

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENT

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STATE OF ILLINOIS
Pollution Control Board

- 1) Heading of the Part: Permits and General Provisions
- 2) Code Citation: 35 Ill. Adm. Code Part 201
- 3) Section Number: 201.146 Proposed Action:
Amend
- 4) Statutory Authority: Implementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28.5, 39, and 39.5]
- 5) A Complete Description of the Subjects and Issues Involved: For a more detailed discussion of these amendments, see the Board's April 19, 2007 opinion and order in docket R07-18: In the Matter of: Nitrous Oxide (NO_x) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146, 211 and 217. The Illinois Environmental Protection Agency (IEPA) filed this rulemaking proposal April 6, 2007 under the fast-track procedures of Section 28.5 of the Environmental Protection Act, 415 ILCS 5/28.5. The Board received an objection to the use of the fast-track procedures on April 16, 2007 from ANR Pipeline, Natural Gas Pipeline Company, Trunkline Gas Company, and Panhandle Eastern Pipeline Company, and on April 17, 2007 the Illinois Environmental Regulatory Group. Until the time for response to the objections has elapsed and the Board can properly rule on the pending objections, the Board must proceed under the Section 28.5 timetable.

IEPA's statement of reasons explains that these rules are proposed to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.* Specifically, IEPA intends the rules to satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Phase II of the United States Environmental Protection Agency's (USEPA's) nitrogen oxides (NO_x) State Implementation Plan (SIP) call. The NO_x SIP call required affected states, including Illinois, to regulate NO_x emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA). 69 Fed. Reg. 21604 (April 21, 2004). This statewide proposal will also regulate NO_x emissions from turbines and smaller engines, as part of the State's obligation to meet NO_x reasonably available control technology (RACT) requirements for the 8-hour ozone and fine particulate matter (PM_{2.5}) National Ambient Air Quality Standards (NAAQS), reasonable further progress (RFP), and attainment demonstration requirements.

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the IEPA's *Technical Support Document for Controlling NO_x Emissions from Stationary Reciprocating Internal*

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Combustion Engines and Turbines(TSD) that relied on several published studies and reports. Copies of the reports that the IEPA relied upon are available for review at the Board's Chicago office, and are listed below.

Technical Support Document for Final Clean Air Interstate Rule, Air Quality Modeling, U.S. EPA, Research Triangle Park, NC, March 2005.

Alternative Control Techniques Document – NO_x Emissions from Stationary Reciprocating Internal Combustion Engines, EPA-453/R-93-032, July 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Alternative Control Techniques Document – NO_x Emissions from Stationary Gas Turbines, EPA-453/R-91-007, January 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Controlling Nitrogen Oxides Under the Clean Air Act: A Menu of Options, July 1994, State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials.

Regulatory Impacts Analysis for the NO_x SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, EPA-452/R-98-003, September 1998, U.S. EPA, Office of Air and Radiation, Washington, DC 20460.

Stationary Reciprocating Internal Combustion Engines Technical Support Document for NO_x SIP Call, October 2003, Doug/Grano/Bill Neuffer, EPA OAR, OAQPS, OPSG.

Assessment of Regional NO_x Emissions in the Upper Midwest, Lake Michigan Directors' Consortium, February 15, 2007.

- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This proposed rulemaking does not create or

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enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b) (2002)].

- 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 45 days after the date of publication in the *Illinois Register*. Comments should reference Docket R07-18 and be addressed to:

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

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

The Board has scheduled hearings for the purposes and on the timetable established by Section 28.5. Each hearing will continue from day-to-day until business is completed:

First hearing: Monday, May 27, 2007
9:00 a.m.
IEPA Office Building,
Training Room 12,14 West
1021 N. Grand Ave. East, North Entrance
Springfield IL

Second hearing: Tuesday, June 19, 2007
(if necessary) 10:00 a.m.
Auditorium, Room C-500
Michael A. Bilandic Building
160 N. LaSalle St., Fifth Floor
Chicago IL

Third hearing: Monday, July 2, 2007
(if necessary) 1:00 p.m.
IEPA Office Building,
Training Room 12,14 West
1021 N. Grand Ave. East, North Entrance
Springfield IL

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An April 20, 2007 hearing officer order contains additional details concerning participation in the rulemaking. For more information contact hearing officer Tim Fox at 312/814-6085 or email at foxt@ipcb.state.il.us.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: None
 - B) Reporting, bookkeeping or other procedures required for compliance: The proposed rulemaking requires the owner or operator of an affected source to perform required emissions monitoring, complete required tests, and record, report as required. The owner or operator of an affected source must also maintain emissions monitoring and testing information.
 - C) Types of Professional skills necessary for compliance: No professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2007

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 a: PERMITS AND GENERAL PROVISIONS

PART 201
PERMITS AND GENERAL PROVISIONS

SUBPART A: DEFINITIONS

Section	
201.101	Other Definitions
201.102	Definitions
201.103	Abbreviations and Units
201.104	Incorporations by Reference

SUBPART B: GENERAL PROVISIONS

Section	
201.121	Existence of Permit No Defense
201.122	Proof of Emissions
201.123	Burden of Persuasion Regarding Exceptions
201.124	Annual Report
201.125	Severability
201.126	Repealer

SUBPART C: PROHIBITIONS

Section	
201.141	Prohibition of Air Pollution
201.142	Construction Permit Required
201.143	Operating Permits for New Sources
201.144	Operating Permits for Existing Sources
201.146	Exemptions from State Permit Requirements
201.147	Former Permits
201.148	Operation Without Compliance Program and Project Completion Schedule
201.149	Operation During Malfunction, Breakdown or Startups
201.150	Circumvention
201.151	Design of Effluent Exhaust Systems

SUBPART D: PERMIT APPLICATIONS AND REVIEW PROCESS

Section	
201.152	Contents of Application for Construction Permit
201.153	Incomplete Applications (Repealed)
201.154	Signatures (Repealed)
201.155	Standards for Issuance (Repealed)
201.156	Conditions
201.157	Contents of Application for Operating Permit
201.158	Incomplete Applications
201.159	Signatures
201.160	Standards for Issuance
201.161	Conditions
201.162	Duration
201.163	Joint Construction and Operating Permits
201.164	Design Criteria
201.165	Hearings

201.166 Revocation
201.167 Revisions to Permits
201.168 Appeals from Conditions
201.169 Special Provisions for Certain Operating Permits
201.170 Portable Emission Units

SUBPART E: SPECIAL PROVISIONS FOR OPERATING
PERMITS FOR CERTAIN SMALLER SOURCES

Section

201.180 Applicability (Repealed)
201.181 Expiration and Renewal (Repealed)
201.187 Requirement for a Revised Permit (Repealed)

SUBPART F: CAAPP PERMITS

Section

201.207 Applicability
201.208 Supplemental Information
201.209 Emissions of Hazardous Air Pollutants
201.210 Categories of Insignificant Activities or Emission Levels
201.211 Application for Classification as an Insignificant Activity
201.212 Revisions to Lists of Insignificant Activities or Emission Levels

SUBPART G: EXPERIMENTAL PERMITS (Reserved)

SUBPART H: COMPLIANCE PROGRAMS AND
PROJECT COMPLETION SCHEDULES

Section

201.241 Contents of Compliance Program
201.242 Contents of Project Completion Schedule
201.243 Standards for Approval
201.244 Revisions
201.245 Effects of Approval
201.246 Records and Reports
201.247 Submission and Approval Dates

SUBPART I: MALFUNCTIONS, BREAKDOWNS OR STARTUPS

Section

201.261 Contents of Request for Permission to Operate During a Malfunction,
Breakdown or Startup
201.262 Standards for Granting Permission to Operate During a Malfunction,
Breakdown or Startup
201.263 Records and Reports
201.264 Continued Operation or Startup Prior to Granting of Operating Permit
201.265 Effect of Granting of Permission to Operate During a Malfunction,
Breakdown or Startup

SUBPART J: MONITORING AND TESTING

Section

201.281 Permit Monitoring Equipment Requirements
201.282 Testing
201.283 Records and Reports

SUBPART K: RECORDS AND REPORTS

Section
201.301 Records
201.302 Reports

SUBPART L: CONTINUOUS MONITORING

Section
201.401 Continuous Monitoring Requirements
201.402 Alternative Monitoring
201.403 Exempt Sources
201.404 Monitoring System Malfunction
201.405 Excess Emission Reporting
201.406 Data Reduction
201.407 Retention of Information
201.408 Compliance Schedules

201.APPENDIX A Rule into Section Table
201.APPENDIX B Section into Rule Table
201.APPENDIX C Past Compliance Dates

AUTHORITY: Implementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/10, 27, 28.5, 39, and 39.5].

SOURCE: Adopted as Chapter 2: Air Pollution, Part I: General Provisions, in R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R78-3 and 4, 35 PCB 75 and 243, 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. 13579; amended in R82-1 (Docket A) at 10 Ill. Reg. 12628, effective July 7, 1986; amended in R87-38 at 13 Ill. Reg. 2066, effective February 3, 1989; amended in R89-7(A) at 13 Ill. Reg. 19444, effective December 5, 1989; amended in R89-7(B) at 15 Ill. Reg. 17710, effective November 26, 1991; amended in R93-11 at 17 Ill. Reg. 21483, effective December 7, 1993; amended in R94-12 at 18 Ill. Reg. 15002, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15760, effective October 17, 1994; amended in R96-17 at 21 Ill. Reg. 7878, effective June 17, 1997; amended in R98-13 at 22 Ill. Reg. 11451, effective June 23, 1998; amended in R98-28 at 22 Ill. Reg. 11823, effective July 31, 1998; amended in R02-10 at 27 Ill. Reg. 5820, effective March 21, 2003; amended in R05-19 and R05-20 at 30 Ill. Reg. 4901, effective March 3, 2006; amended in R07-18 at 31 Ill. Reg. _____, effective _____.

SUBPART C: PROHIBITIONS

Section 201.146 Exemptions from State Permit Requirements

Construction or operating permits, pursuant to Sections 201.142, 201.143 and 201.144 of this Part, are not required for the classes of equipment and activities listed below in this Section. The permitting exemptions in this Section do not relieve the owner or operator of any source from any obligation to comply with any other applicable requirements, including the obligation to obtain a permit pursuant to Sections 9.1(d) and 39.5 of the Act, Sections 165, 173 and 502 of the Clean Air Act or any other applicable permit or registration requirements.

