

ILLINOIS POLLUTION CONTROL BOARD
December 5, 1986

IN THE MATTER OF:)
)
VOLATILE ORGANIC MATERIAL) R82-14
EMISSIONS FROM STATIONARY)
SOURCES: RACT III)

PROPOSED RULE SECOND NOTICE

OPINION AND ORDER OF THE BOARD (by B. Forcade):

This matter comes before the Board on an August 26, 1985, Illinois Environmental Protection Agency ("Agency") motion to reopen the record in this regulatory proceeding concerning the internal offset rule (Section 215.207), coke manufacture and by-product recovery (Part 215, Subpart U) and petroleum solvent dry cleaners (Part 215, Subpart Z). That motion was granted and hearings were authorized on September 20, 1985. This opinion and order addresses the Agency's regulatory proposal regarding petroleum dry cleaners.

The Agency amended its regulatory proposal on November 25, 1985. Hearings were held December 2 and 3, 1985, in Chicago and March 20 and 21, 1986, in Bolingbrook. The Agency made final amendments to its proposal on May 8, 1986, in response to testimony and comments made at hearing by the Illinois Fabricare Association ("IFA"). The Department of Energy and Natural Resources ("DENR") issued a letter of negative declaration of economic impact, obviating the need for further economic analysis of the proposed rules, on March 24, 1986. The concurrence of the Economic and Technical Advisory Committee to the DENR was filed on May 22, 1986. The record in this matter closed on June 12, 1986 (Hearing Officer Order, May 29, 1986).

On September 11, 1986, the Board proposed regulatory language for first notice comment which was published at 10 Ill. Reg. 16142, October 3, 1986. The statutory 45-day comment period ended on November 17, 1986. The Agency filed first notice comments on October 24, 1986 (P.C. 97). The Administrative Code Unit of the Secretary of State's Office also filed comments regarding non-substantive format changes. Those changes have been incorporated in the second notice order.

A detailed discussion of the evidence and Board resolution of the issues is provided in the September 11, 1986, Opinion in this matter and will not be repeated here. However, a brief summary is provided. Today's proposal is one of a series of Board actions directed at promulgating rules implementing reasonably available control technology ("RACT") for the control

of ozone precursors from existing major stationary sources (emissions greater than 100 tons/year). The implementation of RACT in non-attainment areas for ozone is required as part of a federally approvable state implementation plan under the federal Clean Air Act, 42 U.S.C. 7401 et seq. The proposed rules would control volatile organic material (VOM) emissions from major stationary batch process petroleum dry cleaning facilities. Specific emission sources to be controlled are the dryers, solvent filtration systems and miscellaneous fugitive sources. Two Illinois plants would be regulated by these proposed rules; both are located in an ozone non-attainment area. Total emission reductions under these rules would be 133 tons/year at a cost ranging from \$350 per ton to \$650 per ton.

The Agency's first notice comments respond to a Board request in the September 11, 1986, Opinion regarding proposed Section 215.612(b). That subsection provided that should an attainment county be redesignated as non-attainment at some point in the future that the regulations shall be applicable to that county and contiguous counties. The Agency moves to withdraw that subsection as it is of dubious legality and is not considered an essential element or necessary for federal approval (P.C. 97). That subsection, along with Section 215.613(b) and (c), is withdrawn at second notice. In response to the Administrative Code Unit's comments, Section 215.610(b) and (c) are modified at second notice as follows: "subsection" and "subsections" are changed to "Section."

As a final matter, the Board has modified the deadline for submission of a compliance plan. Under the language of Section 215.613(a) proposed at first notice, the deadline for compliance plans is December 31, 1986, which is clearly not a feasible date. The Board will propose instead, the date of May 31, 1987. The Board will withhold the submission of this second notice to the Joint Committee on Administrative Rules for one week to allow the Agency to comment on the feasibility of this new deadline as it relates to the state's SIP application to the United States Environmental Protection Agency.

