative control plans; as such, the technical feasibility of such plans cannot be assessed.

## **2. Economic Justification**

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 \$115 - \$562 per ton of VOM reduced. Emissions from the operation using the carbon adsorber were considered insignificant, thus an analysis of cost effectiveness was not undertaken for that plant.

Requiring the impacted printing sources to use low vapor pressure solvents presents economic problems in the form of additional waste, quality issues, and inefficiencies. By allowing the use of add-on controls, waste can be minimized as solvent may be reused. In the 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, thereby reducing solvent waste, solvent purchases, and operating costs. 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 thermal oxidizers would suffer and supplemental fuel would be necessary to maintain destruction efficiency levels.

At this time there are no proposed equivalent alternative control plans; as such, the economic justification of such plans cannot be assessed.

**E. Affected Facilities and Outreach**

Diversapack, Printpack, MPC Products, and Pechiney Plastic Packaging are cold cleaning degreaser point sources that are using add-on controls. These sources were identified from information provided in AERs for the year 2003. In 2003, the controlled VOM emissions from these sources totaled 0.033 tons per day in the Chicago nonattainment area. There are no cold cleaning degreaser operations large enough in the Metro-East nonattainment area to be classified as point sources.

On June 30, 2005, the Illinois EPA sent copies of the draft regulatory proposal to:

Chemical Industry Council of Illinois  
Diversapack  
Illinois Environmental Regulatory Group  
Illinois Manufacturers' Association  
Metal Impact Corporation  
MPC Products Corporation  
Pechiney Plastic Packaging, Inc.  
Printpack, Inc.

On July 25, 2005, the Illinois EPA sent a copy of the draft regulatory proposal via email to:

USEPA, Region V, Air and Radiation Regulatory Unit

The USEPA has reviewed this proposal and is in agreement with Illinois EPA's control level recommendation. Outreach efforts to the impacted sources and USEPA found the proposed revisions to be acceptable.

### **III. SYNOPSIS OF TESTIMONY**

The Agency will provide one witness in this proceeding: Gary Beckstead. Mr. Beckstead will address the basis for proposing these changes.

The Agency will submit pre-filed written testimony in advance of the hearings pursuant to any hearing officer order that follows this proposal. The Agency respectfully requests that the Board accept Mr. Beckstead's testimony into the record as if read at hearing and allow him to briefly summarize his testimony during the hearing. The suggestion has streamlined several regulatory hearings in the past and offers the Agency the opportunity to more fully respond to questions (pre-filed or otherwise) during the information gathering process.

### **IV. CONCLUSION**

The Illinois EPA is modifying the current rule to provide additional compliance options and allow cold cleaning solvent degreasing sources in the Chicago and Metro-East nonattainment areas to continue using add-on controls. The recommended overall capture and control efficiency for add-on controls is set at 95 percent to limit potential deficiencies in anticipated control strategy emission reductions used to meet the rate of progress plan requirements. As noted above, failure to obtain equivalent emissions reductions from the cold cleaning point sources would require the Agency to make-up the deficiency through the implementation of contingency control measures. The emissions from the existing cold cleaning sources currently using add-on controls are equal to or

less than emissions generated by cold cleaning operations using solvents having a 1.0 mmHg vapor pressure without controls.

**Respectfully submitted,**

**ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY**

**By:**

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**Annet C. Godiksen  
Assistant Counsel  
Division of Legal Counsel**

**Date: October 21, 2005  
1021 N. Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
217-782-5544**

**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 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 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  $\frac{7}{10}$  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 (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, 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 they are in compliance with the control requirements of subsection (c)(3) of this Section or are 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 they are in compliance with the control requirements of subsection (c)(3) of this Section or are exempt under subsection (f) or (g) of this Section.

3) 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 achieving at least 95 percent reduction of VOM 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)(2)(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. A control plan approved by the Agency shall be effective only when included in a federally enforceable permit or approved by the U.S. EPA as a SIP revision pursuant to Section 218.108 of this Part.

C) Add-on controls operating at a source prior to the effective date of this rule shall be tested by March 1, 2006. Add-on controls constructed after the effective date of this rule 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)(3)(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 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).
- 3) All persons subject to the requirements of subsection (c)(3) 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; and
  - F) The vapor pressure of the solvent measured in mmHg at 20° C (68° F).
- 4) All persons subject to the requirements of subsection (c)(3) 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, 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 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)(2) and (c)(3) 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 29 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 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 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  $\frac{7}{10}$  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, 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 they are in compliance with the control requirements of subsection (c)(3) of this Section or are 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 they are in compliance with the control requirements of subsection (c)(3) of this Section or are exempt under subsection (f) or (g) of this Section.

3) 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 achieving at least 95 percent reduction of VOM 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)(2)(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. A control plan approved by the Agency shall be effective only when included in a federally enforceable permit or approved by the U.S. EPA as a SIP revision pursuant to Section 219.108 of this Part.

C) Add-on controls operating at a source prior to the effective date of this rule shall be tested by March 1, 2006. Add-on controls constructed after the effective date of this rule 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)(3)(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 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).
- 3) All persons subject to the requirements of subsection (c)(3) 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; and
  - F) The vapor pressure of the solvent measured in mmHg at 20° C (68° F).
- 4) All persons subject to the requirements of subsection (c)(3) 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, 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 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)(2) and (c)(3) 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 29 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

STATE OF ILLINOIS                    )  
  ) SS.  
COUNTY OF SANGAMON            )

PROOF OF SERVICE

I, the undersigned, on oath state that I have served the attached Motion for Acceptance, Appearance of Attorneys, Certification of Origination, Statement of Reasons and the Regulatory Proposal upon the person to whom it is directed, by placing it in an envelope addressed to:

TO: Dorothy Gunn, Clerk  
Illinois Pollution Control Board  
James R. Thompson Center  
100 W. Randolph Street, Suite 11-500  
Chicago, Illinois 60601

Matthew Dunn  
Illinois Attorney General  
Environmental Control Division  
188 W. Randolph Street, 20<sup>th</sup> Floor  
Chicago, Illinois 60601

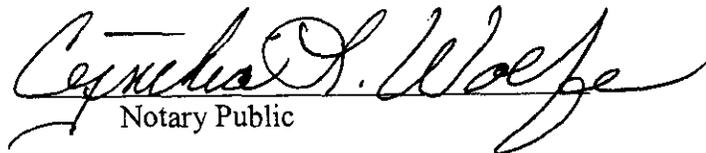
General Counsel  
Illinois Department of Natural Resources  
One Natural Resources Way  
Springfield, Illinois 62702-1271

and mailing it by First Class Mail from Springfield, Illinois on December 20, 2005, with sufficient postage affixed.

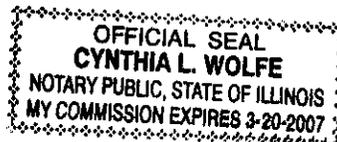


SUBSCRIBED AND SWORN TO BEFORE ME

this 20<sup>th</sup> day of December, 2005.



Notary Public



**THIS FILING IS SUBMITTED ON RECYCLED PAPER**