

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: Organic Material Emission Standards and Limitations for the Metro East Area

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- 2) Code Citation: 35 Ill. Adm. Code 219

SEP - 8 2010

- 3) Section Number: 219.187 Proposed Action: Amend

STATE OF ILLINOIS
Pollution Control Board

- 4) Statutory authority: Implementing Sections 21, 22, 22.01 and 22.9, and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/21, 22, 22.01, 22.9, 27].

- 5) A complete description of the subjects and issues involved: In a recent filing with the Board, the Illinois Environmental Protection Agency (Agency) stated that language recently adopted in R10-8 contained a technical error. The Agency indicated that this error made it impossible for sources subject to the adopted regulations to comply with applicable limitations. The Agency noted that, although the Board had opened a subdocket in order to address a separate issue, no rulemaking proposal addressing that issue had been timely filed. The Agency proposed to proceed in subdocket as the most efficient way to adopt a correction.

For a more detailed description of this rulemaking, see the Board's August 19, 2010, first-notice opinion and order: Reasonably Available Control Technology (RACT) for Volatile Organic Material Emissions from Group II Consumer & Commercial Products: Proposed Amendments to 35 Ill. Adm. Code 211, 218, and 219. (R10-08(A))

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The Agency, which initiated the proceeding in this subdocket, did not indicate that it had used a published study or report in developing the proposed correction.
- 7) Will this rulemaking replace any emergency rulemakings currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other amendments pending on this Part? Yes

Section Numbers: Proposed Action: Illinois Register Citation:

POLLUTION CONTROL BOARD

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219.105	Amend	34 Ill. Reg. 4475; April 2, 2010
219.106	Amend	34 Ill. Reg. 4475; April 2, 2010
219.112	Amend	34 Ill. Reg. 4475; April 2, 2010
219.204	Amend	34 Ill. Reg. 4475; April 2, 2010
219.205	Amend	34 Ill. Reg. 4475; April 2, 2010
219.207	Amend	34 Ill. Reg. 4475; April 2, 2010
219.208	Amend	34 Ill. Reg. 4475; April 2, 2010
219.210	Amend	34 Ill. Reg. 4475; April 2, 2010
219.211	Amend	34 Ill. Reg. 4475; April 2, 2010
219.212	Amend	34 Ill. Reg. 4475; April 2, 2010
219.219	New	34 Ill. Reg. 4475; April 2, 2010
219.890	New	34 Ill. Reg. 4475; April 2, 2010
219.891	New	34 Ill. Reg. 4475; April 2, 2010
219.892	New	34 Ill. Reg. 4475; April 2, 2010
219.894	New	34 Ill. Reg. 4475; April 2, 2010
219.900	New	34 Ill. Reg. 4475; April 2, 2010
219.901	New	34 Ill. Reg. 4475; April 2, 2010
219.902	New	34 Ill. Reg. 4475; April 2, 2010
219.903	New	34 Ill. Reg. 4475; April 2, 2010
219.904	New	34 Ill. Reg. 4475; April 2, 2010

- 11) Statement of statewide policy objectives: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, place and manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comment on this proposal for a period of 45 days after the date of this publication. Comments should reference docket R10-08(A) and be addressed to:

Clerk's Office
Illinois Pollution Control Board
State of Illinois Center, Suite 11-500
100 W. Randolph St.
Chicago, IL 60601

Address all questions to Tim Fox at 312-814-6085.

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Interested persons may request copies of the Board's opinion and order by calling the Clerk's office at 312-814-3620, or download them from the Board's Web site at www.ipcb.state.il.us.

- 13) Initial regulatory flexibility analysis:
- A) Types of small businesses, small municipalities, and not-for-profit corporations affected: This rulemaking will impact any small business, small municipality, and not-for-profit corporation that engages in industrial solvent cleaning operations subject to the requirements of Section 218.187 and meeting the applicability thresholds specified in the proposed rulemaking.
 - B) Reporting, bookkeeping or other procedures required for compliance: The Agency indicates that the proposed rulemaking correct a technical error, and the proposal does not itself require the owner or operator of a subject source to make reports or conduct bookkeeping or other procedures for compliance.
 - C) Types of professional skills necessary for compliance: No professional skills beyond those currently required by the existing State and federal air pollution control requirements applicable to affected sources will be required.
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2009

The full text of the Proposed Amendment begins on the next page:

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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219.583 Gasoline Dispensing Operations - Storage Tank Filling Operations
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219.APPENDIX H Baseline VOM Content Limitations for Subpart F, Section

219.212 Cross-Line Averaging

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

SOURCE: Adopted in 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; amended in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-10 at 34 Ill. Reg. 5392, effective March 23, 2010; amended in R10-~~088~~ at 34 Ill. Reg. 9253, effective June 25, 2010; amended in R10-~~088~~(A) at 34 Ill. Reg. _____, effective _____.

