

ILLINOIS POLLUTION CONTROL BOARD  
August 13, 1992

IN THE MATTER OF: )  
 )  
STAGE II GASOLINE VAPOR RECOVERY ) R91-30  
RULES: AMENDMENTS TO 35 ILL. ADM. ) (Rulemaking)  
CODE PARTS 215, 218, AND 219. )

Adopted Rule.

Final Order.

OPINION AND ORDER OF THE BOARD (by R.C. Flemal):

Today the Board adopts, pursuant to a proposal submitted by the Illinois Environmental Protection Agency (Agency), regulations for the installation and operation of systems for recovery of gasoline vapor emissions from the fueling of motor vehicles. These regulations are effectuated through amendments to the Board's reasonably available control technology (RACT) regulations found at 35 Ill. Adm. Code 215, 218, and 219<sup>1</sup>. Pursuant to Section 182(b)(3) of the Federal Clean Air Act Amendments of 1990, Public Law 101-549 (CAAA), Illinois is to submit these regulations for the recovery of gasoline vapors as a revision to its state implementation plan (SIP) by November 15, 1992.

Also in this docket the Board adopts non-substantive changes to Section 215.123 involving the form of the incorporation by reference. Although not part of the Agency's proposal, the Board believes this docket serves as a means to make that section conform to current requirements.

The Board wishes to acknowledge the special contribution made to this proceeding by Board attorney Michelle C. Dresdow in her roles as hearing officer, contact person, and advisor in drafting of the several opinions and orders.

PROCEDURAL HISTORY

In anticipation of the need to promulgate regulations required under Title I of the CAAA, the Board on October 24, 1991

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<sup>1</sup> The Chicago area RACT regulations are found at Part 218; the Metro-East area RACT regulations occur at Part 219; Part 215 contains RACT regulations applicable to areas other than the Chicago and Metro-East nonattainment areas.

opened this and several related dockets<sup>2</sup>. The expressed purpose of opening these dockets was to:

- 1) Facilitate notification of the pending rulemakings;
- 2) Solicit views of interested persons on the timing of the various rulemaking proceedings;
- 3) Ensure, to the maximum extent possible, that the rulemakings would be completed in a timely fashion.

Action in several of these dockets has now been completed; several others are currently active, and in several other dockets proposals have yet to be filed with the Board. In the immediate docket the Agency filed its proposal for rulemaking on January 22, 1992.

The Board accepted the proposal for hearing by order of February 6, 1992. By the same order the Board accepted the Agency's certification that this rulemaking is federally required pursuant to Section 28.2 of the Environmental Protection Act (Act), Ill. Rev. Stat. 1991, ch. 111½, par. 1028.2, as amended by P.A. 86-1409.

On February 27, 1992, the Board sent the proposal to first notice, pursuant to Section 5.01 of the Illinois Administrative Procedure Act (APA), Ill. Rev. Stat. 1991, ch. 127, par. 1001 et seq. First notice publication occurred on March 20, 1992 at 16 Ill. Reg. 4170, 4184, and 4200 (for Parts 215, 218, and 219, respectively). The Board took no substantive position on the merits of the proposal as part of the first notice adoption order, and made only minor nonsubstantive changes to the rules as proposed by the Agency in order to conform to Administrative Code Division requirements. Hearings were held on March 30, 1992 in Chicago, and on April 2, 1992 in Collinsville.

On June 4, 1992, the Board issued a second notice opinion and order wherein it addressed concerns raised at hearing and in public comments. The Board sent the then proposed amendments to the Joint Committee on Administrative Rules (JCAR) pursuant to the APA requirements. Interested persons are referred to the June 4, 1992 opinion and order for a detailed discussion of the issues raised. On July 21, 1992, JCAR issued its certificate of no objection to the amendments. Today the Board adopts the

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<sup>2</sup> Covered in this package are regulations directed to facets of RACT, Stage II vapor recovery, employee trip reduction, SO<sub>2</sub> emissions, and PM-10 control, as found in Board dockets R91-27 through R91-37.

amendments in the same form as proposed at second notice. We now proceed with a discussion of the enabling legislation followed by description of the amendments.

#### FEDERAL AND STATE LAWS

The CAAA require that owners or operators of gasoline dispensing facilities located in nonattainment areas for ozone designated as moderate or above (i.e., serious, severe, or extreme) install and operate gasoline vehicle refueling vapor recovery systems (Stage II systems). The Chicago nonattainment area has been designated by the United States Environmental Protection Agency (USEPA) as "severe", and the Metro-East nonattainment area has been designated by USEPA as "moderate". The CAAA require in pertinent part:

(3) GASOLINE VAPOR RECOVERY

(A) GENERAL RULE

Not later than 2 years after November 15, 1990, the State shall submit a revision to the applicable implementation plan to require all owners or operators of gasoline dispensing systems to install and operate, by the date prescribed under subparagraph (B), a system for gasoline vapor recovery of emissions from the fueling of motor vehicles.  
\* \* \* (42 USC 7511a(b)(3)).

To enable the State of Illinois to comply with these requirements, the state legislature amended Section 10 of the Act to mandate that the Board adopt gasoline vapor recovery regulations<sup>3</sup>:

The Board shall adopt regulations requiring the owner or operator of a gasoline dispensing system that dispenses more than 10,000 gallons of gasoline per month to install and operate a system for the recovery of gasoline vapor emissions arising from the fueling of motor vehicles that meets the requirements of Section 182 of the federal Clean Air Act (42 USC 7511a). These regulations shall apply only in areas of the State that are classified as moderate, serious, severe or extreme nonattainment

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<sup>3</sup> The Act at Section 10 had previously contained a prohibition against Board adoption of regulations requiring Stage II systems in Illinois. That prohibition remained in effect until the legislature's action in response to the CAAA noted here.

areas for ozone pursuant to Section 181 of the federal Clean Air Act (42 USC 7511), but shall not apply to areas classified as moderate nonattainment areas for ozone if the Administrator of [USEPA] promulgates standards for vehicle-based (onboard) systems for the control of vehicle refueling emissions pursuant to Section 202(a)(6) of the federal Clean Air Act (42 USC 7521(a)(6) by November 15, 1992<sup>[4]</sup>. (Ill. Rev. Stat. 1989, ch. 111½, par. 1010)

The adopted amendments apply to gasoline dispensing facilities located in the Chicago nonattainment area counties of Cook, DuPage, Kane, Lake, McHenry, and Will, as well as Oswego Township in Kendall County and Aux Sable and Goose Lake Townships in Grundy County<sup>5</sup>; and the Metro-East nonattainment area, consisting of Madison, Monroe, and St. Clair Counties.

#### PUBLIC HEARING AND COMMENTS

In addition to testimony presented by the Agency, testimony was given by Ron L. Burke of the Chicago Lung Association in association with the American Lung Association and the Illinois Chapter of the Sierra Club, and Philip S. Bush of Amoco Oil Company and Daniel H. Moenter of Marathon Oil Company, as introduced by David A. Sykuta of the Illinois Petroleum Council.