- a) Air contaminant detectors or recorders, combustion controllers or combustion shutoffs;
- b) Air conditioning or ventilating equipment not designed to remove air contaminants generated by or released from associated equipment;
- c) Each fuel burning emission unit for indirect systems and for heating and reheating furnace systems used exclusively for residential, or commercial establishments using gas and/or fuel oil exclusively with a design heat input capacity of less than 14.6 MW (50 mmbtu/hr), except that a permit shall be required for any such emission unit with a design heat input capacity of at least 10 mmbtu/hr that was constructed, reconstructed or modified after June 9, 1989 and that is subject to 40 CFR 60, Subpart D;
- d) Each fuel burning emission unit other than those listed in subsection (c) of this Section for direct systems used for comfort heating purposes and indirect heating systems with a design heat input capacity of less than 2930 kW (10 mmbtu/hr);
- e) Internal combustion engines or boilers (including the fuel system) of motor vehicles, locomotives, air craft, watercraft, lifttrucks and other vehicles powered by nonroad engines;
- f) Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including associated laboratory fume hoods, vacuum producing devices and control devices installed primarily to address potential accidental releases;
- g) Coating operations located at a source using not in excess of 18,925 l (5,000 gal) of coating (including thinner) per year;
- h) Any emission unit acquired exclusively for domestic use, except that a permit shall be required for any incinerator and for any fuel combustion emission unit using solid fuel with a design heat input capacity of 14.6 MW (50 mmbtu/hr) or more;
- i) Any stationary turbine or internal combustion engine with a rated power output of less than 1118 kW (1500 bhp ~~horsepower~~), except that a permit shall be required for the following:
 - 1) ~~Any~~Any stationary gas turbine ~~engine~~ with a rated heat input at peak load of 10.7 gigajoules/hr (10 mmbtu/hr) or more that is constructed, reconstructed or modified after October 3, 1977 and that is subject to requirements of 40 CFR 60, Subpart GG; or
 - 2) Any internal combustion engine with a rating at equal to or greater than 500 bhp output that is subject to the control requirements of 35 Ill. Adm. Code ~~Part 217-217~~, Subpart Q-;
- j) Rest room facilities and associated cleanup operations, and stacks or vents used to prevent the escape of sewer gases through plumbing traps;
- k) Safety devices designed to protect life and limb, provided that a permit is not otherwise required for the emission unit with which the safety device is associated;

l) Storage tanks for liquids for retail dispensing except for storage tanks that are subject to the requirements of 35 Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or 219.583(a)(2);

m) Printing operations with aggregate organic solvent usage that never exceeds 2,839 l (750 gal) per year from all printing lines at the source, including organic solvent from inks, dilutents, fountain solutions and cleaning materials;

n) Storage tanks of:

1) Organic liquids with a capacity of less than 37,850 l (10,000 gal), provided the storage tank is not used to store any material listed as a hazardous air pollutant pursuant to Section 112(b) of the Clean Air Act, and provided the storage tank is not subject to the requirements of 35 Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or 219.583(a)(2);

2) Any size containing exclusively soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials; or

3) Any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil or residual fuel oils;

o) Threaded pipe connections, vessel manways, flanges, valves, pump seals, pressure relief valves, pressure relief devices and pumps;

p) Sampling connections used exclusively to withdraw materials for testing and analyses;

q) All storage tanks of Illinois crude oil with capacity of less than 151,400 l (40,000 gal) located on oil field sites;

r) All organic material-water single or multiple compartment effluent water separator facilities for Illinois crude oil of vapor pressure of less than 34.5 kPa absolute (5 psia);

s) Grain-handling operations, exclusive of grain-drying operations, with an annual grain through-put not exceeding 300,000 bushels;

t) Grain-drying operations with a total grain-drying capacity not exceeding 750 bushels per hour for 5% moisture extraction at manufacturer's rated capacity, using the American Society of Agricultural Engineers Standard 248.2, Section 9, Basis for Stating Drying Capacity of Batch and Continuous-Flow Grain Dryers;

u) Portable grain-handling equipment and one-turn storage space;

v) Cold cleaning degreasers that are not in-line cleaning machines, where the vapor pressure of the solvents used never exceeds 2 kPa (15 mmHg or 0.3 psi) measured at 38°C (100°F) or 0.7 kPa (5 mmHg or 0.1 psi) at 20°C (68°F);

w) Coin-operated dry cleaning operations;

x) Dry cleaning operations at a source that consume less than 30 gallons per month of perchloroethylene;

y) Brazing, soldering, wave soldering or welding equipment, including associated ventilation hoods;

z) Cafeterias, kitchens, and other similar facilities, including smokehouses, used for preparing food or beverages, but not including facilities used in the manufacturing and wholesale distribution of food, beverages, food or beverage products, or food or beverage components;

aa) Equipment for carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, sand blast cleaning, shot blasting, shot peening, or polishing ceramic artwork, leather, metals (other than beryllium), plastics, concrete, rubber, paper stock, wood or wood products, where such equipment is either:

1) Used for maintenance activity;

2) Manually operated;

3) Exhausted inside a building; or

4) Vented externally with emissions controlled by an appropriately operated cyclonic inertial separator (cyclone), filter, electro-static precipitator or a scrubber-;

bb) Feed mills that produce no more than 10,000 tons of feed per calendar year, provided that a permit is not otherwise required for the source pursuant to Section 201.142, 201.143 or 201.144;

cc) Extruders used for the extrusion of metals, minerals, plastics, rubber or wood, excluding:

1) Extruders used in the manufacture of polymers;

2) Extruders using foaming agents or release agents that contain volatile organic materials or Class I or II substances subject to the requirements of Title VI of the Clean Air Act; and

3) Extruders processing scrap material that was produced using foaming agents containing volatile organic materials or Class I or II substances subject to the requirements of Title VI of the Clean Air Act-;

dd) Furnaces used for melting metals, other than beryllium, with a brim full capacity of less than 450 cubic inches by volume;

ee) Equipment used for the melting or application of less than 22,767 kg/yr (50,000 lbs/yr) of wax to which no organic solvent has been added;

ff) Equipment used for filling drums, pails or other packaging containers, excluding aerosol cans, with soaps, detergents, surfactants, lubricating oils, waxes, vegetable oils, greases, animal fats, glycerin, sweeteners, corn syrup, aqueous salt solutions or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials;

gg) Loading and unloading systems for railcars, tank trucks, or watercraft that handle only the following liquid materials: soaps, detergents, surfactants, lubricating oils, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials;

hh) Equipment used for the mixing and blending of materials at ambient temperatures to make water based adhesives, provided each material mixed or blended contains less than 5% organic solvent by weight;

ii) Die casting machines where a metal or plastic is formed under pressure in a die located at a source with a through-put of less than 2,000,000 lbs of metal or plastic per year, in the aggregate, from all die casting machines;

jj) Air pollution control devices used exclusively with other equipment that is exempt from permitting, as provided in this Section;

kk) An emission unit for which a registration system designed to identify sources and emission units subject to emission control requirements is in place, such as the registration system found at 35 Ill. Adm. Code 218.586 (Gasoline Dispensing Operations - Motor Vehicle Fueling Operations) and 35 Ill. Adm. Code 218, Subpart HH (Motor Vehicle Refinishing);

ll) Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy;

mm) Equipment used for hydraulic or hydrostatic testing;

nn) General vehicle maintenance and servicing activities conducted at a source, motor vehicle repair shops, and motor vehicle body shops, but not including:

1) Gasoline fuel handling; and

2) Motor vehicle refinishing-~~r~~;

oo) Equipment using water, water and soap or detergent, or a suspension of abrasives in water for purposes of cleaning or finishing, provided no organic solvent has been added to the water;

pp) Administrative activities including, but not limited to, paper shredding, copying, photographic activities and blueprinting machines. This does not include incinerators;

qq) Laundry dryers, extractors, and tumblers processing that have been cleaned with water solutions of bleach or detergents that are:

1) Located at a source and process clothing, bedding and other fabric items used at the source, provided that any organic solvent present in such items before processing that is retained from cleanup operations shall be addressed as part of the VOM emissions from use of cleaning materials;

2) Located at a commercial laundry; or

3) Coin operated-~~r~~;

rr) Housekeeping activities for cleaning purposes, including collecting spilled and accumulated materials, including operation of fixed vacuum cleaning systems specifically for such purposes, but not including use of cleaning materials that contain organic solvent;

ss) Refrigeration systems, including storage tanks used in refrigeration systems, but excluding any combustion equipment associated with such systems;

tt) Activities associated with the construction, on-site repair, maintenance or dismantlement of buildings, utility lines, pipelines, wells, excavations, earthworks and other structures that do not constitute emission units;

uu) Piping and storage systems for natural gas, propane and liquefied petroleum gas;

vv) Water treatment or storage systems, as follows:

1) Systems for potable water or boiler feedwater;

2) Systems, including cooling towers, for process water, provided that such water has not been in direct or indirect contact with process streams that contain volatile organic material or materials listed as hazardous air pollutants pursuant to Section 112(b) of the Clean Air Act-;

ww) Lawn care, landscape maintenance and grounds keeping activities;

xx) Containers, reservoirs or tanks used exclusively in dipping operations to coat objects with oils, waxes or greases, provided no organic solvent has been mixed with such materials;

yy) Use of consumer products, including hazardous substances as that term is defined in the Federal Hazardous Substances Act (15 USC ~~U.S.C.~~ 1261 et seq.), where the product is used at a source in the same manner as normal consumer use;

zz) Activities directly used in the diagnosis and treatment of disease, injury or other medical condition;

aaa) Activities associated with the construction, repair or maintenance of roads or other paved or open areas, including operation of street sweepers, vacuum trucks, spray trucks and other vehicles related to the control of fugitive emissions of such roads or other areas;

bbb) Storage and handling of drums or other transportable containers, where the containers are sealed during storage and handling;

ccc) Activities at a source associated with the maintenance, repair or dismantlement of an emission unit or other equipment installed at the source, not including the shutdown of the unit or equipment, including preparation for maintenance, repair or dismantlement, and preparation for subsequent startup, including preparation of a shutdown vessel for entry, replacement of insulation, welding and cutting, and steam purging of a vessel prior to startup;

ddd) Equipment used for corona arc discharge surface treatment of plastic with a power rating of 5 kW or less or equipped with an ozone destruction device;

eee) Equipment used to seal or cut plastic bags for commercial, industrial or domestic use;

fff) Each direct-fired gas dryer used for a washing, cleaning, coating or printing line, excluding:

- 1) Dryers with a rated heat input capacity of 2930 kW (10 mmbtu/hr) or more; and
- 2) Dryers for which emissions other than those attributable to combustion of fuel in the dryer, including emissions attributable to use or application of cleaning agents, washing materials, coatings or inks or other process materials that contain volatile organic material are not addressed as part of the permitting of such line, if a permit is otherwise required for the line;

ggg) Municipal solid waste landfills with a maximum total design capacity of less than 2.5 million Mg or 2.5 million m³ that are not required to install a gas collection and control system pursuant to 35 Ill. Adm. Code 220 or 800 through 849 or Section 9.1 of the Act; and

hhh) Replacement or addition of air pollution control equipment for existing emission units in circumstances where:

- 1) The existing emission unit is permitted and has operated in compliance for the past year;
- 2) The new control equipment will provide equal or better control of the target pollutants;
- 3) The new control device will not be accompanied by a net increase in emissions of any non-targeted criteria air pollutant;
- 4) Different State or federal regulatory requirements or newly proposed regulatory requirements will not apply to the unit; and
BOARD NOTE: All sources must comply with underlying federal regulations and future State regulations.