SUBPART E: SOLVENT CLEANING

Section 219.187 Other Industrial Solvent Cleaning Operations

a) Applicability. On and after April 1, 2011:

1) Except as provided in subsection (a)(2) of this Section, the requirements of this Section shall apply to all cleaning operations that use organic materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of VOM from cleaning operations at the source, in the absence of air pollution control equipment. For purposes of this Section, "cleaning operation" means the process of cleaning products, product components, tools, equipment, or general work areas during production, repair, maintenance or servicing, including but not

limited to spray gun cleaning, spray booth cleaning, large and small manufactured components cleaning, parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank cleaning, at sources with emission units;

2) Notwithstanding subsection (a)(1) of this Section:

A) The following cleaning operations shall be exempt from the requirements of subsections (b), (c), (d), (f), and (g) of this Section:

i) Cleaning operations subject to the limitations in Sections 219.182, 219.183, or 219.184;

ii) Janitorial cleaning;

iii) Stripping of cured coatings, inks, or adhesives, including screen reclamation activities;

iv) Cleaning operations in printing pre-press areas, including the cleaning of film processors, color scanners, plate processors, film cleaning, and plate cleaning;

B) Cleaning operations for emission units within the following source categories shall be exempt from the requirements of subsections (b), (c), (d), (f), and (g) of this Section:

i) Aerospace coating;

ii) Flexible package printing;

iii) Lithographic printing;

iv) Letterpress printing;

v) Flat wood paneling coating;

vi) Large appliance coating;

vii) Metal furniture coating;

viii) Paper, film, and foil coating;

ix) Wood furniture coating;

x) Shipbuilding and repair coating;

xi) Plastic parts coating;

xii) Miscellaneous metal parts coating;

xiii) Fiberglass boat manufacturing;

xiv) Miscellaneous industrial adhesives; and

xv) Auto and light-duty truck assembly coating;

C) The following cleaning operations shall be exempt from the requirements of subsections (b), (c), (f), and (g) of this Section:

i) Cleaning of solar cells, laser hardware, scientific instruments, and high-precision optics;

ii) Cleaning conducted as part of performance laboratory tests on coatings, adhesives, or inks; research and development operations; or laboratory tests in quality assurance laboratories;

iii) Cleaning of paper-based gaskets and clutch assemblies where rubber is bonded to metal by means of an adhesive;

iv) Cleaning of cotton swabs to remove cottonseed oil before cleaning of high-precision optics;

v) Cleaning of medical device and pharmaceutical manufacturing facilities using no more than 1.5 gallons per day of solvents;

vi) Cleaning of adhesive application equipment used for thin metal laminating;

vii) Cleaning of electronic or electrical cables;

viii) Touch-up cleaning performed on printed circuit boards where surface mounted devices have already been attached;

ix) Cleaning of coating and adhesive application processes utilized to manufacture transdermal drug delivery products using no more than three gallons per day of ethyl acetate;

x) Cleaning of application equipment used to apply coatings on satellites and radiation effect coatings;

xi) Cleaning of application equipment used to apply solvent-borne fluoropolymer coatings;

xii) Cleaning of ultraviolet or electron beam adhesive application;

xiii) Cleaning of sterilization indicating ink application equipment if the facility uses no more than 1.5 gallons per day of solvents for such cleaning;

xiv) Cleaning of metering rollers, dampening rollers, and printing plates;

xv) Cleaning of numismatic dies; and

xvi) Cleaning operations associated with digital printing.

b) Material and Control Requirements. No owner or operator of a source subject to this Section shall perform any cleaning operation subject to this Section unless the owner or operator meets the requirements in subsection (b) (1), (b) (2), or (b) (3):

1) The VOM content of the as-used cleaning solutions ~~(minus water and any compounds that are specifically exempted from the definition of VOM)~~ does not exceed the following emissions limitations:

A) Product cleaning during manufacturing process or surface preparation for coating, adhesive, or ink application:

	kg/l	lb/ gal <u>gali</u>)	Electrical
apparatus components and electronic components	0.10	0.83	
ii) Medical device and pharmaceutical manufacturing	0.80	6.7	

B) Repair and maintenance cleaning:

kg/l	lb/ gal <u>gali</u>)	Electrical apparatus components	and electronic
components	0.10	0.83ii)	Medical device and pharmaceutical
manufacturing:		tools, equipment, and machinery	0.80 6.7
iii) Medical device and pharmaceutical manufacturing:		general work surfaces	0.60 5.0

C) Cleaning of ink application equipment:

kg/l	lb/ gal <u>gali</u>)	Rotogravure printing	that does not print flexible
packaging	0.10	0.83ii)	Screen printing
0.50 4.2iii)		Ultraviolet ink and electron beam	ink application
equipment, except screen printing			0.65 5.4iv)
Flexographic printing that does not print flexible packaging	0.10	0.83	

kg/l	<u>lb/gal</u> D)	All other cleaning operations not	kg/l
<u>lb/gal</u>		subject to a specific limitation in	
subsections (b) (1) (A) through		(b) (1) (C) of this Section	
0.050	0.42		

2) The composite vapor pressure of each as-used cleaning solution used does not exceed 8.0 mmHg measured at 20~~e~~C (68~~e~~F); or

3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85 percent overall. The owner or operator may use an emissions control system other than an afterburner or carbon adsorber if such device reduces VOM emissions from the subject cleaning operation by at least 85 percent overall, the owner or operator submits a plan to the Agency detailing appropriate monitoring devices, test methods, recordkeeping requirements, and operating parameters for such control device, and such plan is approved by the Agency and USEPA within federally enforceable permit conditions.