The Board received 12 public comments (PC) during the 45-day first notice comment period. These are:

1. USEPA, submitted by Stephen Rothblatt, Chief, Regulation Development Branch

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<sup>4</sup> USEPA has decided not to promulgate regulations for on-board gasoline vapor recovery at this time. (57 Fed. Reg. 13220, April 15, 1992.)

<sup>5</sup> Oswego Township in Kendall County and Aux Sable and Goose Lake Townships in Grundy County are added to the Chicago area nonattainment area in a collateral rulemaking proceeding for which the Board also takes final action today. See, In the Matter of: Expansion of Applicability of Reasonably Available Control Technology for Ozone to Goose Lake and Aux Sable Townships in Grundy County, Illinois, and Oswego Township in Kendall County, Illinois: Amendments to 35 Ill. Adm. Code Parts 215 and 218 R91-28, August 13, 1992.



2. The Illinois Department of Energy and Natural Resources on the Appropriateness of an Economic Impact Study, submitted by Stanley Yonkauski
3. City of Chicago on the Proposed Rules for Stage II Gasoline Vapor Recovery Rules, submitted by Henry L. Henderson, Commissioner, Department of Environment, City of Chicago
4. USEPA, submitted by Stephen Rothblatt, Chief, Regulation Development Branch
5. Connie Bradway, Administrative Code Division (Parts 215, 218, and 219)
6. Agency, submitted by Kathleen C. Bassi
7. USEPA, submitted by Stephen Rothblatt, Chief, Regulation Development Branch
8. Ford Motor Company on Stage II Vapor Recovery, submitted by John C. Baguzis
9. Outboard Marine Corporation, submitted by Robert Evangelisti, P.E., Manager, Environmental Compliance
10. The Bureau of Business Development
11. Waukegan Port District, submitted by Mary S. Walker, Harbor Manager
12. Mobil Corporation, submitted by Robert S. Elvert, Environmental Regulatory Advisor

The Board received 2 additional comments after the close of the public comment period. These include comments of Larsen Marine Service, submitted by Jerry Larsen (PC #13), and supplemental comments submitted by the Agency (PC #14). As noted above, the Board responded to the comments and testimony in its June 4, 1992 opinion and order.

#### TECHNICAL ASPECTS OF STAGE II VAPOR CONTROL

Stage II vapor recovery systems are designed to control and capture hydrocarbon vapors during the fueling of vehicle tanks. Vehicle fuel emissions consist of gasoline vapors displaced from the automobile tank by dispensed liquid gasoline as the tank is filled. The Stage II system captures vapors as they exit the vehicle's fuel fillpipe, thereby preventing the vapors' escape into the atmosphere. The captured vapors flow through a vapor passage in the fuel pump nozzle into a vapor hose and then

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through a plumbing system to the underground storage tank. The gasoline withdrawn from the storage tank creates a void in the storage tank which is filled by the collected vapors. The recovered vapors further prevent the evaporation of liquid gasoline in the underground storage tank. (St. at 6; Exh. 8 at 1.<sup>6</sup>)

Three basic types of Stage II systems are in use in the United States. These are the vapor balance system, the vacuum assist system, and the aspirator assist or hybrid system. The vapor balance system is the most commonly-used system. In general, these three types of systems differ based on whether they use a "balance" method or "vacuum" method, or a combination of the two. In a balance system the vapors and liquid are "balanced" between the vehicle and underground storage tanks, using pressure to force the vapors from the fillpipe into the collection system. In a vacuum system a vacuum-generating device draws vapors from the fillpipe into the collection system. (Exh. 8 at 3-6.)

The Agency characterizes Stage II vapor recovery systems as "a proven technology" (St. at 6; Exh. 8 at 1); Stage II vapor systems have been a part of hydrocarbon emission control in California for some time. It was introduced in San Diego in 1974 and has become one of California's major volatile organic compound (VOC) control strategies. Sixteen areas in California designated as nonattainment for ozone have Stage II control programs in place, and it has been estimated that the program reduces hydrocarbon emissions in California by 48,000 tons annually and saves 15 million gallons of gasoline. (Exh. 8 at 1-2.)

The Agency reports that a number of other areas of the United States have also established Stage II systems. These include the District of Columbia, Missouri (St. Louis area), New Jersey, New York, Massachusetts, Philadelphia, and Florida (Dade County)<sup>7</sup>.

The Agency reports that Stage II systems are "effective in the control of vehicle refueling emissions" (St. at 7). The California Air Resources Board (CARB) certifies that Stage II systems used in California are at least 95% effective. (Exh. 8

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<sup>6</sup> Cites to the record will be as follows: Statement of Reasons as "St. at X"; the transcript of hearing as "Tr. at X" (only the 3/30/92 transcript is cited); exhibits as "Exh. X at X"; and public comments as PC #X at X"

<sup>7</sup> David Sykuta, Illinois Petroleum Council, testified that no states have established Stage II requirements where the state is in compliance with limits for ozone (Tr. at 61).

at 1.) The states and local agencies that have operational Stage II programs have demonstrated that 95% control of VOC emissions is practicable<sup>8</sup>. (St. at 7.)

Using gasoline consumption figures for the ozone nonattainment counties and the Stage II control and in-use efficiencies of 95% and 84%, the Agency calculated estimated emissions reductions for Stage II systems in Illinois. The calculations show that emissions reductions of nearly 32 tons per day for the Chicago area, and nearly 3 tons per day in the Metro-East area can be expected; total emissions reductions for the State are thus expected to be 35 tons per day<sup>9</sup>. (Exh. 8 at 17; Exh. 5 at 3.) The Agency reports that this reduction in emissions would be a "significant portion" of the CAAA-required 15% reduction in overall VOC emissions (Exh. 8 at 17).

CARB Certification. Minimum efficiency design requirements for control systems are contained in the general preamble of Title I of the CAAA. The CAAA prescribe that Stage II systems must be certified to have at least 95% control efficiency. (St. at 4.) Nearly all states and local agencies rely on CARB for Stage II system guidance due to CARB's expertise and experience with the systems. California state law requires that CARB develop methods and procedures for the certification of Stage II systems. CARB maintains a program that specifies by executive order those systems that have been tested and approved. The executive orders are maintained through a CARB manual (Exh. 3). These orders are routinely updated as new systems are certified<sup>10</sup>.

#### ECONOMIC CONSIDERATIONS

Affected Facilities. The state legislation and the CAAA specify that Stage II systems are required at gasoline dispensing facilities that dispense more than an average of 10,000 gallons of gasoline per month. The facilities covered include retail service stations and private fueling facilities (such as government and company fleet fueling facilities). (Exh. 4; St.

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<sup>8</sup> The record contains information that the in-use efficiency of Stage II systems has been estimated to vary between 92% and 62%, depending on the frequency of the inspection program. The Agency intends to conduct annual inspections; this has an associated installation in-use efficiency of 86% (Exh. 5).

<sup>9</sup> 13,000 tons annually (PC #6 at 4).