5) Where the existing air pollution control equipment had required monitoring equipment, the new air pollution control equipment will be equipped with the instrumentation and monitoring devices that are typically installed on the new equipment of that type.

BOARD NOTE: For major sources subject to Section 39.5 of the Act, where the new air pollution control equipment will require a different compliance determination method in the facility's CAAPP permit, the facility may need a permit modification to address the changed compliance determination method.

iii) Replacement, addition, or modification of emission units at facilities with federally enforceable State operating permits limiting their potential to emit in circumstances where:

- 1) The potential to emit any regulated air pollutant in the absence of air pollution control equipment from the new emission unit, or the increase in the potential to emit resulting from the modification of any existing emission unit, is less than 0.1 pound per hour or 0.44 tons per year;
- 2) The raw materials and fuels used or present in the emission unit that cause or contribute to emissions, based on the information contained in Material Safety Data Sheets for those materials, do not contain equal to or greater than

0.01 percent by weight of any hazardous air pollutant as defined under Section 112(b) of the federal Clean Air Act;

3) The emission unit or modification is not subject to an emission standard or other regulatory requirement pursuant to Section 111 of the federal Clean Air Act;

4) Potential emissions of regulated air pollutants from the emission unit or modification will not, in combination with emissions from existing units or other proposed units, trigger permitting requirements under Section 39.5, permitting requirements under Section 165 or 173 of the federal Clean Air Act, or the requirement to obtain a revised federally enforceable State operating permit limiting the source's potential to emit; and

5) The source is not currently the subject of a Non-compliance Advisory, Clean Air Act Section 114 Request, Violation Notice, Notice of Violation, Compliance Commitment Agreement, Administrative Order, or civil or criminal enforcement action, related to the air emissions of the source;

jjj) Replacement, addition, or modification of emission units at permitted sources that are not major sources subject to Section 39.5 and that do not have a federally enforceable state operating permit limiting their potential to emit, in circumstances where:

1) The potential to emit of any regulated air pollutant in the absence of air pollution control equipment from the new emission unit, or the increase in the potential to emit resulting from the modification of any existing emission unit is either:

A) Less than 0.1 pound per hour or 0.44 tons per year; or

B) Less than 0.5 pound per hour, and the permittee provides prior notification to the Agency of the intent to construct or install the unit. The unit may be constructed, installed or modified immediately after the notification is filed;

2) The emission unit or modification is not subject to an emission standard or other regulatory requirement under Section 111 or 112 of the federal Clean Air Act;

3) Potential emissions of regulated air pollutants from the emission unit or modification will not, in combination with the emissions from existing units or other proposed units, trigger permitting requirements under Section 39.5 or the requirement to obtain a federally enforceable permit limiting the source's potential to emit; and

4) The source is not currently the subject of a Non-compliance Advisory, Clean Air Act Section 114 Request, Violation Notice, Notice of Violation, Compliance Commitment Agreement, Administrative Order, or civil or criminal enforcement action, related to the air emissions of the source;

kkk) The owner or operator of a CAAPP source is not required to obtain an air pollution control construction permit for the construction or modification of an emission unit or activity that is an insignificant activity as addressed by Section 201.210 or 201.211 of this Part. Section 201.212 of this Part must still be followed, as applicable. Other than excusing the owner or operator of a CAAPP source from the requirement to obtain an air pollution control

construction permit for the emission units or activities, nothing in this subsection shall alter or affect the liability of the CAAPP source for compliance with emission standards and other requirements that apply to the emission units or activities, either individually or in conjunction with other emission units or activities constructed, modified or located at the source.

111) Plastic injection molding equipment with an annual through-put not exceeding 5,000 tons of plastic resin in the aggregate from all plastic injection molding equipment at the source, and all associated plastic resin loading, unloading, conveying, mixing, storage, grinding, and drying equipment and associated mold release and mold cleaning agents.

(Source: Amended at 31 Ill. Reg. _____, effective _____)

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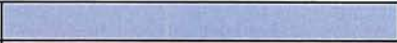




~~ILLINOIS REGISTER~~

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Document comparison done by DeltaView on Thursday, April 26, 2007 2:26:38 PM

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Moved to	0
Style change	0
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Total changes	37

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2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER a: PERMITS AND GENERAL PROVISIONS

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6 PART 201
7 PERMITS AND GENERAL PROVISIONS

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70

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83

84

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86

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102		
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120		
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 131 201.408 Compliance Schedules
 132
 133 201.APPENDIX A Rule into Section Table
 134 201.APPENDIX B Section into Rule Table
 135 201.APPENDIX C Past Compliance Dates
 136

137 **AUTHORITY:** Implementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28.5
 138 of the Environmental Protection Act [415 ILCS 5/10, 27, 28.5, 39, and 39.5].
 139

140 **SOURCE:** Adopted as Chapter 2: Air Pollution, Part I: General Provisions, in R71-23, 4 PCB
 141 191, filed and effective April 14, 1972; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill.
 142 Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January
 143 21, 1983; codified at 7 Ill. Reg. 13579; amended in R82-1 (Docket A) at 10 Ill. Reg. 12628,
 144 effective July 7, 1986; amended in R87-38 at 13 Ill. Reg. 2066, effective February 3, 1989;
 145 amended in R89-7(A) at 13 Ill. Reg. 19444, effective December 5, 1989; amended in R89-7(B)
 146 at 15 Ill. Reg. 17710, effective November 26, 1991; amended in R93-11 at 17 Ill. Reg. 21483,
 147 effective December 7, 1993; amended in R94-12 at 18 Ill. Reg. 15002, effective September 21,
 148 1994; amended in R94-14 at 18 Ill. Reg. 15760, effective October 17, 1994; amended in R96-17
 149 at 21 Ill. Reg. 7878, effective June 17, 1997; amended in R98-13 at 22 Ill. Reg. 11451, effective
 150 June 23, 1998; amended in R98-28 at 22 Ill. Reg. 11823, effective July 31, 1998; amended in
 151 R02-10 at 27 Ill. Reg. 5820, effective March 21, 2003; amended in R05-19 and R05-20 at 30 Ill.
 152 Reg. 4901, effective March 3, 2006; amended in R07-18 at 31 Ill. Reg. _____, effective
 153 _____.
 154

155 **SUBPART C: PROHIBITIONS**
 156

157 **Section 201.146 Exemptions from State Permit Requirements**
 158

159 Construction or operating permits, pursuant to Sections 201.142, 201.143 and 201.144 of this
 160 Part, are not required for the classes of equipment and activities listed below in this Section. The
 161 permitting exemptions in this Section do not relieve the owner or operator of any source from
 162 any obligation to comply with any other applicable requirements, including the obligation to
 163 obtain a permit pursuant to Sections 9.1(d) and 39.5 of the Act, Sections 165, 173 and 502 of the
 164 Clean Air Act or any other applicable permit or registration requirements.
 165

- 166 a) Air contaminant detectors or recorders, combustion controllers or combustion
 167 shutoffs;
- 168
- 169 b) Air conditioning or ventilating equipment not designed to remove air
 170 contaminants generated by or released from associated equipment;
- 171
- 172 c) Each fuel burning emission unit for indirect systems and for heating and reheating

- 173 furnace systems used exclusively for residential, or commercial establishments
 174 using gas and/or fuel oil exclusively with a design heat input capacity of less than
 175 14.6 MW (50 mmbtu/hr), except that a permit shall be required for any such
 176 emission unit with a design heat input capacity of at least 10 mmbtu/hr that was
 177 constructed, reconstructed or modified after June 9, 1989 and that is subject to 40
 178 CFR 60, Subpart D;
 179
- 180 d) Each fuel burning emission unit other than those listed in subsection (c) of this
 181 Section for direct systems used for comfort heating purposes and indirect heating
 182 systems with a design heat input capacity of less than 2930 kW (10 mmbtu/hr);
 183
- 184 e) Internal combustion engines or boilers (including the fuel system) of motor
 185 vehicles, locomotives, air craft, watercraft, lifttrucks and other vehicles powered
 186 by nonroad engines;
 187
- 188 f) Bench scale laboratory equipment and laboratory equipment used exclusively for
 189 chemical and physical analysis, including associated laboratory fume hoods,
 190 vacuum producing devices and control devices installed primarily to address
 191 potential accidental releases;
 192
- 193 g) Coating operations located at a source using not in excess of 18,925 l (5,000 gal)
 194 of coating (including thinner) per year;
 195
- 196 h) Any emission unit acquired exclusively for domestic use, except that a permit
 197 shall be required for any incinerator and for any fuel combustion emission unit
 198 using solid fuel with a design heat input capacity of 14.6 MW (50 mmbtu/hr) or
 199 more;
 200
- 201 i) Any stationary turbine or internal combustion engine with a rated power output of
 202 less than 1118 kW (1500 ~~bhp~~horsepower), except that a permit shall be required
 203 for the following:
 204
- 205 1) Any stationary gas turbine ~~engine~~ with a rated heat input at peak load
 206 of 10.7 gigajoules/hr (10 mmbtu/hr) or more that is constructed,
 207 reconstructed or modified after October 3, 1977 and that is subject to
 208 requirements of 40 CFR 60, Subpart GG; or
 209
- 210 2) Any internal combustion engine with a rating at equal to or greater than
 211 500 bhp output that is subject to the control requirements of 35 Ill. Adm.
 212 Code 217, Subpart Q;
 213
- 214 j) Rest room facilities and associated cleanup operations, and stacks or vents used to
 215 prevent the escape of sewer gases through plumbing traps;