c) The owner or operator of a subject source shall demonstrate compliance with this Section by using the applicable test methods and procedures specified in subsection (g) of this Section and by complying with the recordkeeping and reporting requirements specified in subsection (e) of this Section.

d) Operating Requirements. The owner or operator of a source subject to the requirements of this Section shall comply with the following for each subject cleaning operation:

1) Cover open containers and properly cover and store applicators used to apply cleaning solvents;

2) Minimize air circulation around the cleaning operation;

3) Dispose of all used cleaning solutions, cleaning towels, and applicators used to apply cleaning solvents in closed containers;

4) Utilize equipment practices that minimize emissions.

e) Recordkeeping and Reporting Requirements

1) The owner or operator of a source exempt from the limitations of this Section because of the criteria in Section 219.187(a)(1) of this Subpart shall comply with the following:

A) By April 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:

i) A declaration that the source is exempt from the requirements of this Section because of the criteria in Section 219.187(a)(1);

ii) Calculations that demonstrate that combined emissions of VOM from cleaning operations at the source never equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment;

B) Notify the Agency of any record that shows that the combined emissions of VOM from cleaning operations at the source ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, within 30 days after the event occurs.

2) All sources subject to the requirements of this Section shall:

A) By April 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:

i) A declaration that all subject cleaning operations are in compliance with the requirements of this Section;

ii) Identification of each subject cleaning operation and each VOM-containing cleaning solution used as of the date of certification in such operation;

iii) If complying with the emissions control system requirement, what type of emissions control system will be used;

iv) Initial documentation that each subject cleaning operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;

v) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;

vi) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.187(d); and

vii) A description of each cleaning operation exempt pursuant to Section 219.187(a)(2), if any, and a listing of the emission units on which the exempt cleaning operation is performed;

B) At least 30 calendar days before changing the method of compliance between subsections (b)(1) or (b)(2) and subsection (b)(3) of this Section, notify the Agency in writing of such change. The notification shall include a demonstration of compliance with the newly applicable subsection;

3) All sources complying with this Section pursuant to the requirements of subsection (b)(1) of this Section shall collect and record the following information for each cleaning solution used:

A) For each cleaning solution ~~which~~that is prepared at the source with automatic equipment:

i) The name and identification of each cleaning solution;

ii) The VOM content of each cleaning solvent in the cleaning solution;

iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);

iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;

v) The VOM content of the as-used cleaning solution, with supporting calculations; and

vi) A calibration log for the automatic equipment, detailing periodic checks;

B) For each batch of cleaning solution that is not prepared at the source with automatic equipment:

i) The name and identification of each cleaning solution;

ii) Date, time of preparation, and each subsequent modification of the batch;

iii) The VOM content of each cleaning solvent in the cleaning solution;

iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and

v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(a) of this Part;

4) All sources complying with this Section pursuant to the requirements of subsection (b)(2) of this Section shall collect and record the following information for each cleaning solution used:

A) The name and identification of each cleaning solution;

B) Date, time of preparation, and each subsequent modification of the batch;

C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;

D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and

E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;

5) All sources complying with this Section pursuant to the requirements of subsection (b) (3) of this Section shall comply with the following:

A) By April 1, 2011, or upon initial start-up of the source, whichever is later, and upon initial start-up of a new emissions control system, include in the certification required by subsection (e) (3) of this Section a declaration that the monitoring equipment required under Section 219.187(f) of this Subpart has been properly installed and calibrated according to manufacturer's specifications;

B) If testing of an emissions control system is conducted pursuant to Section 219.187(g) of this Subpart, the owner or operator shall, within 90 days after conducting such testing, submit a copy of all test results to the Agency and shall submit a certification to the Agency that includes the following:

i) A declaration that all tests and calculations necessary to demonstrate compliance with Section 219.187(b) (3) of this Subpart have been properly performed;

ii) A statement whether the subject cleaning operation is or is not in compliance with Section 219.187(b) (3) of this Subpart; and

iii) The operating parameters of the emissions control system during testing, as monitored in accordance with Section 219.187(f) of this Subpart;

C) Collect and record daily the following information for each cleaning operation subject to the requirements of Section 219.187(b) (3) of this Subpart:

i) Emissions control system monitoring data in accordance with Section 219.187(f) of this Subpart, as applicable;

ii) A log of operating time for the emissions control system, monitoring equipment, and ~~the~~ associated cleaning equipment;

iii) A maintenance log for the emissions control system and monitoring equipment detailing all routine and non-routine maintenance performed, including dates and duration of any outages;

D) Maintain records documenting the use of good operating practices consistent with the equipment manufacturer's specifications for the cleaning equipment being used and the emissions control system equipment. At a minimum, these records shall include:

i) Records for periodic inspection of the cleaning equipment and emissions control system equipment with date of inspection, individual performing the inspection, and nature of inspection;

ii) 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 released into the atmosphere as a result of the incident;