<sup>10</sup> The regulations as adopted today contain an incorporation by reference to the CARB manual. Pursuant to APA requirements, the regulations do not include any updates or amendments.

at 3.) The Agency's estimates indicate that "16,000 retail and private gasoline dispensing facilities are located in Illinois and that nearly 4400 are located in the ozone nonattainment areas and would be subject to the Stage II system requirements" (Exh. 4 at 5.) The Agency provides an estimate of affected facilities by county:

Table 3  
Number of Gasoline Dispensing  
Facilities Subject to Stage II Controls

<u>County</u>	<u>Retail</u>	<u>Private</u>
Cook	2453	446
DuPage	300	69
Grundy (portion)	9	0
Kane	143	28
Kendall (portion)	5	0
Lake	244	45
Madison	166	22
McHenry	84	16
Monroe	17	2
St. Clair	147	23
Will	<u>148</u>	<u>31</u>
Total	3716	682
Total retail and private facilities		<u>4,398</u>

Costs. The Agency has undertaken a cost analysis based upon consideration of the cost of each piece of necessary equipment, installation and maintenance costs, and monthly amount of gasoline throughput (see Exh. 6 at 1-4). From this analysis the Agency concludes that the total implementation costs would be \$17 million. The estimated annualized cost is expected to range from \$1331 to \$4954 per facility, with the smaller throughput facilities having the larger cost. (Id. at 4.) The average cost effectiveness, assuming a 35 ton per day reduction in emissions, is estimated at \$1330 per ton. (Id.)

The cost analysis includes cost savings to consumers. The Agency testified that in doing the cost analysis, the cost of gasoline recovered during the process was figured in the analysis. The Agency further stated that the price increase of a penny a gallon may have been a penny to two cents per gallon, had it not taken the cost of the recovered gasoline into account (Tr. at 31). The Agency estimates that Stage II systems will save approximately 4 million gallons of gasoline in Illinois (PC #6 at 4).

PROVISION-BY-PROVISION DISCUSSIONSection 215.123

The sole modification to this section consists of the addition of required language involving the incorporation by reference.

Sections 215.583, 218.583, 219.583 Gasoline Dispensing Facilities

The titles of these preexisting sections are amended to indicate that the provisions of the sections apply only to storage tank filling operations (Stage I controls). Stage II vapor recovery rules are provided in subsequent sections.

Section 218.586(a), 219.586(a)

These subsections include definitions specific to gasoline dispensing facilities. The definitions are necessary to clarify the requirements for implementation of Stage II vapor recovery systems as provided in the rules.

These subsections include a definition of "completion of installation" which contains testing procedures required to demonstrate that installation has been completed. The tests are the Dynamic Backpressure Test, Pressure Decay/Leak Test, or the Liquid Blockage Test.

Section 218.586(b), 219.586(b)

These subsections provide that any gasoline dispensing facility that dispenses an average monthly volume of motor vehicle fuel of more than 10,000 gallons is subject to Stage II vapor recovery requirements and is subject to the compliance schedule as provided in the CAAA.

Section 218.586(c), 219.586(c)

These subsections provide the specific requirements for the installation and operation of a Stage II system. Only CARB tested and certified systems may be used, the systems must be properly maintained and operated according to their certifications and manufacturers' specifications, the systems must not be operated when malfunctioning, operators and employees must be trained in proper operation and maintenance of the systems, and instructions for customers in the dispensing of motor fuel must be properly displayed. The Agency's inspection and enforcement programs would cite provisions of these subsections to allege violations of the rules.

These subsections are written to make it clear that CARB is the only entity to test systems for certification. Testing of

newly installed vapor recovery systems to determine if the system is operating properly is the responsibility of the owner or operator. This type of testing is distinct from testing required for certification. The tests which the owners or operators must perform at installation are included in Section 218/219.586(h)(1), and the definition of completion of installation at Section 218/219.586(a)(3).

Section 218.586(d), 219.586(d)

These subsections provide the compliance dates for affected facilities. These dates coincide with those required under the CAAA.

The Board notes as it did at second notice that remodeled facilities are not to be considered new facilities under these rules. The commenced construction language applies only to new facilities. (PC #6.) The schedule of compliance dates included in these subsections is needed for consistency with the CAAA requirements. (See 42 USC §7511a.)

Section 218.586(e), 219.586(e)

These subsections provide that once a facility becomes subject to Stage II requirements as provided in subsection (b), it will remain subject at all times.

Section 218.586(f), 219.586(f)

If a facility determines that it is exempt from the Stage II requirements provided in subsection (b), it is the facility's responsibility to retain such records and to provide such upon Agency request.

Section 218.586(g), 219.586(g)

These subsections specify that each facility shall retain records that demonstrate a CARB-approved system is being utilized, that the proper maintenance has been performed on the Stage II system, that all time periods when Stage II components have malfunctioned are clearly documented, that average monthly throughputs of motor vehicle fuel are maintained, and that operators and employees are properly trained and that they understand potential penalties. These records will be made available to Agency personnel during facility inspections.

The subsections include a requirement for keeping on-site only the registration material required under Section 218/219.586(h)(1), and the location of the records required under Section 218/219.586(g)(2), including the name, address, and phone number of the contact person for these records.

Section 218.586(h), 219.586(h)

These subsections exempt any facility subject to Stage II requirements from air pollution control permits required under Sections 201.142, 201.143 and 201.144 for the Stage II equipment. The exemption is allowed provided that the affected facility provides a registration of its Stage II equipment. Any future modifications would require a reregistration. This proposed use of a registration in lieu of formal permits is designed to eliminate a paperwork exercise of submittal, review and processing of permit applications. In addition, unnecessary time delays associated with a 90-day permit review period would be eliminated, thereby providing industry additional time to install the Stage II system and the Agency to focus its resources on the implementation of the Stage II program.

Section 218.586(h)(1) (and 219.586(h)(1)) details the specific items to be included when a Stage II system is to be registered. The registration information will allow the affected facilities to obtain their exemption from permit requirements and the Agency to establish an inventory of those facilities to be inspected. The Agency expects to adhere to USEPA guidance that specifies annual inspections for the facilities or the development of an inspection schedule approved by USEPA through the Agency's inspection program plan. (St. at 14-15.) The Agency does not intend to use a specific form for gathering the information required in subsection (h)(1).

CONCLUSION

Based on the record developed in this proceeding, the Board adopts the attached amendments. The Board further reiterates its finding that the proposed rules are technically feasible and economically reasonable.

ORDER

The Board directs the Clerk of the Board to submit the text of the following amendments to the Secretary of State for final notice pursuant to Section 6 of the APA.