- 216
 217
 218
 219
 220
- k) Safety devices designed to protect life and limb, provided that a permit is not otherwise required for the emission unit with which the safety device is associated;
- 221
 222
 223
 224
- l) Storage tanks for liquids for retail dispensing except for storage tanks that are subject to the requirements of 35 Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or 219.583(a)(2);
- 225
 226
 227
 228
- m) Printing operations with aggregate organic solvent usage that never exceeds 2,839 l (750 gal) per year from all printing lines at the source, including organic solvent from inks, dilutents, fountain solutions and cleaning materials;
- 229
 230
- n) Storage tanks of:
- 231
 232
 233
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 236
- 1) Organic liquids with a capacity of less than 37,850 l (10,000 gal), provided the storage tank is not used to store any material listed as a hazardous air pollutant pursuant to Section 112(b) of the Clean Air Act, and provided the storage tank is not subject to the requirements of 35 Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or 219.583(a)(2);
- 237
 238
 239
 240
 241
- 2) Any size containing exclusively soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials; or
- 242
 243
 244
 245
- 3) Any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil or residual fuel oils;-
- 246
 247
 248
- o) Threaded pipe connections, vessel manways, flanges, valves, pump seals, pressure relief valves, pressure relief devices and pumps;
- 249
 250
 251
- p) Sampling connections used exclusively to withdraw materials for testing and analyses;
- 252
 253
 254
- q) All storage tanks of Illinois crude oil with capacity of less than 151,400 l (40,000 gal) located on oil field sites;
- 255
 256
 257
 258
- r) All organic material-water single or multiple compartment effluent water separator facilities for Illinois crude oil of vapor pressure of less than 34.5 kPa absolute (5 psia);

- 259 s) Grain-handling operations, exclusive of grain-drying operations, with an annual
260 grain through-put not exceeding 300,000 bushels;
261
- 262 t) Grain-drying operations with a total grain-drying capacity not exceeding 750
263 bushels per hour for 5% moisture extraction at manufacturer's rated capacity,
264 using the American Society of Agricultural Engineers Standard 248.2, Section 9,
265 Basis for Stating Drying Capacity of Batch and Continuous-Flow Grain Dryers;
266
- 267 u) Portable grain-handling equipment and one-turn storage space;
268
- 269 v) Cold cleaning degreasers that are not in-line cleaning machines, where the vapor
270 pressure of the solvents used never exceeds 2 kPa (15 mmHg or 0.3 psi) measured
271 at 38°C (100°F) or 0.7 kPa (5 mmHg or 0.1 psi) at 20°C (68°F);
272
- 273 w) Coin-operated dry cleaning operations;
274
- 275 x) Dry cleaning operations at a source that consume less than 30 gallons per month
276 of perchloroethylene;
277
- 278 y) Brazing, soldering, wave soldering or welding equipment, including associated
279 ventilation hoods;
280
- 281 z) Cafeterias, kitchens, and other similar facilities, including smokehouses, used for
282 preparing food or beverages, but not including facilities used in the manufacturing
283 and wholesale distribution of food, beverages, food or beverage products, or food
284 or beverage components;
285
- 286 aa) Equipment for carving, cutting, routing, turning, drilling, machining, sawing,
287 surface grinding, sanding, planing, buffing, sand blast cleaning, shot blasting, shot
288 peening, or polishing ceramic artwork, leather, metals (other than beryllium),
289 plastics, concrete, rubber, paper stock, wood or wood products, where such
290 equipment is either:
291
 - 292 1) Used for maintenance activity;
293
 - 294 2) Manually operated;
295
 - 296 3) Exhausted inside a building; or
297
 - 298 4) Vented externally with emissions controlled by an appropriately operated
299 cyclonic inertial separator (cyclone), filter, electro-static precipitator or a
300 scrubber;:-
301

- 302 bb) Feed mills that produce no more than 10,000 tons of feed per calendar year,
 303 provided that a permit is not otherwise required for the source pursuant to Section
 304 201.142, 201.143 or 201.144;
 305
- 306 cc) Extruders used for the extrusion of metals, minerals, plastics, rubber or wood,
 307 excluding:
 308
- 309 1) Extruders used in the manufacture of polymers;
 - 310
 - 311 2) Extruders using foaming agents or release agents that contain volatile
 312 organic materials or Class I or II substances subject to the requirements of
 313 Title VI of the Clean Air Act; and
 314
 - 315 3) Extruders processing scrap material that was produced using foaming
 316 agents containing volatile organic materials or Class I or II substances
 317 subject to the requirements of Title VI of the Clean Air Act;:-
 318
- 319 dd) Furnaces used for melting metals, other than beryllium, with a brim full capacity
 320 of less than 450 cubic inches by volume;
 321
- 322 ee) Equipment used for the melting or application of less than 22,767 kg/yr (50,000
 323 lbs/yr) of wax to which no organic solvent has been added;
 324
- 325 ff) Equipment used for filling drums, pails or other packaging containers, excluding
 326 aerosol cans, with soaps, detergents, surfactants, lubricating oils, waxes, vegetable
 327 oils, greases, animal fats, glycerin, sweeteners, corn syrup, aqueous salt solutions
 328 or aqueous caustic solutions, provided an organic solvent has not been mixed with
 329 such materials;
 330
- 331 gg) Loading and unloading systems for railcars, tank trucks, or watercraft that handle
 332 only the following liquid materials: soaps, detergents, surfactants, lubricating
 333 oils, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup,
 334 aqueous salt solutions or aqueous caustic solutions, provided an organic solvent
 335 has not been mixed with such materials;
 336
- 337 hh) Equipment used for the mixing and blending of materials at ambient temperatures
 338 to make water based adhesives, provided each material mixed or blended contains
 339 less than 5% organic solvent by weight;
 340
- 341 ii) Die casting machines where a metal or plastic is formed under pressure in a die
 342 located at a source with a through-put of less than 2,000,000 lbs of metal or
 343 plastic per year, in the aggregate, from all die casting machines;
 344

- 345 jj) Air pollution control devices used exclusively with other equipment that is
346 exempt from permitting, as provided in this Section;
347
- 348 kk) An emission unit for which a registration system designed to identify sources and
349 emission units subject to emission control requirements is in place, such as the
350 registration system found at 35 Ill. Adm. Code 218.586 (Gasoline Dispensing
351 Operations – Motor Vehicle Fueling Operations) and 35 Ill. Adm. Code 218,
352 Subpart HH (Motor Vehicle Refinishing);
353
- 354 ll) Photographic process equipment by which an image is reproduced upon material
355 sensitized to radiant energy;
356
- 357 mm) Equipment used for hydraulic or hydrostatic testing;
358
- 359 nn) General vehicle maintenance and servicing activities conducted at a source, motor
360 vehicle repair shops, and motor vehicle body shops, but not including:
361 1) Gasoline fuel handling; and
362 2) Motor vehicle refinishing;-
363
- 364 oo) Equipment using water, water and soap or detergent, or a suspension of abrasives
365 in water for purposes of cleaning or finishing, provided no organic solvent has
366 been added to the water;
367
- 368 pp) Administrative activities including, but not limited to, paper shredding, copying,
369 photographic activities and blueprinting machines. This does not include
370 incinerators;
371
- 372 qq) Laundry dryers, extractors, and tumblers processing that have been cleaned with
373 water solutions of bleach or detergents that are:
374 1) Located at a source and process clothing, bedding and other fabric items
375 used at the source, provided that any organic solvent present in such items
376 before processing that is retained from cleanup operations shall be
377 addressed as part of the VOM emissions from use of cleaning materials;
378 2) Located at a commercial laundry; or
379 3) Coin operated;-
380
- 381 rr) Housekeeping activities for cleaning purposes, including collecting spilled and
382 accumulated materials, including operation of fixed vacuum cleaning systems
383
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- 388 specifically for such purposes, but not including use of cleaning materials that
 389 contain organic solvent;
 390
- 391 ss) Refrigeration systems, including storage tanks used in refrigeration systems, but
 392 excluding any combustion equipment associated with such systems;
 393
- 394 tt) Activities associated with the construction, on-site repair, maintenance or
 395 dismantlement of buildings, utility lines, pipelines, wells, excavations, earthworks
 396 and other structures that do not constitute emission units;
 397
- 398 uu) Piping and storage systems for natural gas, propane and liquefied petroleum gas;
 399
- 400 vv) Water treatment or storage systems, as follows:
 401
- 402 1) Systems for potable water or boiler feedwater;
 403
 - 404 2) Systems, including cooling towers, for process water, provided that such
 405 water has not been in direct or indirect contact with process streams that
 406 contain volatile organic material or materials listed as hazardous air
 407 pollutants pursuant to Section 112(b) of the Clean Air Act;-
 408
- 409 ww) Lawn care, landscape maintenance and grounds keeping activities;
 410
- 411 xx) Containers, reservoirs or tanks used exclusively in dipping operations to coat
 412 objects with oils, waxes or greases, provided no organic solvent has been mixed
 413 with such materials;
 414
- 415 yy) Use of consumer products, including hazardous substances as that term is defined
 416 in the Federal Hazardous Substances Act (15 USC 1261 et seq.), where the
 417 product is used at a source in the same manner as normal consumer use;
 418
- 419 zz) Activities directly used in the diagnosis and treatment of disease, injury or other
 420 medical condition;
 421
- 422 aaa) Activities associated with the construction, repair or maintenance of roads or
 423 other paved or open areas, including operation of street sweepers, vacuum trucks,
 424 spray trucks and other vehicles related to the control of fugitive emissions of such
 425 roads or other areas;
 426
- 427 bbb) Storage and handling of drums or other transportable containers, where the
 428 containers are sealed during storage and handling;
 429
- 430 ccc) Activities at a source associated with the maintenance, repair or dismantlement of