6) All sources subject to the requirements of subsections (b) and (d) of this Section shall notify the Agency of any violation of ~~subsections~~subsection (b) or (d) by providing a description of the violation and copies of records documenting ~~such~~the violation to the Agency within 30 days following the occurrence of the violation;

7) All records required by this subsection (e) shall be retained by the source for at least three years and shall be made available to the Agency upon request.

f) Monitoring Requirements

1) If an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.187(b)(3) of this Subpart shall:

A) Install, calibrate, operate, and maintain temperature monitoring devices with an accuracy of ~~3e-CoC~~ or ~~5e-FOF~~ on the emissions control system in accordance with Section 219.105(d)(2) of this Part and in accordance with the manufacturer's specifications. Monitoring shall be performed at all times when the emissions control system is operating; and

B) Install, calibrate, operate and maintain, in accordance with manufacturer's specifications, a continuous recorder on the temperature monitoring devices, such as a strip chart, recorder or computer, with at least the same accuracy as the temperature monitor;

2) If an emissions control system other than an afterburner or carbon adsorber is used to demonstrate compliance, the owner or operator of a source subject to Section 219.187(b)(3) of this Subpart shall install, maintain, calibrate, and operate such monitoring equipment as set forth in the owner's or operator's plan approved by the Agency and USEPA pursuant to Section 219.187(b)(3).

g) Testing Requirements

1) Testing to demonstrate compliance with the requirements of this Section shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting the testing to allow the Agency to be present during the testing;

2) Testing to demonstrate compliance with the VOM content limitations in Section 219.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted, as follows:

A) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used, provided, however, Method 24, incorporated by reference in Section 219.112 of this Part, shall be used to demonstrate compliance; or

B) The manufacturer's specifications for VOM content for cleaning solvents may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(a) of this Part, provided, however, Method 24 shall be used to determine compliance;

3) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;

4) For afterburners and carbon adsorbers, the methods and procedures of Section 219.105(d) through (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.187(b)(3) of this Subpart, as follows:

A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 219.112 of this Part;

B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 219.112 of this Part;

C) To determine the VOM concentration of the exhaust stream entering and exiting the emissions control system, Method 25 or 25A, as appropriate, 40 CFR 60, ~~Appendix~~appendix A, incorporated by reference in Section 219.112 of this Part. For thermal and catalytic afterburners, Method 25 must be used except under the following circumstances, in which case Method 25A must be used:

i) The allowable outlet concentration of VOM from the emissions control system is less than 50 ppmv, as carbon;

ii) The VOM concentration at the inlet of the emissions control system and the required level of control result in exhaust concentrations of VOM of 50 ppmv, or less, as carbon; and

iii) Due to the high efficiency of the emissions control system, the anticipated VOM concentration at the emissions control system exhaust is 50 ppmv or less, as carbon, regardless of inlet concentration. If the source elects to use Method 25A under this option, the exhaust VOM concentration must be 50 ppmv or less, as carbon, and the required destruction efficiency must be met for the source to have demonstrated compliance. If the Method 25A test results show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, a retest is required. The retest shall be conducted using either Method 25 or Method 25A. If the retest is conducted using Method 25A and the test results again show that the required destruction efficiency apparently has been met, but the exhaust concentration is above 50 ppmv, as carbon, the source must retest using Method 25;

D) During testing, the cleaning equipment shall be operated at representative operating conditions and flow rates;

5) An owner or operator using an emissions control system other than an afterburner or carbon adsorber shall conduct testing to demonstrate compliance with the requirements of Section 219.187(b)(3) of this Subpart as set forth in the owner's or operator's plan approved by the Agency and USEPA as federally enforceable permit conditions pursuant to Section 219.187(b)(3) of this Subpart.

(Source: Amended at 34 Ill. Reg. _____, effective _____)




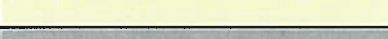

~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENT~~

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Statistics:	
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Insertions	27
Deletions	32
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Style change	0
Format changed	0
Total changes	59

JCAR350219-1013047r01

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2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS
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356 **AUTHORITY:** Implementing Section 10 and authorized by Sections 27 and 28 of the
 357 Environmental Protection Act [415 ILCS 5/10, 27 and 28].

358

359 **SOURCE:** Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-
 360 24 at 16 Ill. Reg. 13597, effective August 24, 1992; amended in R91-30 at 16 Ill. Reg. 13883,
 361 effective August 24, 1992; emergency amendment in R93-12 at 17 Ill. Reg. 8295, effective May
 362 24, 1993, for a maximum of 150 days; amended in R93-9 at 17 Ill. Reg. 16918, effective
 363 September 27, 1993 and October 21, 1993; amended in R93-28 at 18 Ill. Reg. 4242, effective
 364 March 3, 1994; amended in R94-12 at 18 Ill. Reg. 14987, effective September 21, 1994;
 365 amended in R94-15 at 18 Ill. Reg. 16415, effective October 25, 1994; amended in R94-16 at 18
 366 Ill. Reg. 16980, effective November 15, 1994; emergency amendment in R95-10 at 19 Ill. Reg.
 367 3059, effective February 28, 1995, for a maximum of 150 days; amended in R94-21, R94-31 and
 368 R94-32 at 19 Ill. Reg. 6958, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7385,
 369 effective May 22, 1995; amended in R96-2 at 20 Ill. Reg. 3848, effective February 15, 1996;
 370 amended in R96-13 at 20 Ill. Reg. 14462, effective October 28, 1996; amended in R97-24 at 21
 371 Ill. Reg. 7721, effective June 9, 1997; amended in R97-31 at 22 Ill. Reg. 3517, effective
 372 February 2, 1998; amended in R04-12/20 at 30 Ill. Reg. 9799, effective May 15, 2006; amended
 373 in R06-21 at 31 Ill. Reg. 7110, effective April 30, 2007; amended in R10-10 at 34 Ill. Reg. 5392,
 374 effective March 23, 2010; amended in R10-8 at 34 Ill. Reg. 9253, effective June 25, 2010;
 375 amended in R10-8(A) at 34 Ill. Reg. _____, effective _____.