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE B: AIR POLLUTION  
CHAPTER I: POLLUTION CONTROL BOARD

SUBCHAPTER c: EMISSIONS STANDARDS AND LIMITATIONS FOR  
STATIONARY SOURCES

PART 215  
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS

SUBPART A: GENERAL PROVISIONS

Section  
215.100 Introduction  
215.101 Clean-up and Disposal Operations  
215.102 Testing Methods  
215.103 Abbreviations and Conversion Factors  
215.104 Definitions  
215.105 Incorporation by Reference  
215.106 Afterburners  
215.107 Determination of Applicability  
215.108 Measurement of Vapor Pressures

SUBPART B: ORGANIC EMISSIONS FROM STORAGE AND LOADING OPERATIONS

Section  
215.121 Storage Containers  
215.122 Loading Operations  
215.123 Petroleum Liquid Storage Tanks  
215.124 External Floating Roofs  
215.125 Compliance Dates and Geographical Areas  
215.126 Compliance Plan  
215.127 Emissions Testing  
215.128 Measurement of Seal Gaps

SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

Section  
215.141 Separation Operations  
215.142 Pumps and Compressors  
215.143 Vapor Blowdown  
215.144 Safety Relief Valves

SUBPART E: SOLVENT CLEANING

Section

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215.181 Solvent Cleaning in General  
 215.182 Cold Cleaning  
 215.183 Open Top Vapor Degreasing  
 215.184 Conveyorized Degreasing  
 215.185 Compliance Plan

#### SUBPART F: COATING OPERATIONS

Section  
 215.202 Compliance Schedules  
 215.204 Emission Limitations for Manufacturing Plants  
 215.205 Alternative Emission Limitations  
 215.206 Exemptions from Emission Limitations  
 215.207 Compliance by Aggregation of Emission Sources  
 215.208 Testing Methods for Volatile Organic Material Content  
 215.209 Exemption from General Rule on Use of Organic Material  
 215.210 Alternative Compliance Schedule  
 215.211 Compliance Dates and Geographical Areas  
 215.212 Compliance Plan  
 215.213 Special Requirements for Compliance Plan  
 215.214 Roadmaster Emissions Limitations  
 215.215 DMI Emissions Limitations

#### SUBPART H: SPECIAL LIMITATIONS FOR SOURCES IN MAJOR URBANIZED AREAS WHICH ARE NONATTAINMENT FOR OZONE

Section  
 215.240 Applicability  
 215.241 External Floating Roofs  
 215.245 Flexographic and Rotogravure Printing  
 215.249 Compliance Dates

#### SUBPART I: ADJUSTED RACT EMISSIONS LIMITATIONS

Section  
 215.260 Applicability  
 215.261 Petition  
 215.263 Public Hearing  
 215.264 Board Action  
 215.267 Agency Petition

#### SUBPART K: USE OF ORGANIC MATERIAL

Section  
 215.301 Use of Organic Material  
 215.302 Alternative Standard  
 215.303 Fuel Combustion Emission Sources  
 215.304 Operations with Compliance Program  
 215.305 Viscose Exemption (Repealed)

#### SUBPART N: VEGETABLE OIL PROCESSING

Section  
 215.340 Hexane Extraction Soybean Crushing  
 215.342 Hexane Extraction Corn Oil Processing  
 215.344 Recordkeeping For Vegetable Oil Processes  
 215.345 Compliance Determination  
 215.346 Compliance Dates and Geographical Areas  
 215.347 Compliance Plan

#### SUBPART P: PRINTING AND PUBLISHING

Section  
 215.401 Flexographic and Rotogravure Printing  
 215.402 Exemptions  
 215.403 Applicability of Subpart K  
 215.404 Testing and Monitoring (Repealed)  
 215.405 Compliance Dates and Geographical Areas  
 215.406 Alternative Compliance Plan  
 215.407 Compliance Plan  
 215.408 Heatset Web Offset Lithographic Printing  
 215.409 Testing Methods for Volatile Organic Material Content  
 215.410 Emissions Testing

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

Section  
 215.420 Applicability  
 215.421 General Requirements  
 215.422 Inspection Program Plan for Leaks  
 215.423 Inspection Program for Leaks  
 215.424 Repairing Leaks  
 215.425 Recordkeeping for Leaks  
 215.426 Report for Leaks  
 215.427 Alternative Program for Leaks  
 215.428 Compliance Dates  
 215.429 Compliance Plan  
 215.430 General Requirements  
 215.431 Inspection Program Plan for Leaks  
 215.432 Inspection Program for Leaks  
 215.433 Repairing Leaks  
 215.434 Recordkeeping for Leaks  
 215.435 Report for Leaks  
 215.436 Alternative Program for Leaks  
 215.437 Open-Ended Valves  
 215.438 Standards for Control Devices  
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#### SUBPART R: PETROLEUM REFINING AND RELATED INDUSTRIES; ASPHALT MATERIALS

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 215.441 Petroleum Refinery Waste Gas Disposal

215.442 Vacuum Producing Systems  
 215.443 Wastewater (Oil/Water) Separator  
 215.444 Process Unit Turnarounds  
 215.445 Leaks: General Requirements  
 215.446 Monitoring Program Plan for Leaks  
 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  
 215.452 Compliance Schedule for Leaks  
 215.453 Compliance Dates and Geographical Areas

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

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 215.461 Manufacture of Pneumatic Rubber Tires  
 215.462 Green Tire Spraying Operations  
 215.463 Alternative Emission Reduction Systems  
 215.464 Emissions Testing  
 215.465 Compliance Dates and Geographical Areas  
 215.466 Compliance Plan  
 215.467 Testing Methods for Volatile Organic Material Content

#### SUBPART T: PHARMACEUTICAL MANUFACTURING

Section  
 215.480 Applicability of Subpart T  
 215.481 Control of Reactors, Distillation Units, Crystallizers, Centrifuges and Vacuum Dryers  
 215.482 Control of Air Dryers, Production Equipment Exhaust Systems and Filters  
 215.483 Material Storage and Transfer  
 215.484 In-Process Tanks  
 215.485 Leaks  
 215.486 Other Emission Sources  
 215.487 Testing  
 215.488 Monitors for Air Pollution Control Equipment  
 215.489 Recordkeeping (Renumbered)  
 215.490 Compliance Schedule (Renumbered)

#### SUBPART U: COKE MANUFACTURING AND BY-PRODUCT RECOVERY

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 215.500 Exceptions  
 215.510 Coke By-Product Recovery Plants  
 215.512 Coke By-Product Recovery Plant Leaks  
 215.513 Inspection Program  
 215.514 Recordkeeping Requirements  
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## SUBPART V: AIR OXIDATION PROCESSES

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215.521	Definitions
215.525	Emission Limitations for Air Oxidation Processes
215.526	Testing and Monitoring
215.527	Compliance Date

## SUBPART W: AGRICULTURE

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215.541	Pesticide Exception

## SUBPART X: CONSTRUCTION

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215.561	Architectural Coatings
215.562	Paving Operations
215.563	Cutback Asphalt

## SUBPART Y: GASOLINE DISTRIBUTION

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215.581	Bulk Gasoline Plants
215.582	Bulk Gasoline Terminals
215.583	Gasoline Dispensing Facilities <u>- Storage Tank Filling Operations</u>
215.584	Gasoline Delivery Vessels
215.585	Gasoline Volatility Standards
215.586	Emissions Testing

## SUBPART Z: DRY CLEANERS

Section	
215.601	Perchloroethylene Dry Cleaners
215.602	Exemptions
215.603	Leaks
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
215.608	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
215.613	Compliance Plan
215.614	Testing Method for Volatile Organic Material Content of Wastes
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## SUBPART AA: PAINT AND INK MANUFACTURING