- 431 an emission unit or other equipment installed at the source, not including the
 432 shutdown of the unit or equipment, including preparation for maintenance, repair
 433 or dismantlement, and preparation for subsequent startup, including preparation of
 434 a shutdown vessel for entry, replacement of insulation, welding and cutting, and
 435 steam purging of a vessel prior to startup;
 436
- 437 ddd) Equipment used for corona arc discharge surface treatment of plastic with a power
 438 rating of 5 kW or less or equipped with an ozone destruction device;
 439
- 440 eee) Equipment used to seal or cut plastic bags for commercial, industrial or domestic
 441 use;
 442
- 443 fff) Each direct-fired gas dryer used for a washing, cleaning, coating or printing line,
 444 excluding:
 445
- 446 1) Dryers with a rated heat input capacity of 2930 kW (10 mmbtu/hr) or
 447 more; and
 448
 - 449 2) Dryers for which emissions other than those attributable to combustion of
 450 fuel in the dryer, including emissions attributable to use or application of
 451 cleaning agents, washing materials, coatings or inks or other process
 452 materials that contain volatile organic material are not addressed as part of
 453 the permitting of such line, if a permit is otherwise required for the line;
 454
- 455 ggg) Municipal solid waste landfills with a maximum total design capacity of less than
 456 2.5 million Mg or 2.5 million m³ that are not required to install a gas collection
 457 and control system pursuant to 35 Ill. Adm. Code 220 or 800 through 849 or
 458 Section 9.1 of the Act; ~~and~~
 459
- 460 hhh) Replacement or addition of air pollution control equipment for existing emission
 461 units in circumstances where:
 462
- 463 1) The existing emission unit is permitted and has operated in compliance for
 464 the past year;
 465
 - 466 2) The new control equipment will provide equal or better control of the
 467 target pollutants;
 468
 - 469 3) The new control device will not be accompanied by a net increase in
 470 emissions of any non-targeted criteria air pollutant;
 471
 - 472 4) Different State or federal regulatory requirements or newly proposed
 473 regulatory requirements will not apply to the unit; and

- 474 BOARD NOTE: All sources must comply with underlying federal
475 regulations and future State regulations.
476
- 477 5) Where the existing air pollution control equipment had required
478 monitoring equipment, the new air pollution control equipment will be
479 equipped with the instrumentation and monitoring devices that are
480 typically installed on the new equipment of that type.
481 BOARD NOTE: For major sources subject to Section 39.5 of the Act,
482 where the new air pollution control equipment will require a different
483 compliance determination method in the facility's CAAPP permit, the
484 facility may need a permit modification to address the changed
485 compliance determination method;:-
486
- 487 iii) Replacement, addition, or modification of emission units at facilities with
488 federally enforceable State operating permits limiting their potential to emit in
489 circumstances where:
490
- 491 1) The potential to emit any regulated air pollutant in the absence of air
492 pollution control equipment from the new emission unit, or the increase in
493 the potential to emit resulting from the modification of any existing
494 emission unit, is less than 0.1 pound per hour or 0.44 tons per year;
495
- 496 2) The raw materials and fuels used or present in the emission unit that cause
497 or contribute to emissions, based on the information contained in Material
498 Safety Data Sheets for those materials, do not contain equal to or greater
499 than 0.01 percent by weight of any hazardous air pollutant as defined
500 under Section 112(b) of the federal Clean Air Act;
501
- 502 3) The emission unit or modification is not subject to an emission standard or
503 other regulatory requirement pursuant to Section 111 of the federal Clean
504 Air Act;
505
- 506 4) Potential emissions of regulated air pollutants from the emission unit or
507 modification will not, in combination with emissions from existing units
508 or other proposed units, trigger permitting requirements under Section
509 39.5, permitting requirements under Section 165 or 173 of the federal
510 Clean Air Act, or the requirement to obtain a revised federally enforceable
511 State operating permit limiting the source's potential to emit; and
512
- 513 5) The source is not currently the subject of a Non-compliance Advisory,
514 Clean Air Act Section 114 Request, Violation Notice, Notice of Violation,
515 Compliance Commitment Agreement, Administrative Order, or civil or
516 criminal enforcement action, related to the air emissions of the source;:-

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- jjj) Replacement, addition, or modification of emission units at permitted sources that are not major sources subject to Section 39.5 and that do not have a federally enforceable state operating permit limiting their potential to emit, in circumstances where:
 - 1) The potential to emit of any regulated air pollutant in the absence of air pollution control equipment from the new emission unit, or the increase in the potential to emit resulting from the modification of any existing emission unit is either:
 - A) Less than 0.1 pound per hour or 0.44 tons per year; or
 - B) Less than 0.5 pound per hour, and the permittee provides prior notification to the Agency of the intent to construct or install the unit. The unit may be constructed, installed or modified immediately after the notification is filed;
 - 2) The emission unit or modification is not subject to an emission standard or other regulatory requirement under Section 111 or 112 of the federal Clean Air Act;
 - 3) Potential emissions of regulated air pollutants from the emission unit or modification will not, in combination with the emissions from existing units or other proposed units, trigger permitting requirements under Section 39.5 or the requirement to obtain a federally enforceable permit limiting the source's potential to emit; and
 - 4) The source is not currently the subject of a Non-compliance Advisory, Clean Air Act Section 114 Request, Violation Notice, Notice of Violation, Compliance Commitment Agreement, Administrative Order, or civil or criminal enforcement action, related to the air emissions of the source;
 - kkk) The owner or operator of a CAAPP source is not required to obtain an air pollution control construction permit for the construction or modification of an emission unit or activity that is an insignificant activity as addressed by Section 201.210 or 201.211 of this Part. Section 201.212 of this Part must still be followed, as applicable. Other than excusing the owner or operator of a CAAPP source from the requirement to obtain an air pollution control construction permit for the emission units or activities, nothing in this subsection shall alter or affect the liability of the CAAPP source for compliance with emission standards and other requirements that apply to the emission units or activities, either individually or in conjunction with other emission units or activities constructed,

560 modified or located at the source;:-

561
562 III) Plastic injection molding equipment with an annual through-put not exceeding
563 5,000 tons of plastic resin in the aggregate from all plastic injection molding
564 equipment at the source, and all associated plastic resin loading, unloading,
565 conveying, mixing, storage, grinding, and drying equipment and associated mold
566 release and mold cleaning agents.

567
568 (Source: Amended at 31 Ill. Reg. _____, effective _____)

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

RECEIVED
CLERK'S OFFICE

APR 30 2007

STATE OF ILLINOIS
Pollution Control Board

- 1) Heading of the Part: Definitions and General Provisions
- 2) Code Citation: 35 Ill. Adm. Code Part 211
- 3)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
211.740	New
211.1740	New
211.1920	Amend
211.3300	New
211.5640	New
- 4) Statutory Authority: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5]
- 5) A Complete Description of the Subjects and Issues Involved: For a more detailed discussion of these amendments, see the Board's April 19, 2007 opinion and order in docket R07-18: In the Matter of: Nitrous Oxide (NO_x) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146, 211 and 217. The Illinois Environmental Protection Agency (IEPA) filed this rulemaking proposal April 6, 2007 under the fast-track procedures of Section 28.5 of the Environmental Protection Act, 415 ILCS 5/28.5. The Board received an objection to the use of the fast-track procedures on April 16, 2007 from ANR Pipeline, Natural Gas Pipeline Company, Trunkline Gas Company, and Panhandle Eastern Pipeline Company, and on April 17, 2007 the Illinois Environmental Regulatory Group. Until the time for response to the objections has elapsed and the Board can properly rule on the pending objections, the Board must proceed under the Section 28.5 timetable.

IEPA's statement of reasons explains that these rules are proposed to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.*. Specifically, IEPA intends the rules to satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Phase II of the United States Environmental Protection Agency's (USEPA's) nitrogen oxides (NO_x) State Implementation Plan (SIP) call. The NO_x SIP call required affected states, including Illinois, to regulate NO_x emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA). 69 Fed. Reg. 21604 (April 21, 2004). This statewide proposal will also regulate NO_x emissions from turbines and smaller engines, as part of the State's obligation to meet NO_x reasonably available control technology (RACT) requirements for the 8-hour ozone and fine particulate matter (PM_{2.5}) National Ambient Air Quality Standards (NAAQS), reasonable further progress (RFP), and

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attainment demonstration requirements.

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the Illinois EPA's *Technical Support Document for Controlling NO_x Emissions from Stationary Reciprocating Internal Combustion Engines and Turbines*(TSD) that relied on several published studies and reports. Copies of the reports that the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below.

Technical Support Document for Final Clean Air Interstate Rule, Air Quality Modeling, U.S. EPA, Research Triangle Park, NC, March 2005.

Alternative Control Techniques Document – NO_x Emissions from Stationary Reciprocating Internal Combustion Engines, EPA-453/R-93-032, July 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Alternative Control Techniques Document – NO_x Emissions from Stationary Gas Turbines, EPA-453/R-91-007, January 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Controlling Nitrogen Oxides Under the Clean Air Act: A Menu of Options, July 1994, State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials.

Regulatory Impacts Analysis for the NO_x SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, EPA-452/R-98-003, September 1998, U.S. EPA, Office of Air and Radiation, Washington, DC 20460.

Stationary Reciprocating Internal Combustion Engines Technical Support Document for NO_x SIP Call, October 2003, Doug/Grano/Bill Neuffer, EPA OAR, OAQPS, OPSG.

Assessment of Regional NO_x Emissions in the Upper Midwest, Lake Michigan Directors' Consortium, February 15, 2007 (Att. A to TSD).

- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes

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- 10) Are there any other proposed rulemakings pending on this Part? No
- 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) (2002)].
- 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 45 days after the date of publication in the *Illinois Register*. Comments should reference Docket R07-18 and be addressed to:

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

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

The Board has scheduled hearings for the purposes and on the timetable established by Section 28.5. Each hearing will continue from day-to-day until business is completed:

First hearing: Monday, May 27, 2007
9:00 a.m.
IEPA Office Building,
Training Room 12, 14 West
1021 N. Grand Ave. East, North Entrance
Springfield IL

Second hearing: Tuesday, June 19, 2007
(if necessary) 10:00 a.m.
Auditorium, Room C-500
Michael A. Bilandic Building
160 N. LaSalle St., Fifth Floor
Chicago IL

Third hearing: Monday, July 2, 2007
(if necessary) 1:00 p.m.

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IEPA Office Building,
Training Room 12, 14 West
1021 N. Grand Ave. East, North Entrance
Springfield IL

An April 20, 2007 hearing officer order contains additional details concerning participation in the rulemaking. For more information contact hearing officer Tim Fox at 312/814-6085 or email at foxt@ipcb.state.il.us.