ORDER

The Clerk of the Pollution Control Board is directed to submit the following proposed rule to the Joint Committee on Administrative Rules for second notice review:

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

PART 215

ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS

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215.122	Loading Operations
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Section
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215.421 Inspection Program Plan for Leaks
215.422 Inspection Program for Leaks
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SUBPART R: PETROLEUM REFINING AND RELATED
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Section
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215.447 Monitoring Program for Leaks
215.448 Recordkeeping for Leaks
215.449 Reporting for Leaks
215.450 Alternative Program for Leaks
215.451 Sealing Device Requirements
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Section
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Section
215.601 Perchloroethylene Dry Cleaners
215.602 Exemptions
215.603 Testing and Monitoring
215.604 Compliance Dates and Geographical Areas
215.605 Compliance Plan
215.606 Exception to Compliance Plan
215.607 Standards for Petroleum Solvent Dry Cleaners
205.608 Operating Practices for Petroleum Solvent Dry Cleaners
215.609 Program for Inspection and Repair of Leaks
215.610 Testing and Monitoring
215.611 Exemption for Petroleum Solvent Dry Cleaners
215.612 Compliance Dates and Geographical Areas
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Appendix A Rule into Section Table
Appendix B Section into Rule Table
Appendix C Past Compliance Dates
Appendix D List of Chemicals Defining Synthetic Organic
Chemical and Polymer Manufacturing

PART 215
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS

SUBPART A: GENERAL PROVISIONS

Section 215.104 Definitions

"Volatile Organic Material": Any organic material which has a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3 K (70 F). For purposes of this definition, the following are not volatile organic materials:

Methane	Dichlorodifluoromethane
Ethane	Chlorodifluoromethane
1,1,1-trichloroethane	Trifluoromethane
Methylene chloride	Trichlorotrifluoroethane
Trichlorofluoromethane	Chloropentafluoroethane

For purposes of the following Sections, volatile organic materials are any organic materials having the corresponding vapor pressures at 294.3 K (70 F):

<u>Sections</u>	<u>Vapor Pressure</u>
215.181 - 215.184	0.013 kPa (.0019 psia)
215.104 - 215.209	0.013 kPa (.0019 psia)
215.340 - 215.345	0.013 kPa (.0019 psia)
215.401 - 215.408	0.013 kPa (.0019 psia)
215.420 - 215.428	0.013 kPa (.0019 psia)
215.441 - 215.444	10.34 kPa (1.5 psia)
215.445 - 215.451	0.013 kPa (.0019 psia)
215.461 - 215.464	0.013 kPa (.0019 psia)
215.510 - 215.513	0.013 kPa (.0019 psia)
215.601 - 215.603 <u>13</u>	0.013 kPa (.0019 psia)

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

SUBPART Z: DRY CLEANERS

Section 215.607 Standards for Petroleum Solvent Dry Cleaners

- a) The owner or operator of a petroleum solvent dry cleaning dryer shall either:
 - 1) Limit emissions of volatile organic material to the atmosphere to an average of 3.5 kilograms of volatile organic material per 100 kilograms dry weight of articles dry cleaned, or
 - 2) Install and operate a solvent recovery dryer in a manner such that the dryer remains closed and the recovery phase continues until a final solvent flow rate of 50 milliliters per minute is attained.
- b) The owner or operator of a petroleum solvent filtration system shall either:

- 1) Reduce the volatile organic material content in all filtration wastes to 1.0 kilogram or less per 100 kilograms dry weight of articles dry cleaned, before disposal, and exposure to the atmosphere, or
- 2) Install and operate a cartridge filtration system, and drain the filter cartridges in their sealed housings for 8 hours or more before their removal

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 215.608 Operating Practices for Petroleum Solvent Dry Cleaners

The owner or operator of a petroleum solvent dry cleaning facility shall employ good housekeeping practices to minimize fugitive solvent emissions including, but not limited to, the following:

a) General Housekeeping Requirements

- 1) Equipment containing solvent (washers, dryers, extractors and filters) shall remain closed at all times except during load transfer and maintenance. Lint filter and button trap covers shall remain closed except when solvent-laden material is being removed.
- 2) Cans, buckets, barrels and other containers of solvent or of solvent-laden material shall be covered except when in use.
- 3) Solvent-laden material shall be exposed to the atmosphere only for the minimum time necessary for load transfer.

b) Installation and operation of equipment

- 1) All cartridge filters shall be installed and operated in accordance with the procedures and specifications recommended by the manufacturer for the cartridge filter.
 - A) After installation, the cartridges shall be inspected, monitored and maintained in accordance with the manufacturer's recommendations, and
 - B) Operators shall be thoroughly familiar with the filtration system's performance, safety and maintenance requirements.