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215.623	Permit Conditions
215.624	Open-top Mills, Tanks, Vats or Vessels
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## SUBPART BB: POLYSTYRENE PLANTS

Section	
215.875	Applicability of Subpart BB
215.877	Emissions Limitation at Polystyrene Plants
215.879	Compliance Date
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SUBPART PP: MISCELLANEOUS FABRICATED PRODUCT  
MANUFACTURING PROCESSES

Section	
215.920	Applicability
215.923	Permit Conditions
215.926	Control Requirements

## SUBPART QQ: MISCELLANEOUS FORMULATION MANUFACTURING PROCESSES

Section	
215.940	Applicability
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SUBPART RR: MISCELLANEOUS ORGANIC CHEMICAL  
MANUFACTURING PROCESSES

Section	
215.960	Applicability
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<u>215.Appendix A</u>	Rule Into Section Table
<u>215.Appendix B</u>	Section Into Rule Table
<u>215.Appendix C</u>	Past Compliance Dates
<u>215.Appendix D</u>	List of Chemicals Defining Synthetic Organic Chemical and Polymer Manufacturing
<u>215.Appendix E</u>	Reference Methods and Procedures
<u>215.Appendix F</u>	Coefficients for the Total Resource

## Effectiveness Index (TRE) Equation

AUTHORITY: Implementing Section 10 and authorized by Section 27 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1010 and 1027).

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 205: Organic Material Emission Standards and Limitations, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R77-3, 33 PCB 357, at 3 Ill. Reg. 18, p. 41, effective May 3, 1979; amended in R78-3 and R78-4, 35 PCB 75, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5 at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13601; Notice of Corrections at 7 Ill. Reg. 14575; amended in R82-14 at 8 Ill. Reg. 13254, effective July 12, 1984; amended in R83-36 at 9 Ill. Reg. 9114, effective May 30, 1985; amended in R82-14 at 9 Ill. Reg. 13960, effective August 28, 1985; amended in R85-28 at 11 Ill. Reg. 3127, effective February 3, 1987; amended in R82-14 at 11 Ill. Reg. 7296, effective April 3, 1987; amended in R85-21(A) at 11 Ill. Reg. 11770, effective June 29, 1987; recodified in R86-39 at 11 Ill. Reg. 13541; amended in R82-14 and R86-12 at 11 Ill. Reg. 16706, effective September 30, 1987; amended in R85-21(B) at 11 Ill. Reg. 19117, effective November 9, 1987; amended in R86-36, R86-39, R86-40 at 11 Ill. Reg. 20829, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 815, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7311, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7650, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10893, effective June 27, 1989; amended in R88-30(A) at 14 Ill. Reg. 3555, effective February 27, 1990; amended in R88-19 at 14 Ill. Reg. 7596, effective May 8, 1990; amended in R89-16(A) at 14 Ill. Reg. 9173, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 3309, effective February 15, 1991; amended in R88-14 at 15 Ill. Reg. 8018, effective May 14, 1991; amended in R91-7 at 15 Ill. Reg. 12217, effective August 19, 1991; amended in R91-10 at 15 Ill. Reg. 15595, effective October 11, 1991; amended in R89-7(B) at 15 Ill. Reg. 17687, effective November 26, 1991; amended in R91-9 at 16 Ill. Reg. 3132, effective February 18, 1992; amended in R91-30 at 16 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

## SUBPART A: GENERAL PROVISIONS

## Section 215.123 Petroleum Liquid Storage Tanks

- a) The requirements of subsection (b) below shall not apply to any stationary storage tank:
  - 1) Equipped before January 1, 1979 with one of the vapor loss control devices specified in Section 215.121(b) of this Part, except Section 215.121(b)(1) of this Part;

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- 2) With a capacity of less than 151.42 cubic meters;
  - 3) With a capacity of less than 1,600 cubic meters (422,400 gallons) and used to store produced crude oil and condensate prior to custody transfer;
  - 4) With a capacity of less than 1,430 cubicmeters (378,000 gallons) and used to store produced oil or condensate in crude oil gathering;
  - 5) Subject to new source performance standards for storage vessels of petroleum liquid, 40 CFR 60, as ~~regulations promulgated by the U.S. Environmental Protection Agency under Section 111 of the Clean Air Act (42 USC 7411), as amended~~incorporated by reference in Section 215.105 of this Part. THE PROVISIONS OF SECTION 111 OF THE CLEAN AIR ACT...RELATING TO STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES...ARE APPLICABLE IN THIS STATE AND ARE ENFORCEABLE UNDER [THE ENVIRONMENTAL PROTECTION ACT]. (Ill. Rev. Stat., ch. 111½, par. 1009.1(b)).
  - 6) In which volatile petroleum liquid is not stored; or
  - 7) Which is a pressure tank as described in Section 215.121(a) of this Part.
- b) Subject to subsection (a) above no owner or operator of a stationary storage tank shall cause or allow the storage of any volatile petroleum liquid in the tank unless:
- 1) The tank is equipped with one of the vapor loss control devices specified in Section 215.121(b) of this Part;
  - 2) There are no visible holes, tears or other defects in the seal or any seal fabric or material of any floating roof;
  - 3) All openings of any floating roof deck, except stub drains, are equipped with covers, lids or seals such that:
    - A) The cover, lid or seal is in the closed position at all times except when petroleum liquid is transferred to or from the tank;

- B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports; and
  - C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting;
- 4) Routine inspections of floating roof seals are conducted through roof hatches once every six months;
  - 5) A complete inspection of the cover and seal of any floating roof tank is made whenever the tank is emptied for reasons other than the transfer of petroleum liquid during the normal operation of the tank, or whenever repairs are made as a result of any semiannual inspection or incidence of roof damage or defect; and
  - 6) A record of the results of each inspection conducted under subsection (b)(4) or (b)(5) above is maintained.
- c) Owners and operators of petroleum liquid storage tanks were required to have compliance schedules as summarized in Appendix C of this Part.

(Source: Amended at 16 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

#### SUBPART Y: GASOLINE DISTRIBUTION

##### Section 215.583 Gasoline Dispensing Facilities - Storage Tank Filling Operations

- a) Subject to subsection (b) below, no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing facility unless:
  - 1) The tank is equipped with a submerged loading pipe; and
  - 2) The vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
    - A) A vapor collection system that meets the requirements of subsection (d)(4) below; or

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- B) A refrigeration-condensation system or any other system approved by the Agency that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled; and.
  - C) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 215.584(b) or (d) of this Part.
- b) The requirements of subsection (a)(2) above shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing facility if:
- 1) The tank is equipped with a floating roof or other system of equal or better emission control as approved by the Agency;
  - 2) The tank has a capacity of less than 2000 gallons and is in place and operating before January 1, 1979;
  - 3) The tank has a capacity of less than 575 gallons; or
  - 4) The tank is not located in any of the following counties: Boone, Peoria, Rock Island, Tazewell, or Winnebago.
- c) Subject to subsection (b) above, each owner of a gasoline dispensing facility shall:
- 1) Install all control systems and make all process modifications required by subsection (a) above;
  - 2) Provide instructions to the operator of the gasoline dispensing facility describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system; and
  - 3) Repair, replace or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (b) above, each operator of a gasoline dispensing facility shall:
- 1) Maintain and operate each vapor control system in accordance with the owner's instructions;
  - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement

or repair of a major component of a vapor control system;

- 3) Maintain gauges, meters or other specified testing devices in proper working order;
  - 4) Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
    - A) A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B, and
    - B) Avoidable leaks of liquid during the filling of storage tanks; and
  - 5) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) above.
- e) Gasoline dispensing facilities were required to take certain actions to achieve compliance which are summarized in Appendix C of this Part.