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: None
 - B) Reporting, bookkeeping or other procedures required for compliance: The proposed rulemaking requires the owner or operator of an affected source to perform required emissions monitoring, complete required tests, and record, report as required. The owner or operator of an affected source must also maintain emissions monitoring and testing information.
 - C) Types of Professional skills necessary for compliance: No professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.
- 14) Regulatory Agenda on which this rulemaking was summarized: January 2007

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

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

PART 211
DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section
211.101 Incorporations by Reference
211.102 Abbreviations and Conversion Factors

SUBPART B: DEFINITIONS

Section
211.121 Other Definitions
211.122 Definitions (Repealed)
211.130 Accelacota
211.150 Accumulator
211.170 Acid Gases
211.210 Actual Heat Input
211.230 Adhesive
211.240 Adhesion Promoter
211.250 Aeration
211.270 Aerosol Can Filling Line
211.290 Afterburner
211.310 Air Contaminant
211.330 Air Dried Coatings
211.350 Air Oxidation Process
211.370 Air Pollutant
211.390 Air Pollution
211.410 Air Pollution Control Equipment
211.430 Air Suspension Coater/Dryer
211.450 Airless Spray
211.470 Air Assisted Airless Spray
211.474 Alcohol
211.479 Allowance
211.484 Animal
211.485 Animal Pathological Waste
211.490 Annual Grain Through-Put
211.495 Anti-Glare/Safety Coating
211.510 Application Area
211.530 Architectural Coating
211.550 As Applied
211.560 As-Applied Fountain Solution
211.570 Asphalt
211.590 Asphalt Prime Coat
211.610 Automobile
211.630 Automobile or Light-Duty Truck Assembly Source or Automobile or
Light-Duty Truck Manufacturing Plant
211.650 Automobile or Light-Duty Truck Refinishing
211.660 Automotive/Transportation Plastic Parts
211.670 Baked Coatings
211.680 Bakery Oven

211.685 Basecoat/Clearcoat System
211.690 Batch Loading
211.695 Batch Operation
211.696 Batch Process Train
211.710 Bead-Dipping
211.730 Binders
211.740 ~~Brakehorsepower~~Brake horsepower (rated-bhp)
211.750 British Thermal Unit
211.770 Brush or Wipe Coating
211.790 Bulk Gasoline Plant
211.810 Bulk Gasoline Terminal
211.820 Business Machine Plastic Parts
211.830 Can
211.850 Can Coating
211.870 Can Coating Line
211.890 Capture
211.910 Capture Device
211.930 Capture Efficiency
211.950 Capture System
211.953 Carbon Adsorber
211.955 Cement
211.960 Cement Kiln
211.970 Certified Investigation
211.980 Chemical Manufacturing Process Unit
211.990 Choke Loading
211.1010 Clean Air Act
211.1050 Cleaning and Separating Operation
211.1070 Cleaning Materials
211.1090 Clear Coating
211.1110 Clear Topcoat
211.1120 Clinker
211.1130 Closed Purge System
211.1150 Closed Vent System
211.1170 Coal Refuse
211.1190 Coating
211.1210 Coating Applicator
211.1230 Coating Line
211.1250 Coating Plant
211.1270 Coil Coating
211.1290 Coil Coating Line
211.1310 Cold Cleaning
211.1312 Combined Cycle System
211.1316 Combustion Turbine
211.1320 Commence Commercial Operation
211.1324 Commence Operation
211.1328 Common Stack
211.1330 Complete Combustion
211.1350 Component
211.1370 Concrete Curing Compounds
211.1390 Concentrated Nitric Acid Manufacturing Process
211.1410 Condensate
211.1430 Condensible PM-10
211.1465 Continuous Automatic Stoking
211.1467 Continuous Coater
211.1470 Continuous Process
211.1490 Control Device
211.1510 Control Device Efficiency

211.1515 Control Period
211.1520 Conventional Air Spray
211.1530 Conventional Soybean Crushing Source
211.1550 Conveyorized Degreasing
211.1570 Crude Oil
211.1590 Crude Oil Gathering
211.1610 Crushing
211.1630 Custody Transfer
211.1650 Cutback Asphalt
211.1670 Daily-Weighted Average VOM Content
211.1690 Day
211.1710 Degreaser
211.1730 Delivery Vessel
211.1740 Diesel Engine
211.1750 Dip Coating
211.1770 Distillate Fuel Oil
211.1780 Distillation Unit
211.1790 Drum
211.1810 Dry Cleaning Operation or Dry Cleaning Facility
211.1830 Dump-Pit Area
211.1850 Effective Grate Area
211.1870 Effluent Water Separator
211.1875 Elastomeric Materials
211.1880 Electromagnetic Interference/Radio Frequency Interference (EMI/RFI)
Shielding Coatings
211.1885 Electronic Component
211.1890 Electrostatic Bell or Disc Spray
211.1900 Electrostatic Prep Coat
211.1910 Electrostatic Spray
211.1920 Emergency or Standby Unit
211.1930 Emission Rate
211.1950 Emission Unit
211.1970 Enamel
211.1990 Enclose
211.2010 End Sealing Compound Coat
211.2030 Enhanced Under-the-Cup Fill
211.2050 Ethanol Blend Gasoline
211.2070 Excess Air
211.2080 Excess Emissions
211.2090 Excessive Release
211.2110 Existing Grain-Drying Operation (Repealed)
211.2130 Existing Grain-Handling Operation (Repealed)
211.2150 Exterior Base Coat
211.2170 Exterior End Coat
211.2190 External Floating Roof
211.2210 Extreme Performance Coating
211.2230 Fabric Coating
211.2250 Fabric Coating Line
211.2270 Federally Enforceable Limitations and Conditions
211.2285 Feed Mill
211.2290 Fermentation Time
211.2300 Fill
211.2310 Final Repair Coat
211.2330 Firebox
211.2350 Fixed-Roof Tank
211.2360 Flexible Coating
211.2365 Flexible Operation Unit

211.2370 Flexographic Printing
211.2390 Flexographic Printing Line
211.2410 Floating Roof
211.2420 Fossil Fuel
211.2425 Fossil Fuel-Fired
211.2430 Fountain Solution
211.2450 Freeboard Height
211.2470 Fuel Combustion Emission Unit or Fuel Combustion Emission Source
211.2490 Fugitive Particulate Matter
211.2510 Full Operating Flowrate
211.2530 Gas Service
211.2550 Gas/Gas Method
211.2570 Gasoline
211.2590 Gasoline Dispensing Operation or Gasoline Dispensing Facility
211.2610 Gel Coat
211.2620 Generator
211.2630 Gloss Reducers
211.2650 Grain
211.2670 Grain-Drying Operation
211.2690 Grain-Handling and Conditioning Operation
211.2710 Grain-Handling Operation
211.2730 Green-Tire Spraying
211.2750 Green Tires
211.2770 Gross Heating Value
211.2790 Gross Vehicle Weight Rating
211.2810 Heated Airless Spray
211.2815 Heat Input
211.2820 Heat Input Rate
211.2830 Heatset
211.2850 Heatset Web Offset Lithographic Printing Line
211.2870 Heavy Liquid
211.2890 Heavy Metals
211.2910 Heavy Off-Highway Vehicle Products
211.2930 Heavy Off-Highway Vehicle Products Coating
211.2950 Heavy Off-Highway Vehicle Products Coating Line
211.2970 High Temperature Aluminum Coating
211.2990 High Volume Low Pressure (HVLP) Spray
211.3010 Hood
211.3030 Hot Well
211.3050 Housekeeping Practices
211.3070 Incinerator
211.3090 Indirect Heat Transfer
211.3110 Ink
211.3130 In-Process Tank
211.3150 In-Situ Sampling Systems
211.3170 Interior Body Spray Coat
211.3190 Internal-Floating Roof
211.3210 Internal Transferring Area
211.3230 Lacquers
211.3250 Large Appliance
211.3270 Large Appliance Coating
211.3290 Large Appliance Coating Line
211.3300 Lean-Burn Engine
211.3310 Light Liquid
211.3330 Light-Duty Truck
211.3350 Light Oil
211.3370 Liquid/Gas Method

211.3390 Liquid-Mounted Seal
211.3410 Liquid Service
211.3430 Liquids Dripping
211.3450 Lithographic Printing Line
211.3470 Load-Out Area
211.3480 Loading Event
211.3483 Long Dry Kiln
211.3485 Long Wet Kiln
211.3487 Low-NOx Burner
211.3490 Low Solvent Coating
211.3500 Lubricating Oil
211.3510 Magnet Wire
211.3530 Magnet Wire Coating
211.3550 Magnet Wire Coating Line
211.3570 Major Dump Pit
211.3590 Major Metropolitan Area (MMA)
211.3610 Major Population Area (MPA)
211.3620 Manually Operated Equipment
211.3630 Manufacturing Process
211.3650 Marine Terminal
211.3660 Marine Vessel
211.3670 Material Recovery Section
211.3690 Maximum Theoretical Emissions
211.3695 Maximum True Vapor Pressure
211.3710 Metal Furniture
211.3730 Metal Furniture Coating
211.3750 Metal Furniture Coating Line
211.3770 Metallic Shoe-Type Seal
211.3780 Mid-Kiln Firing
211.3790 Miscellaneous Fabricated Product Manufacturing Process
211.3810 Miscellaneous Formulation Manufacturing Process
211.3830 Miscellaneous Metal Parts and Products
211.3850 Miscellaneous Metal Parts and Products Coating
211.3870 Miscellaneous Metal Parts or Products Coating Line
211.3890 Miscellaneous Organic Chemical Manufacturing Process
211.3910 Mixing Operation
211.3915 Mobile Equipment
211.3930 Monitor
211.3950 Monomer
211.3960 Motor Vehicles
211.3965 Motor Vehicle Refinishing
211.3970 Multiple Package Coating
211.3980 Nameplate Capacity
211.3990 New Grain-Drying Operation (Repealed)
211.4010 New Grain-Handling Operation (Repealed)
211.4030 No Detectable Volatile Organic Material Emissions
211.4050 Non-Contact Process Water Cooling Tower
211.4055 Non-Flexible Coating
211.4065 Non-Heatset
211.4067 NOx Trading Program
211.4070 Offset
211.4090 One Hundred Percent Acid
211.4110 One-Turn Storage Space
211.4130 Opacity
211.4150 Opaque Stains
211.4170 Open Top Vapor Degreasing
211.4190 Open-Ended Valve