376

377 **SUBPART E: SOLVENT CLEANING**

378

379 **Section 219.187 Other Industrial Solvent Cleaning Operations**

380

- 381 a) **Applicability.** On and after April 1, 2011:
- 382
- 383 1) Except as provided in subsection (a)(2) of this Section, the requirements of
- 384 this Section shall apply to all cleaning operations that use organic
- 385 materials at sources that emit a total of 6.8 kg/day (15 lbs/day) or more of
- 386 VOM from cleaning operations at the source, in the absence of air
- 387 pollution control equipment. For purposes of this Section, "cleaning

388 operation" means the process of cleaning products, product components,
389 tools, equipment, or general work areas during production, repair,
390 maintenance or servicing, including but not limited to spray gun cleaning,
391 spray booth cleaning, large and small manufactured components cleaning,
392 parts cleaning, equipment cleaning, line cleaning, floor cleaning, and tank
393 cleaning, at sources with emission units;

394
395 2) Notwithstanding subsection (a)(1) of this Section:

396
397 A) The following cleaning operations shall be exempt from the
398 requirements of subsections (b), (c), (d), (f), and (g) of this
399 Section:

400
401 i) Cleaning operations subject to the limitations in Sections
402 219.182, 219.183, or 219.184;

403
404 ii) Janitorial cleaning;

405
406 iii) Stripping of cured coatings, inks, or adhesives, including
407 screen reclamation activities;

408
409 iv) Cleaning operations in printing pre-press areas, including
410 the cleaning of film processors, color scanners, plate
411 processors, film cleaning, and plate cleaning;

412
413 B) Cleaning operations for emission units within the following source
414 categories shall be exempt from the requirements of subsections
415 (b), (c), (d), (f), and (g) of this Section:

416
417 i) Aerospace coating;

418
419 ii) Flexible package printing;

420
421 iii) Lithographic printing;

422
423 iv) Letterpress printing;

424
425 v) Flat wood paneling coating;

426
427 vi) Large appliance coating;

428
429 vii) Metal furniture coating;

430

- 431 viii) Paper, film, and foil coating;
- 432
- 433 ix) Wood furniture coating;
- 434
- 435 x) Shipbuilding and repair coating;
- 436
- 437 xi) Plastic parts coating;
- 438
- 439 xii) Miscellaneous metal parts coating;
- 440
- 441 xiii) Fiberglass boat manufacturing;
- 442
- 443 xiv) Miscellaneous industrial adhesives; and
- 444
- 445 xv) Auto and light-duty truck assembly coating;
- 446
- 447 C) The following cleaning operations shall be exempt from the
- 448 requirements of subsections (b), (c), (f), and (g) of this Section:
- 449
- 450 i) Cleaning of solar cells, laser hardware, scientific
- 451 instruments, and high-precision optics;
- 452
- 453 ii) Cleaning conducted as part of performance laboratory tests
- 454 on coatings, adhesives, or inks; research and development
- 455 operations; or laboratory tests in quality assurance
- 456 laboratories;
- 457
- 458 iii) Cleaning of paper-based gaskets and clutch assemblies
- 459 where rubber is bonded to metal by means of an adhesive;
- 460
- 461 iv) Cleaning of cotton swabs to remove cottonseed oil before
- 462 cleaning of high-precision optics;
- 463
- 464 v) Cleaning of medical device and pharmaceutical
- 465 manufacturing facilities using no more than 1.5 gallons per
- 466 day of solvents;
- 467
- 468 vi) Cleaning of adhesive application equipment used for thin
- 469 metal laminating;
- 470
- 471 vii) Cleaning of electronic or electrical cables;
- 472

- 473 viii) Touch-up cleaning performed on printed circuit boards
- 474 where surface mounted devices have already been attached;
- 475
- 476 ix) Cleaning of coating and adhesive application processes
- 477 utilized to manufacture transdermal drug delivery products
- 478 using no more than three gallons per day of ethyl acetate;
- 479
- 480 x) Cleaning of application equipment used to apply coatings
- 481 on satellites and radiation effect coatings;
- 482
- 483 xi) Cleaning of application equipment used to apply solvent-
- 484 borne fluoropolymer coatings;
- 485
- 486 xii) Cleaning of ultraviolet or electron beam adhesive
- 487 application;
- 488
- 489 xiii) Cleaning of sterilization indicating ink application
- 490 equipment if the facility uses no more than 1.5 gallons per
- 491 day of solvents for such cleaning;
- 492
- 493 xiv) Cleaning of metering rollers, dampening rollers, and
- 494 printing plates;
- 495
- 496 xv) Cleaning of numismatic dies; and
- 497
- 498 xvi) Cleaning operations associated with digital printing.
- 499