(Source: Amended at 16 Ill. Reg. \_\_\_\_\_, effective  
\_\_\_\_\_)

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

PART 218  
ORGANIC MATERIAL EMISSION STANDARDS AND LIMITATIONS  
FOR THE CHICAGO AREA

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AUTHORITY: Implementing Section 10 and authorized by Section 28.2 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1010 and 1028.2)

SOURCE: Adopted in R91-7 at 15 Ill. Reg. 12231, effective August 16, 1991; amended in R91-30 at 16 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

#### SUBPART Y: GASOLINE DISTRIBUTION

##### Section 218.583      Gasoline Dispensing Facilities - Storage Tank Filling Operations

- a) Subject to subsection (b) below, no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing facility unless:
  - 1) The tank is equipped with a submerged loading pipe; and
  - 2) The vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
    - A) A vapor collection system that meets the requirements of subsection (d)(4) below; or
    - B) A refrigeration-condensation system or any other system approved by the Agency and approved by the USEPA as a SIP revision, that recovers at least 90 percent by weight of all vaporized organic material from the equipment being controlled; and
    - C) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 218.584(b) or (d) of this Part.
- b) The requirements of subsection (a)(2) above shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing facility if:

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- 1) The tank is equipped with a floating roof, or other system of equal or better emission control approved by the Agency and approved by the USEPA as a SIP revision;
  - 2) The tank has a capacity of less than 2000 gallons and was in place and operating before January 1, 1979; or
  - 3) The tank has a capacity of less than 575 gallons.
- c) Subject to subsection (b) above, each owner of a gasoline dispensing facility shall:
- 1) Install all control systems and make all process modifications required by subsection (a) above;
  - 2) Provide instructions to the operator of the gasoline dispensing facility describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system; and
  - 3) Repair, replace or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (b) above, each operator of a gasoline dispensing facility shall:
- 1) Maintain and operate each vapor control system in accordance with the owner's instructions;
  - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
  - 3) Maintain gauges, meters or other specified testing devices in proper working order;
  - 4) Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
    - A) A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B, and
    - B) Avoidable leaks of liquid during the filling of storage tanks; and

- 5) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) above.
- e) Gasoline dispensing facilities were required to take certain actions to achieve compliance which are summarized in 35 Ill. Adm. Code 215~~7~~.Appendix C.

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

Section 218.586                      Gasoline Dispensing Facilities -- Motor Vehicle Fueling Operations

- a) For the purposes of this Section, the following definitions apply.
  - 1) Average Monthly Volume: The amount of motor vehicle fuel dispensed per month from a gasoline dispensing facility based upon a monthly average for the 2-year period of November, 1990 through October, 1992 or, if not available, the monthly average for the most recent twelve calendar months. Monthly averages are to include only those months when the facility was operating.
  - 2) Certified: Any vapor collection and control system which has been tested and approved by CARB as having a vapor recovery and removal efficiency of at least 95% (by weight) shall constitute a certified vapor collection and control system. CARB testing and approval is pursuant to the CARB manual, hereby incorporated by reference (California Air Resources Board, Compliance Division, Compliance Assistance Program: Facilities Phase I & II (October 1988, rev. March 1991 CARB Manual)). This incorporation includes no later additions or amendments.
  - 3) Completion of installation: The successful passing of one or more of the following tests applicable to the installed vapor collection and control system: Dynamic Backpressure Test, Pressure Decay/Leak Test, and Liquid Blockage Test (United States Environmental Protection Agency, Washington D.C., EPA-450/3-91-002b). These tests are hereby incorporated by reference. This incorporation includes no later additions or amendments.

- 4) Constructed: Fabricated, erected or installed; refers to any facility, emission source or air pollution control equipment.
- 5) CARB: California Air Resources Board, P.O. Box 2815, Sacramento, CA 95812.
- 6) Employee: Any person who performs work for an employer.
- 7) Facility: Any building, structure, installation, operation or combination thereof located on contiguous properties and under common ownership that provides for the dispensing of motor vehicle fuel.
- 8) Gasoline Dispensing Facility: Any facility where motor vehicle fuel is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of 2176 liters (575 gallons) or more.
- 9) Modification: Any change, removal or addition, other than an identical replacement, of any component contained within the vapor collection and control system.
- 10) Motor Vehicle: Any self-propelled vehicle powered by an internal combustion engine including, but not limited to, automobiles and trucks. Specifically excluded from this definition are watercraft and aircraft.
- 11) Motor Vehicle Fuel: Any petroleum distillate having a Reid vapor pressure of more than 27.6 kilopascals (kPa) (four pounds per square inch) and which is used to power motor vehicles.
- 12) Owner or Operator: Any person who owns, leases, operates, manages, supervises or controls (directly or indirectly) a gasoline dispensing facility.
- 13) Reid Vapor Pressure: For gasoline, it shall be measured in accordance with either the method ASTM D323 or a modification of ASTM D323 known as the "dry method" as set forth in 40 CFR 80, Appendix E, incorporated by references in 35 Ill. Adm. Code 215.105.
- 14) Vapor Collection and Control System: Any system certified by CARB which limits the discharge to

the atmosphere of motor vehicle fuel vapors displaced during the dispensing of motor vehicle fuel into motor vehicle fuel tanks.

- b) The provisions of subsection (c) below shall apply to any gasoline dispensing facility which dispenses an average monthly volume of more than 10,000 gallons of motor vehicle fuel per month. Compliance shall be demonstrated in accordance with the schedule provided in subsection (d) below.
- c) No owner or operator of a gasoline dispensing facility subject to the requirements of subsection (b) above shall cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and utilizes a vapor collection and control system which is properly installed and operated as provided below:
- 1) Any vapor collection and control system installed, used or maintained has been CARB certified.
  - 2) Any vapor collection and control system utilized is maintained in accordance with the manufacturer's specifications and the certification.
  - 3) No elements or components of a vapor collection and control system are modified, removed, replaced or otherwise rendered inoperative in a manner which prevents the system from performing in accordance with its certification and design specifications.
  - 4) A vapor collection and control system has no defective, malfunctioning or missing components.
  - 5) Operators and employees of the gasoline dispensing facility are trained and instructed in the proper operation and maintenance of a vapor collection and control system.
  - 6) Instructions are posted in a conspicuous and visible place within the motor fuel dispensing area and describe the proper method of dispensing motor vehicle fuel with the use of the vapor collection and control system.
- d) In conjunction with the compliance provisions of Section 218.105 of this Part, facilities subject to the

requirements of subsection (c) above shall demonstrate compliance according to the following:

- 1) Facilities that commenced construction after November 1, 1990, must comply by May 1, 1993.
  - 2) Facilities that commenced construction before November 1, 1990, and dispense an average monthly volume of more than 100,000 gallons of motor fuel per month must comply by November 1, 1993.
  - 3) Facilities that commenced construction before November 1, 1990, and dispense an average monthly volume of less than 100,000 gallons of motor fuel per month must comply by November 1, 1994.
  - 4) New facilities constructed after the adoption of this Section shall comply with the requirements of subsection (c) above upon startup of the facility.
  - 5) Existing facilities previously exempted from but which become subject to the requirements of subsection (c) above after May 1, 1993 shall comply with the requirements of subsection (c) above within six calendar months of the date from which the facility becomes subject.
- e) Any gasoline dispensing facility that becomes subject to the provisions of subsection (c) above at any time shall remain subject to the provisions of subsection (c) above at all times.
- f) Upon request by the Agency, the owner or operator of a gasoline dispensing facility which claims to be exempt from the requirements of this Section shall submit records to the Agency within 30 calendar days from the date of the request which demonstrate that the gasoline dispensing facility is in fact exempt.
- g) Recordkeeping and reporting
- 1) Any gasoline dispensing facility subject to subsection (c) above shall retain at the facility copies of the registration information required at subsection (h) below.
  - 2) Records and reports required pursuant to this subsection shall be made available to the Agency upon request. Records and reports which shall be maintained by the owner or operator of the gasoline dispensing facility shall clearly demonstrate:

- A) That a certified vapor collection and control system has been installed and tested to verify its performance according to its specifications.
  - B) That proper maintenance has been conducted in accordance with the manufacturer's specifications and requirements.
  - C) The time period and duration of all malfunctions of the vapor collection and control system.
  - D) The motor vehicle fuel throughput of the facility for each calendar month of the previous year.
  - E) That operators and employees are trained and instructed in the proper operation and maintenance of the vapor collection and control system and informed as to the potential penalties associated with the violation of any provision of this Section.
- h) Any gasoline dispensing facility subject to subsection (c) above is exempt from the permit requirements specified under 35 Ill. Adm. Code 201.142, 201.143 and 201.144 for its vapor collection and control systems, provided that:
- 1) Upon the installation of a vapor collection and control system, the owner or operator of the gasoline dispensing facility submits to the Agency a registration which provides at minimum the facility name and address, signature of the owner or operator, the CARB Executive Order Number for the vapor collection and control system to be utilized, the number of nozzles (excluding diesel or kerosene) used for motor vehicle refueling, the monthly average volume of motor vehicle fuel dispensed, the location (including contact person's name, address, and telephone number) of records and reports required by this Section, and the date of completion of installation of the vapor collection and control system.
  - 2) The registration is submitted to the Agency within 30 days of completion of such installation.
  - 3) A copy of the registration information is maintained at the gasoline dispensing facility.

- 4) Upon the modification of an existing vapor collection and control system, the owner or operator of the gasoline dispensing facility submits to the Agency a registration that details the changes to the information provided in the previous registration of the vapor collection and control system and which includes the signature of the owner or operator. The registration must be submitted to the Agency within 30 days of completion of such modification.

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

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

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

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## SUBPART C: ORGANIC EMISSIONS FROM MISCELLANEOUS EQUIPMENT

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## SUBPART E: SOLVENT CLEANING

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## SUBPART F: COATING OPERATIONS

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AUTHORITY: Implementing Section 10 and authorized by Section 28.2 of the Environmental Protection Act (Ill. Rev. Stat. 1991, ch. 111 1/2, pars. 1010 and 1028.2).

SOURCE: Adopted in R91-8 at 15 Ill. Reg. 12491, effective August 16, 1991; amended in R91-30 at 16 Ill. Reg. \_\_\_\_\_.

SUBPART Y: GASOLINE DISTRIBUTION

Section 219.583 Gasoline Dispensing Facilities - Storage Tank Filling Operations

- a) Subject to subsection (b) below, no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing facility unless:
  - 1) The tank is equipped with a submerged loading pipe; and
  - 2) The vapors displaced from the storage tank during filling are processed by a vapor control system that includes one or more of the following:
    - A) A vapor collection system that meets the requirements of subsection (d)(4) below; or
    - B) A refrigeration-condensation system or any other system approved by the Agency and approved by the USEPA as a SIP revision, that recovers at least 90 percent by weight of all

vaporized organic material from the equipment being controlled; and

- C) The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 219.584(b) or (d) of this Part.
- b) The requirements of subsection (a)(2) above shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing facility if:
  - 1) The tank is equipped with a floating roof, or other system of equal or better emission control as approved by the Agency and approved by the USEPA as a SIP revision;
  - 2) The tank has a capacity of less than 2000 gallons and was in place and operating before January 1, 1979; or
  - 3) The tank has a capacity of less than 575 gallons.
- c) Subject to subsection (b) above, each owner of a gasoline dispensing facility shall:
  - 1) Install all control systems and make all process modifications required by subsection (a) above;
  - 2) Provide instructions to the operator of the gasoline dispensing facility describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system; and
  - 3) Repair, replace or modify any worn out or malfunctioning component or element of design.
- d) Subject to subsection (b) above, each operator of a gasoline dispensing facility shall:
  - 1) Maintain and operate each vapor control system in accordance with the owner's instructions;
  - 2) Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
  - 3) Maintain gauges, meters or other specified testing devices in proper working order;

- 4) Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
  - A) A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B, and
  - B) Avoidable leaks of liquid during the filling of storage tanks; and
- 5) Within 15 business days after discovery of the leak by the owner, operator, or the Agency, repair and retest a vapor collection system which exceeds the limits of subsection (d)(4)(A) above.
- e) Gasoline dispensing facilities were required to take certain actions to achieve compliance which are summarized in 35 Ill. Adm. Code 215~~7~~, Appendix C.

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

Section 219.586      Gasoline Dispensing Facilities - Motor Vehicle Fueling Operations

- a) For the purposes of this Section, the following definitions apply.
  - 1) Average Monthly Volume: The amount of motor vehicle fuel dispensed per month from a gasoline dispensing facility based upon a monthly average for the 2-year period of November, 1990 through October, 1992 or, if not available, the monthly average for the most recent twelve calendar months. Monthly averages are to include only those months when the facility was operating.
  - 2) Certified: Any vapor collection and control system which has been tested and approved by CARB as having a vapor recovery and removal efficiency of at least 95% (by weight) shall constitute a certified vapor collection and control system. CARB testing and approval is pursuant to the CARB manual, hereby incorporated by reference (California Air Resources Board, Compliance Division, Compliance Assistance Program: Facilities Phase I & II (October 1988, rev. March 1991 CARB Manual)). This incorporation includes no later additions or amendments.