211.4210 Operator of a Gasoline Dispensing Operation or Operator of a Gasoline Dispensing Facility
211.4230 Organic Compound
211.4250 Organic Material and Organic Materials
211.4260 Organic Solvent
211.4270 Organic Vapor
211.4290 Oven
211.4310 Overall Control
211.4330 Overvarnish
211.4350 Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing Facility
211.4370 Owner or Operator
211.4390 Packaging Rotogravure Printing
211.4410 Packaging Rotogravure Printing Line
211.4430 Pail
211.4450 Paint Manufacturing Source or Paint Manufacturing Plant
211.4470 Paper Coating
211.4490 Paper Coating Line
211.4510 Particulate Matter
211.4530 Parts Per Million (Volume) or PPM (Vol)
211.4550 Person
211.4590 Petroleum
211.4610 Petroleum Liquid
211.4630 Petroleum Refinery
211.4650 Pharmaceutical
211.4670 Pharmaceutical Coating Operation
211.4690 Photochemically Reactive Material
211.4710 Pigmented Coatings
211.4730 Plant
211.4740 Plastic Part
211.4750 Plasticizers
211.4770 PM-10
211.4790 Pneumatic Rubber Tire Manufacture
211.4810 Polybasic Organic Acid Partial Oxidation Manufacturing Process
211.4830 Polyester Resin Material(s)
211.4850 Polyester Resin Products Manufacturing Process
211.4870 Polystyrene Plant
211.4890 Polystyrene Resin
211.4910 Portable Grain-Handling Equipment
211.4930 Portland Cement Manufacturing Process Emission Source~~211.4950-1~~
211.4950 Portland Cement Process or Portland Cement Manufacturing Plant
211.4960 Potential Electrical Output Capacity
211.4970 Potential to Emit
211.4990 Power Driven Fastener Coating
211.5010 Precoat
211.5015 Preheater Kiln
211.5020 Preheater/Precalciner Kiln
211.5030 Pressure Release
211.5050 Pressure Tank
211.5060 Pressure/Vacuum Relief Valve
211.5061 Pretreatment Wash Primer
211.5065 Primary Product
211.5070 Prime Coat
211.5080 Primer Sealer
211.5090 Primer Surfacer Coat
211.5110 Primer Surfacer Operation
211.5130 Primers

211.5150 Printing
211.5170 Printing Line
211.5185 Process Emission Source
211.5190 Process Emission Unit
211.5210 Process Unit
211.5230 Process Unit Shutdown
211.5245 Process Vent
211.5250 Process Weight Rate
211.5270 Production Equipment Exhaust System
211.5310 Publication Rotogravure Printing Line
211.5330 Purged Process Fluid
211.5340 Rated Heat Input Capacity
211.5350 Reactor
211.5370 Reasonably Available Control Technology (RACT)
211.5390 Reclamation System
211.5410 Refiner
211.5430 Refinery Fuel Gas
211.5450 Refinery Fuel Gas System
211.5470 Refinery Unit or Refinery Process Unit
211.5480 Reflective Argent Coating
211.5490 Refrigerated Condenser
211.5500 Regulated Air Pollutant
211.5510 Reid Vapor Pressure
211.5530 Repair
211.5550 Repair Coat
211.5570 Repaired
211.5580 Repowering
211.5590 Residual Fuel Oil
211.5600 Resist Coat
211.5610 Restricted Area
211.5630 Retail Outlet
211.5640 Rich-Burn Engine
211.5650 Ringelmann Chart
211.5670 Roadway
211.5690 Roll Coater
211.5710 Roll Coating
211.5730 Roll Printer
211.5750 Roll Printing
211.5770 Rotogravure Printing
211.5790 Rotogravure Printing Line
211.5810 Safety Relief Valve
211.5830 Sandblasting
211.5850 Sanding Sealers
211.5870 Screening
211.5880 Screen Printing on Paper
211.5890 Sealer
211.5910 Semi-Transparent Stains
211.5930 Sensor
211.5950 Set of Safety Relief Valves
211.5970 Sheet Basecoat
211.5980 Sheet-Fed
211.5990 Shotblasting
211.6010 Side-Seam Spray Coat
211.6025 Single Unit Operation
211.6030 Smoke
211.6050 Smokeless Flare
211.6060 Soft Coat

211.6070 Solvent
211.6090 Solvent Cleaning
211.6110 Solvent Recovery System
211.6130 Source
211.6140 Specialty Coatings
211.6145 Specialty Coatings for Motor Vehicles
211.6150 Specialty High Gloss Catalyzed Coating
211.6170 Specialty Leather
211.6190 Specialty Soybean Crushing Source
211.6210 Splash Loading
211.6230 Stack
211.6250 Stain Coating
211.6270 Standard Conditions
211.6290 Standard Cubic Foot (scf)
211.6310 Start-Up
211.6330 Stationary Emission Source
211.6350 Stationary Emission Unit
211.6355 Stationary Gas Turbine
211.6360 Stationary Reciprocating Internal Combustion Engine
211.6370 Stationary Source
211.6390 Stationary Storage Tank
211.6400 Stencil Coat
211.6410 Storage Tank or Storage Vessel
211.6420 Strippable Spray Booth Coating
211.6430 Styrene Devolatilizer Unit
211.6450 Styrene Recovery Unit
211.6470 Submerged Loading Pipe
211.6490 Substrate
211.6510 Sulfuric Acid Mist
211.6530 Surface Condenser
211.6540 Surface Preparation Materials
211.6550 Synthetic Organic Chemical or Polymer Manufacturing Plant
211.6570 Tablet Coating Operation
211.6580 Texture Coat
211.6590 Thirty-Day Rolling Average
211.6610 Three-Piece Can
211.6620 Three or Four Stage Coating System
211.6630 Through-the-Valve Fill
211.6650 Tooling Resin
211.6670 Topcoat
211.6690 Topcoat Operation
211.6695 Topcoat System
211.6710 Touch-Up
211.6720 Touch-Up Coating
211.6730 Transfer Efficiency
211.6750 Tread End Cementing
211.6770 True Vapor Pressure
211.6790 Turnaround
211.6810 Two-Piece Can
211.6830 Under-the-Cup Fill
211.6850 Undertread Cementing
211.6860 Uniform Finish Blender
211.6870 Unregulated Safety Relief Valve
211.6880 Vacuum Metallizing
211.6890 Vacuum Producing System
211.6910 Vacuum Service
211.6930 Valves Not Externally Regulated

211.6950 Vapor Balance System
 211.6970 Vapor Collection System
 211.6990 Vapor Control System
 211.7010 Vapor-Mounted Primary Seal
 211.7030 Vapor Recovery System
 211.7050 Vapor-Suppressed Polyester Resin
 211.7070 Vinyl Coating
 211.7090 Vinyl Coating Line
 211.7110 Volatile Organic Liquid (VOL)
 211.7130 Volatile Organic Material Content (VOMC)
 211.7150 Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
 211.7170 Volatile Petroleum Liquid
 211.7190 Wash Coat
 211.7200 Washoff Operations
 211.7210 Wastewater (Oil/Water) Separator
 211.7230 Weak Nitric Acid Manufacturing Process
 211.7250 Web
 211.7270 Wholesale Purchase - Consumer
 211.7290 Wood Furniture
 211.7310 Wood Furniture Coating
 211.7330 Wood Furniture Coating Line
 211.7350 Woodworking
 211.7400 Yeast Percentage

211. ~~Appendix~~ APPENDIX A Rule into Section Table

211. ~~Appendix~~ APPENDIX B Section into Rule Table

AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, 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. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1, 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill.

Reg. 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995; amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill. Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695, effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997; amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill. ~~Reg. Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, 108, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4582,~~ effective March 15, 2001; amended in R01-17 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg. _____, effective _____.

SUBPART B: DEFINITIONS

Section 211.740 ~~Brakehorsepower~~ Brake horsepower (rated-bhp)

"~~Brakehorsepower~~ (Brake horsepower" or "bhp)" means the rated horsepower capacity of the engine as defined on the engine nameplate at standard conditions.

(Source: Added at 31 Ill. Reg. _____, effective _____)

Section 211.1740 Diesel Engine

"Diesel engine" means, for the purposes of 35 Ill. Adm. Code 217, Subpart Q, a compression ignited two- or four-stroke engine in which liquid fuel injected into the combustion chamber ignites when the air charge is compressed to a temperature sufficiently high for auto-ignition.

(Source: Added at 31 Ill. Reg. _____, effective _____)

Section 211.1920 Emergency or Standby Unit

"Emergency or ~~Standby Unit~~ standby unit" means, for a stationary gas turbine or a stationary reciprocating internal combustion engine, a unit that:

- a) Supplies power for the source at which it is located but operates only when the normal supply of power has been rendered unavailable by circumstances beyond the control of the owner or operator of the source and only as necessary to assure the availability of the engine or turbine. An emergency standby unit may not be operated to supplement a primary power source when the load capacity or rating of the primary power source has been reached or exceeded.†
- b) Operates exclusively for firefighting or flood control or both.† ~~or~~
- c) Operates in response to and during the existence of any officially declared disaster or state of emergency.
- d) Operates for the purpose of testing, repair or routine maintenance to verify its readiness for emergency standby use.

The term does not include equipment used for purposes other than emergencies, as described above, such as to supply power during high electric demand days.

(Source: Amended at 31 Ill. Reg. , effective)

Section 211.3300 Lean-Burn Engine

"Lean-burn engine" means any spark-ignited engine that is not a rich-burn engine.

(Source: Added at 31 Ill. Reg. , effective)

Section 211.5640 Rich-Burn Engine

"Rich-burn engine" means a spark-ignited engine where the oxygen content in the exhaust stream of the engine before any dilutions is 1 percent or less by volume measured on a dry basis.

(Source: Added at 31 Ill. Reg. , effective)

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~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENT~~

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4 SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
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- 474 211.7270 Wholesale Purchase – Consumer
- 475 211.7290 Wood Furniture
- 476 211.7310 Wood Furniture Coating
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- 478 211.7350 Woodworking
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- 480
- 481 211.APPENDIX A Rule into Section Table
- 482 211.APPENDIX B Section into Rule Table
- 483

484 AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and
 485 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5].