500 b) Material and Control Requirements. No owner or operator of a source subject to
501 this Section shall perform any cleaning operation subject to this Section unless the
502 owner or operator meets the requirements in subsection (b)(1), (b)(2), or (b)(3):

503

504 1) The VOM content of the as-used cleaning solutions (~~minus water and any~~
505 ~~compounds that are specifically exempted from the definition of VOM~~)
506 does not exceed the following emissions limitations:

507

508 A) Product cleaning during manufacturing process
509 or surface preparation for coating, adhesive, or
510 ink application:

511

	kg/l	lb/gal
i) Electrical apparatus components and electronic components	0.10	0.83

512
513
514

ii) Medical device and pharmaceutical manufacturing 0.80 6.7

B) Repair and maintenance cleaning:

		kg/l	lb/gal
i)	Electrical apparatus components and electronic	0.10	0.83

ii) Medical device and pharmaceutical manufacturing: tools, equipment, and machinery 0.80 6.7

iii) Medical device and pharmaceutical manufacturing: general work surfaces 0.60 5.0

515
516
517

C) Cleaning of ink application equipment:

		kg/l	lb/gal
i)	Rotogravure printing that does not print flexible packaging	0.10	0.83

ii) Screen printing 0.50 4.2

iii) Ultraviolet ink and electron beam ink application equipment, except screen printing 0.65 5.4

iv) Flexographic printing that does not print flexible packaging 0.10 0.83

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		kg/l	lb/gal
D)	All other cleaning operations not subject to a specific limitation in subsections (b)(1)(A) through (b)(1)(C) of this Section	0.050	0.42

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2) The composite vapor pressure of each as-used cleaning solution used does not exceed 8.0 mmHg measured at 20°C (68°F); or

3) An afterburner or carbon adsorber is installed and operated that reduces VOM emissions from the subject cleaning operation by at least 85 percent overall. The owner or operator may use an emissions control system other

526 than an afterburner or carbon adsorber if such device reduces VOM
527 emissions from the subject cleaning operation by at least 85 percent
528 overall, the owner or operator submits a plan to the Agency detailing
529 appropriate monitoring devices, test methods, recordkeeping requirements,
530 and operating parameters for such control device, and such plan is
531 approved by the Agency and USEPA within federally enforceable permit
532 conditions.

533
534 c) The owner or operator of a subject source shall demonstrate compliance with this
535 Section by using the applicable test methods and procedures specified in
536 subsection (g) of this Section and by complying with the recordkeeping and
537 reporting requirements specified in subsection (e) of this Section.

538
539 d) Operating Requirements. The owner or operator of a source subject to the
540 requirements of this Section shall comply with the following for each subject
541 cleaning operation:

542
543 1) Cover open containers and properly cover and store applicators used to
544 apply cleaning solvents;

545
546 2) Minimize air circulation around the cleaning operation;

547
548 3) Dispose of all used cleaning solutions, cleaning towels, and applicators
549 used to apply cleaning solvents in closed containers;

550
551 4) Utilize equipment practices that minimize emissions.

552
553 e) Recordkeeping and Reporting Requirements

554
555 1) The owner or operator of a source exempt from the limitations of this
556 Section because of the criteria in Section 219.187(a)(1) of this Subpart
557 shall comply with the following:

558
559 A) By April 1, 2011, or upon initial start-up of the source, whichever
560 is later, submit a certification to the Agency that includes:

561
562 i) A declaration that the source is exempt from the
563 requirements of this Section because of the criteria in
564 Section 219.187(a)(1);

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566 ii) Calculations that demonstrate that combined emissions of
567 VOM from cleaning operations at the source never equal or

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exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment;

- B) Notify the Agency of any record that shows that the combined emissions of VOM from cleaning operations at the source ever equal or exceed 6.8 kg/day (15 lbs/day), in the absence of air pollution control equipment, within 30 days after the event occurs.
- 2) All sources subject to the requirements of this Section shall:
 - A) By April 1, 2011, or upon initial start-up of the source, whichever is later, submit a certification to the Agency that includes:
 - i) A declaration that all subject cleaning operations are in compliance with the requirements of this Section;
 - ii) Identification of each subject cleaning operation and each VOM-containing cleaning solution used as of the date of certification in such operation;
 - iii) If complying with the emissions control system requirement, what type of emissions control system will be used;
 - iv) Initial documentation that each subject cleaning operation will comply with the applicable limitation, including copies of manufacturer's specifications, test results (if any), formulation data, and calculations;
 - v) Identification of the methods that will be used to demonstrate continuing compliance with the applicable limitations;
 - vi) A description of the practices and procedures that the source will follow to ensure compliance with the limitations in Section 219.187(d); and
 - vii) A description of each cleaning operation exempt pursuant to Section 219.187(a)(2), if any, and a listing of the emission units on which the exempt cleaning operation is performed;