- 3) Completion of installation: The successful passing of one or more of the following tests applicable to the installed vapor collection and control system: Dynamic Backpressure Test, Pressure Decay/Leak Test, and Liquid Blockage Test (United States Environmental Protection Agency, Washington D.C., EPA-450/3-91-002b). These tests are hereby incorporated by reference. This incorporation includes no later additions or amendments.
- 4) Constructed: Fabricated, erected or installed; refers to any facility, emission source or air pollution control equipment.
- 5) CARB: California Air Resources Board, P.O. Box 2815, Sacramento, CA 95812.
- 6) Employee: Any person who performs work for an employer.
- 7) Facility: Any building, structure, installation, operation or combination thereof located on contiguous properties and under common ownership that provides for the dispensing of motor vehicle fuel.
- 8) Gasoline Dispensing Facility: Any facility where motor vehicle fuel is dispensed into motor vehicle fuel tanks or portable containers from a storage tank with a capacity of 2176 liters (575 gallons) or more.
- 9) Modification: Any change, removal or addition, other than an identical replacement, of any component contained within the vapor collection and control system.
- 10) Motor Vehicle: Any self-propelled vehicle powered by an internal combustion engine including, but not limited to, automobiles and trucks. Specifically excluded from this definition are watercraft and aircraft.
- 11) Motor Vehicle Fuel: Any petroleum distillate having a Reid vapor pressure of more than 27.6 kilopascals (kPa) (four pounds per square inch) and which is used to power motor vehicles.
- 12) Owner or Operator: Any person who owns, leases, operates, manages, supervises or controls

(directly or indirectly) a gasoline dispensing facility.

- 13) Reid Vapor Pressure: For gasoline, it shall be measured in accordance with either the method ASTM D323 or a modification of ASTM D323 known as the "dry method" as set forth in 40 CFR 80, Appendix E, incorporated by references in 35 Ill. Adm. Code 215.105.
  - 14) Vapor Collection and Control System: Any system certified by CARB which limits the discharge to the atmosphere of motor vehicle fuel vapors displaced during the dispensing of motor vehicle fuel into motor vehicle fuel tanks.
- b) The provisions of subsection (c) below shall apply to any gasoline dispensing facility which dispenses an average monthly volume of more than 10,000 gallons of motor vehicle fuel per month. Compliance shall be demonstrated in accordance with the schedule provided in subsection (d) below.
- c) No owner or operator of a gasoline dispensing facility subject to the requirements of subsection (b) above shall cause or allow the dispensing of motor vehicle fuel at any time from a motor fuel dispenser unless the dispenser is equipped with and utilizes a vapor collection and control system which is properly installed and operated as provided below:
- 1) Any vapor collection and control system installed, used or maintained has been CARB certified.
  - 2) Any vapor collection and control system utilized is maintained in accordance with the manufacturer's specifications and the certification.
  - 3) No elements or components of a vapor collection and control system are modified, removed, replaced or otherwise rendered inoperative in a manner which prevents the system from performing in accordance with its certification and design specifications.
  - 4) A vapor collection and control system has no defective, malfunctioning or missing components.
  - 5) Operators and employees of the gasoline dispensing facility are trained and instructed in the proper



operation and maintenance of a vapor collection and control system.

- 6) Instructions are posted in a conspicuous and visible place within the motor fuel dispensing area and describe the proper method of dispensing motor vehicle fuel with the use of the vapor collection and control system.
- d) In conjunction with the compliance provisions of Section 219.105 of this Part, facilities subject to the requirements of subsection (c) above shall demonstrate compliance according to the following:
  - 1) Facilities that commenced construction after November 1, 1990, must comply by May 1, 1993.
  - 2) Facilities that commenced construction before November 1, 1990, and dispense an average monthly volume of more than 100,000 gallons of motor fuel per month must comply by November 1, 1993.
  - 3) Facilities that commenced construction before November 1, 1990, and dispense an average monthly volume of less than 100,000 gallons of motor fuel per month must comply by November 1, 1994.
  - 4) New facilities constructed after the adoption of this Section shall comply with the requirements of subsection (c) above upon startup of the facility.
  - 5) Existing facilities previously exempted from but which become subject to the requirements of subsection (c) above after May 1, 1993 shall comply with the requirements of subsection (c) above within six calendar months of the date from which the facility becomes subject.
- e) Any gasoline dispensing facility that becomes subject to the provisions of subsection (c) above at any time shall remain subject to the provisions of subsection (c) above at all times.
- f) Upon request by the Agency, the owner or operator of a gasoline dispensing facility which claims to be exempt from the requirements of this Section shall submit records to the Agency within 30 calendar days from the date of the request which demonstrate that the gasoline dispensing facility is in fact exempt.
- g) Recordkeeping and reporting

- 1) Any gasoline dispensing facility subject to subsection (c) above shall retain at the facility copies of the registration information required at subsection (h) below.
- 2) Records and reports required pursuant to this subsection shall be made available to the Agency upon request. Records and reports which shall be maintained by the owner or operator of the gasoline dispensing facility shall clearly demonstrate:
  - A) That a certified vapor collection and control system has been installed and tested to verify its performance according to its specifications.
  - B) That proper maintenance has been conducted in accordance with the manufacturer's specifications and requirements.
  - C) The time period and duration of all malfunctions of the vapor collection and control system.
  - D) The motor vehicle fuel throughput of the facility for each calendar month of the previous year.
  - E) That operators and employees are trained and instructed in the proper operation and maintenance of the vapor collection and control system and informed as to the potential penalties associated with the violation of any provision of this Section.
- h) Any gasoline dispensing facility subject to subsection (c) above is exempt from the permit requirements specified under 35 Ill. Adm. Code 201.142, 201.143 and 201.144 for its vapor collection and control systems, provided that:
  - 1) Upon the installation of a vapor collection and control system, the owner or operator of the gasoline dispensing facility submits to the Agency a registration which provides at minimum the facility name and address, signature of the owner or operator, the CARB Executive Order Number for the vapor collection and control system to be utilized, the number of nozzles (excluding diesel or kerosene) used for motor vehicle refueling, the monthly average volume of motor vehicle fuel

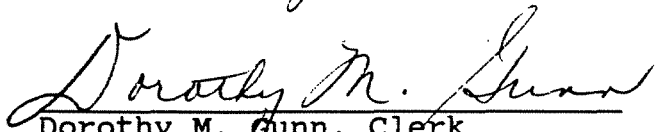
dispensed, the location (including contact person's name, address, and telephone number) of records and reports required by this Section, and the date of completion of installation of the vapor collection and control system.

- 2) The registration is submitted to the Agency within 30 days of completion of such installation.
- 3) A copy of the registration information is maintained at the gasoline dispensing facility.
- 4) Upon the modification of an existing vapor collection and control system, the owner or operator of the gasoline dispensing facility submits to the Agency a registration that details the changes to the information provided in the previous registration of the vapor collection and control system and which includes the signature of the owner or operator. The registration must be submitted to the Agency within 30 days of completion of such modification.

(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 15<sup>th</sup> day of August, 1992, by a vote of 7-0.

  
Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board

0135-0461