- 2) Vents on containers for new solvent and for solvent-containing waste shall be constructed and maintained so as to minimize solvent vapor emissions.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 215.609 Program for Inspection and Repair of Leaks

- a) The owner or operator of a petroleum solvent dry cleaning facility shall conduct the following visual inspections on a weekly basis:
 - 1) Washers, dryers, solvent filters, settling tanks, vacuum stills and containers and conveyors of petroleum solvent shall be inspected for visible leaks of solvent liquid.
 - 2) Pipes, hoses and fittings shall be inspected for active dripping or dampness.
 - 3) Pumps and filters shall be inspected for leaks around seals and access covers.
 - 4) Gaskets and seals shall be inspected for wear and defects.
 - 5) All other potential sources of fugitive emissions shall be inspected for evidence of leaks.
- b) Leaks of petroleum solvent liquid and vapors shall be repaired within three working days of detection, unless necessary replacement parts are not on site.
 - 1) If necessary, repair parts shall be ordered within three working days of detection of the leak.
 - 2) The leak shall be repaired within three days of delivery of necessary parts.

(Source: Added at ____ Ill. Reg. _____, effective _____)

Section 215.610 Testing and Monitoring

- a) Compliance with Sections 215.607(b)(2), 215.608 and 215.609 shall be determined by visual inspection; and
- b) Compliance with Sections 215.607(a)(2) and (b)(1) shall be determined by methods described in EPA-450/3-82-009 or by procedures approved by the USEPA.

c) If a control device is used to comply with Section 215.607(a)(1), then compliance shall be determined using 40 CFR 60 Appendix A, Method 25 (1984).

(Source: Added at ___ Ill. Reg. ____, effective _____)

Section 215.611 Exemption for Petroleum Solvent Dry Cleaners

The provisions of Sections 215.607 through 215.610 shall not apply to petroleum solvent dry cleaning facilities whose emissions of volatile organic material do not exceed 91 megagrams (100 tons) per year in the absence of pollution control equipment or whose emissions of volatile organic material, as limited by the operating permit, will not exceed 91 megagrams (100 tons) per year in the absence of pollution control equipment.

(Source: Added at ___ Ill. Reg. ____, effective _____)

Section 215.612 Compliance Dates and Geographical Areas

Owners and operators of emission sources located in the counties listed below shall comply with the requirements of Sections 215.607 through 215.609 as expeditiously as practicable but no later than December 31, 1987:

- | | |
|-----------------|------------------|
| <u>Cook</u> | <u>Madison</u> |
| <u>DuPage</u> | <u>McHenry</u> |
| <u>Kane</u> | <u>Monroe</u> |
| <u>Lake</u> | <u>St. Clair</u> |
| <u>Macoupin</u> | <u>Will</u> |

(Source: Added at ___ Ill. Reg. ____, effective _____)

Section 215.613 Compliance Plan

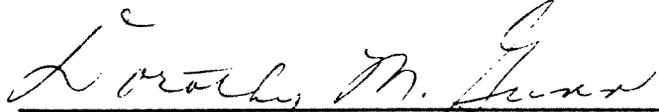
a) The owner or operator of an emission source subject to Section 215.610(a) shall submit to the Agency a compliance plan, including a project completion schedule where applicable, no later than May 31, 1987.

b) The plan and schedule shall meet the requirements of 35 Ill. Adm. Code 201.

(Source: Added at ___ Ill. Reg. ____, effective _____)

IT IS SO ORDERED.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Opinion and Order was adopted on the 5th day of December, 1986, by a vote of 6-0.



Dorothy M. Gunn, Clerk
Illinois Pollution Control Board