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- B) At least 30 calendar days before changing the method of compliance between subsections (b)(1) or (b)(2) and subsection (b)(3) of this Section, notify the Agency in writing of such change. The notification shall include a demonstration of compliance with the newly applicable subsection;

- 3) All sources complying with this Section pursuant to the requirements of subsection (b)(1) of this Section shall collect and record the following information for each cleaning solution used:
 - A) For each cleaning solution that is prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) The VOM content of each cleaning solvent in the cleaning solution;
 - iii) Each change to the setting of the automatic equipment, with date, time, description of changes in the cleaning solution constituents (e.g., cleaning solvents), and a description of changes to the proportion of cleaning solvent and water (or other non-VOM);
 - iv) The proportion of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution;
 - v) The VOM content of the as-used cleaning solution, with supporting calculations; and
 - vi) A calibration log for the automatic equipment, detailing periodic checks;

 - B) For each batch of cleaning solution that is not prepared at the source with automatic equipment:
 - i) The name and identification of each cleaning solution;
 - ii) Date, time of preparation, and each subsequent modification of the batch;
 - iii) The VOM content of each cleaning solvent in the cleaning solution;

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- iv) The total amount of each cleaning solvent and water (or other non-VOM) used to prepare the as-used cleaning solution; and
 - v) The VOM content of the as-used cleaning solution, with supporting calculations. For cleaning solutions that are not prepared at the site but are used as purchased, the manufacturer's specifications for VOM content may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(a) of this Part;
- 4) All sources complying with this Section pursuant to the requirements of subsection (b)(2) of this Section shall collect and record the following information for each cleaning solution used:
- A) The name and identification of each cleaning solution;
 - B) Date, time of preparation, and each subsequent modification of the batch;
 - C) The molecular weight, density, and VOM composite partial vapor pressure of each cleaning solvent, as determined in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;
 - D) The total amount of each cleaning solvent used to prepare the as-used cleaning solution; and
 - E) The VOM composite partial vapor pressure of each as-used cleaning solution, as determined in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;
- 5) All sources complying with this Section pursuant to the requirements of subsection (b)(3) of this Section shall comply with the following:
- A) By April 1, 2011, or upon initial start-up of the source, whichever is later, and upon initial start-up of a new emissions control system, include in the certification required by subsection (e)(3) of this Section a declaration that the monitoring equipment required

- 695 under Section 219.187(f) of this Subpart has been properly
696 installed and calibrated according to manufacturer's specifications;
697
- 698 B) If testing of an emissions control system is conducted pursuant to
699 Section 219.187(g) of this Subpart, the owner or operator shall,
700 within 90 days after conducting such testing, submit a copy of all
701 test results to the Agency and shall submit a certification to the
702 Agency that includes the following:
703
- 704 i) A declaration that all tests and calculations necessary to
705 demonstrate compliance with Section 219.187(b)(3) of this
706 Subpart have been properly performed;
707
 - 708 ii) A statement whether the subject cleaning operation is or is
709 not in compliance with Section 219.187(b)(3) of this
710 Subpart; and
711
 - 712 iii) The operating parameters of the emissions control system
713 during testing, as monitored in accordance with Section
714 219.187(f) of this Subpart;
715
- 716 C) Collect and record daily the following information for each
717 cleaning operation subject to the requirements of Section
718 219.187(b)(3) of this Subpart:
719
- 720 i) Emissions control system monitoring data in accordance
721 with Section 219.187(f) of this Subpart, as applicable;
722
 - 723 ii) A log of operating time for the emissions control system,
724 monitoring equipment, and associated cleaning equipment;
725
 - 726 iii) A maintenance log for the emissions control system and
727 monitoring equipment detailing all routine and non-routine
728 maintenance performed, including dates and duration of
729 any outages;
730
- 731 D) Maintain records documenting the use of good operating practices
732 consistent with the equipment manufacturer's specifications for the
733 cleaning equipment being used and the emissions control system
734 equipment. At a minimum, these records shall include:
735
- 736 i) Records for periodic inspection of the cleaning equipment
737 and emissions control system equipment with date of

- 738 inspection, individual performing the inspection, and nature
 739 of inspection;
 740
 741 ii) Records for repair of malfunctions and breakdowns with
 742 identification and description of incident, date identified,
 743 date repaired, nature of repair, and the amount of VOM
 744 released into the atmosphere as a result of the incident;
 745
 746 6) All sources subject to the requirements of subsections (b) and (d) of this
 747 Section shall notify the Agency of any violation of subsection (b) or (d) by
 748 providing a description of the violation and copies of records documenting
 749 the violation to the Agency within 30 days following the occurrence of the
 750 violation;
 751
 752 7) All records required by this subsection (e) shall be retained by the source
 753 for at least three years and shall be made available to the Agency upon
 754 request.
 755
 756 f) Monitoring Requirements
 757
 758 1) If an afterburner or carbon adsorber is used to demonstrate compliance,
 759 the owner or operator of a source subject to Section 219.187(b)(3) of this
 760 Subpart shall:
 761
 762 A) Install, calibrate, operate, and maintain temperature monitoring
 763 devices with an accuracy of 3°C or 5°F on the emissions control
 764 system in accordance with Section 219.105(d)(2) of this Part and
 765 in accordance with the manufacturer's specifications. Monitoring
 766 shall be performed at all times when the emissions control system
 767 is operating; and
 768
 769 B) Install, calibrate, operate and maintain, in accordance with
 770 manufacturer's specifications, a continuous recorder on the
 771 temperature monitoring devices, such as a strip chart, recorder or
 772 computer, with at least the same accuracy as the temperature
 773 monitor;
 774
 775 2) If an emissions control system other than an afterburner or carbon
 776 adsorber is used to demonstrate compliance, the owner or operator of a
 777 source subject to Section 219.187(b)(3) of this Subpart shall install,
 778 maintain, calibrate, and operate such monitoring equipment as set forth in
 779 the owner's or operator's plan approved by the Agency and USEPA
 780 pursuant to Section 219.187(b)(3).

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- g) Testing Requirements
 - 1) Testing to demonstrate compliance with the requirements of this Section shall be conducted by the owner or operator within 90 days after a request by the Agency, or as otherwise specified in this Section. Such testing shall be conducted at the expense of the owner or operator and the owner or operator shall notify the Agency in writing 30 days in advance of conducting the testing to allow the Agency to be present during the testing;
 - 2) Testing to demonstrate compliance with the VOM content limitations in Section 219.187(b)(1) of this Subpart, and to determine the VOM content of cleaning solvents and cleaning solutions, shall be conducted as follows:
 - A) The applicable test methods and procedures specified in Section 219.105(a) of this Part shall be used; provided, however, Method 24, incorporated by reference in Section 219.112 of this Part, shall be used to demonstrate compliance; or
 - B) The manufacturer's specifications for VOM content for cleaning solvents may be used if such manufacturer's specifications are based on results of tests of the VOM content conducted in accordance with methods specified in Section 219.105(a) of this Part; provided, however, Method 24 shall be used to determine compliance;
 - 3) Testing to determine the VOM composite partial vapor pressure of cleaning solvents, cleaning solvent concentrates, and as-used cleaning solutions shall be conducted in accordance with the applicable methods and procedures specified in Section 219.110 of this Part;
 - 4) For afterburners and carbon adsorbers, the methods and procedures of Section 219.105(d) through (f) shall be used for testing to demonstrate compliance with the requirements of Section 219.187(b)(3) of this Subpart, as follows:
 - A) To select the sampling sites, Method 1 or 1A, as appropriate, 40 CFR 60, ~~appendix~~Appendix A, incorporated by reference in Section 219.112 of this Part;
 - B) To determine the volumetric flow rate of the exhaust stream, Method 2, 2A, 2C, or 2D, as appropriate, 40 CFR 60,

824 ~~appendix~~Appendix A, incorporated by reference in Section
 825 219.112 of this Part;

826
 827 C) To determine the VOM concentration of the exhaust stream
 828 entering and exiting the emissions control system, Method 25 or
 829 25A, as appropriate, 40 CFR 60, ~~appendix~~Appendix A,
 830 incorporated by reference in Section 219.112 of this Part. For
 831 thermal and catalytic afterburners, Method 25 must be used except
 832 under the following circumstances, in which case Method 25A
 833 must be used:

- 834
- 835 i) The allowable outlet concentration of VOM from the
 836 emissions control system is less than 50 ppmv, as carbon;
 837
- 838 ii) The VOM concentration at the inlet of the emissions
 839 control system and the required level of control result in
 840 exhaust concentrations of VOM of 50 ppmv, or less, as
 841 carbon; and
 842
- 843 iii) Due to the high efficiency of the emissions control system,
 844 the anticipated VOM concentration at the emissions control
 845 system exhaust is 50 ppmv or less, as carbon, regardless of
 846 inlet concentration. If the source elects to use Method 25A
 847 under this option, the exhaust VOM concentration must be
 848 50 ppmv or less, as carbon, and the required destruction
 849 efficiency must be met for the source to have demonstrated
 850 compliance. If the Method 25A test results show that the
 851 required destruction efficiency apparently has been met, but
 852 the exhaust concentration is above 50 ppmv, as carbon, a
 853 retest is required. The retest shall be conducted using
 854 either Method 25 or Method 25A. If the retest is conducted
 855 using Method 25A and the test results again show that the
 856 required destruction efficiency apparently has been met, but
 857 the exhaust concentration is above 50 ppmv, as carbon, the
 858 source must retest using Method 25;

860 D) During testing, the cleaning equipment shall be operated at
 861 representative operating conditions and flow rates;

862
 863 5) An owner or operator using an emissions control system other than an
 864 afterburner or carbon adsorber shall conduct testing to demonstrate
 865 compliance with the requirements of Section 219.187(b)(3) of this Subpart
 866 as set forth in the owner's or operator's plan approved by the Agency and

867 USEPA as federally enforceable permit conditions pursuant to Section
868 219.187(b)(3) of this Subpart.

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(Source: Amended at 34 Ill. Reg. _____, effective _____)