486

487 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191,
 488 filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p.
 489 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30,
 490 p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21,
 491 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective
 492 July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in
 493 R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804,
 494 effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective
 495 December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended
 496 in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg.
 497 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1,
 498 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-
 499 30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901,
 500 effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991;
 501 amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16
 502 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August
 503 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in
 504 R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg.
 505 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September
 506 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in
 507 R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg.
 508 16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg.
 509 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995;
 510 amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill.
 511 Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May
 512 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-
 513 17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695,
 514 effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997;
 515 amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill.
 516 Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 108, effective December

517 26, 2000; amended in R01-11 at 25 Ill. Reg. 4582, effective March 15, 2001; amended in R01-17
518 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective
519 May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in
520 R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg.
521 _____, effective _____.

522
523 **SUBPART B: DEFINITIONS**
524

525 **Section 211.740 Brake horsepower (rated-bhp)**
526

527 "Brake horsepower" or "bhp" means the rated horsepower capacity of the engine as defined on
528 the engine nameplate at standard conditions.

529
530 (Source: Added at 31 Ill. Reg. _____, effective _____)
531

532 **Section 211.1740 Diesel Engine**
533

534 "Diesel engine" means, for the purposes of 35 Ill. Adm. Code 217, Subpart Q, a compression
535 ignited two- or four-stroke engine in which liquid fuel injected into the combustion chamber
536 ignites when the air charge is compressed to a temperature sufficiently high for auto-ignition.
537

538 (Source: Added at 31 Ill. Reg. _____, effective _____)
539

540 **Section 211.1920 Emergency or Standby Unit**
541

542 "Emergency or standby unit" means, for a stationary gas turbine or a stationary reciprocating
543 internal combustion engine, a unit that:

- 544
- 545 a) Supplies power for the source at which it is located but operates only when the
546 normal supply of power has been rendered unavailable by circumstances beyond
547 the control of the owner or operator of the source and only as necessary to assure
548 the availability of the engine or turbine. An emergency standby unit may not be
549 operated to supplement a primary power source when the load capacity or rating
550 of the primary power source has been reached or exceeded.;
551
 - 552 b) Operates exclusively for firefighting or flood control or both. ~~;~~
553
 - 554 c) Operates in response to and during the existence of any officially declared disaster
555 or state of emergency.
556
 - 557 d) Operates for the purpose of testing, repair or routine maintenance to verify its
558 readiness for emergency standby use.
559

560 The term does not include equipment used for purposes other than emergencies, as described
561 above, such as to supply power during high electric demand days.

562

563 (Source: Amended at 31 Ill. Reg. _____, effective _____)

564

565 **Section 211.3300 Lean-Burn Engine**

566

567 "Lean-burn engine" means any spark-ignited engine that is not a rich-burn engine.

568

569 (Source: Added at 31 Ill. Reg. _____, effective _____)

570

571 **Section 211.5640 Rich-Burn Engine**

572

573 "Rich-burn engine" means a spark-ignited engine where the oxygen content in the exhaust stream
574 of the engine before any dilutions is 1 percent or less by volume measured on a dry basis.

575

576 (Source: Added at 31 Ill. Reg. _____, effective _____)

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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CLERK'S OFFICE

APR 30 2007

STATE OF ILLINOIS
Pollution Control Board

- 1) Heading of the Part: Nitrogen Oxides Emissions
- 2) Code Citation: 35 Ill. Adm. Code 217
- 3)

<u>Section Numbers:</u>	<u>Proposed Action:</u>
217.101	Amend
217.102	Amend
217.104	Amend
217.386	New
217.388	New
217.390	New
217.392	New
217.394	New
217.396	New
217.APPENDIX G	New
- 4) Statutory Authority: The Illinois Environmental Protection Act [415 ILCS 5/9.9, 27 and 28.5]
- 5) A Complete Description of the Subjects and Issues Involved: For a more detailed discussion of these amendments, see the Board's April 19, 2007 opinion and order in docket R07-18: In the Matter of: Nitrous Oxide (NO_x) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146, 211 and 217. The Illinois Environmental Protection Agency (IEPA) filed this rulemaking proposal April 6, 2007 under the fast-track procedures of Section 28.5 of the Environmental Protection Act, 415 ILCS 5/28.5. The Board received an objection to the use of the fast-track procedures on April 16, 2007 from ANR Pipeline, Natural Gas Pipeline Company, Trunkline Gas Company, and Panhandle Eastern Pipeline Company, and on April 17, 2007 the Illinois Environmental Regulatory Group. Until the time for response to the objections has elapsed and the Board can properly rule on the pending objections, the Board must proceed under the Section 28.5 timetable.

IEPA's statement of reasons explains that these rules are proposed to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.* Specifically, IEPA intends the rules to satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Phase II of the United States Environmental Protection Agency's (USEPA's) nitrogen oxides (NO_x) State Implementation Plan (SIP) call. The NO_x SIP call required affected states, including Illinois, to regulate NO_x emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA). 69 Fed. Reg. 21604 (April 21, 2004). This

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

statewide proposal will also regulate NO_x emissions from turbines and smaller engines, as part of the State's obligation to meet NO_x reasonably available control technology (RACT) requirements for the 8-hour ozone and fine particulate matter (PM_{2.5}) National Ambient Air Quality Standards (NAAQS), reasonable further progress (RFP), and attainment demonstration requirements.

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: The regulatory proposal included the Illinois EPA's *Technical Support Document for Controlling NO_x Emissions from Stationary Reciprocating Internal Combustion Engines and Turbines* (TSD) that relied on several published studies and reports. Copies of the reports that the Illinois EPA relied upon are available for review with the Pollution Control Board and are listed below.

Technical Support Document for Final Clean Air Interstate Rule, Air Quality Modeling, U.S. EPA, Research Triangle Park, NC, March 2005.

Alternative Control Techniques Document – NO_x Emissions from Stationary Reciprocating Internal Combustion Engines, EPA-453/R-93-032, July 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Alternative Control Techniques Document – NO_x Emissions from Stationary Gas Turbines, EPA-453/R-91-007, January 1993, U.S. EPA, OAQPS, RTP, NC 27711.

Controlling Nitrogen Oxides Under the Clean Air Act: A Menu of Options, July 1994, State and Territorial Air Pollution Program Administrators/Association of Local Air Pollution Control Officials.

Regulatory Impacts Analysis for the NO_x SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, EPA-452/R-98-003, September 1998, U.S. EPA, Office of Air and Radiation, Washington, DC 20460.

Stationary Reciprocating Internal Combustion Engines Technical Support Document for NO_x SIP Call, October 2003, Doug/Grano/Bill Neuffer, EPA OAR, OAQPS, OPSG.

Assessment of Regional NO_x Emissions in the Upper Midwest, Lake Michigan Directors' Consortium, February 15, 2007 (Att. A to TSD).

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

160 N. LaSalle St., Fifth Floor
Chicago, IL

Third hearing: Monday, July 2, 2007
(if necessary) 1:00 p.m.
IEPA Office Building,
Training Room 12,14 West
1021 N. Grand Ave. East, North Entrance
Springfield, IL

An April 20, 2007 hearing officer order contains additional details concerning participation in the rulemaking. For more information contact hearing officer Tim Fox at 312/814-6085 or email at foxt@ipcb.state.il.us.

13) Initial Regulatory Flexibility Analysis:

- A) Types of small businesses, small municipalities and not for profit corporations affected: None
- B) Reporting, bookkeeping or other procedures required for compliance:
The proposed rulemaking requires the owner or operator of an affected source to perform required emissions monitoring, complete required tests, and record, report as required. The owner or operator of an affected source must also maintain emissions monitoring and testing information.
- C) Types of Professional skills necessary for compliance: No professional skills beyond those currently required by the existing state and federal air pollution control regulations applicable to affected sources will be required.

14) Regulatory Agenda on which this rulemaking was summarized: January 2007

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

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

PART 217
NITROGEN OXIDES EMISSIONS

SUBPART A: GENERAL PROVISIONS

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217.100 Scope and Organization
217.101 Measurement Methods
217.102 Abbreviations and Units
217.103 Definitions
217.104 Incorporations by Reference

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

Section
217.121 New Emission Sources

SUBPART C: EXISTING FUEL COMBUSTION EMISSION SOURCES

Section
217.141 Existing Emission Sources in Major Metropolitan Areas

SUBPART K: PROCESS EMISSION SOURCES

Section
217.301 Industrial Processes

SUBPART O: CHEMICAL MANUFACTURE

Section
217.381 Nitric Acid Manufacturing Processes

SUBPART Q: STATIONARY RECIPROCATING
INTERNAL COMBUSTION ENGINES AND TURBINES

Section
217.386 Applicability
217.388 Control and Maintenance Requirements
217.390 Emissions Averaging Plans
217.392 Compliance
217.394 Testing and Monitoring
217.396 Recordkeeping and Reporting

SUBPART T: CEMENT KILNS

Section
217.400 Applicability
217.402 Control Requirements
217.404 Testing
217.406 Monitoring
217.408 Reporting

217.410 Recordkeeping

SUBPART U: NOx CONTROL AND TRADING PROGRAM FOR
SPECIFIED NOx GENERATING UNITS

Section

217.450 Purpose
217.452 Severability
217.454 Applicability
217.456 Compliance Requirements
217.458 Permitting Requirements
217.460 Subpart U NOx Trading Budget
217.462 Methodology for Obtaining NOx Allocations
217.464 Methodology for Determining NOx Allowances from the New Source Set-
Aside
217.466 NOx Allocations Procedure for Subpart U Budget Units
217.468 New Source Set-Asides for "New" Budget Units
217.470 Early Reduction Credits (ERCs) for Budget Units
217.472 Low-Emitter Requirements
217.474 Opt-In Units
217.476 Opt-In Process
217.478 Opt-In Budget Units: Withdrawal from NOx Trading Program
217.480 Opt-In Units: Change in Regulatory Status
217.482 Allowance Allocations to Opt-In Budget Units

SUBPART V: ELECTRIC POWER GENERATION

Section

217.521 Lake of Egypt Power Plant
217.700 Purpose
217.702 Severability
217.704 Applicability
217.706 Emission Limitations
217.708 NOx Averaging
217.710 Monitoring
217.712 Reporting and Recordkeeping

SUBPART W: NOx TRADING PROGRAM FOR
ELECTRICAL GENERATING UNITS

Section

217.750 Purpose
217.752 Severability
217.754 Applicability
217.756 Compliance Requirements
217.758 Permitting Requirements
217.760 NOx Trading Budget
217.762 Methodology for Calculating NOx Allocations for Budget Electrical
Generating Units (EGUs)
217.764 NOx Allocations for Budget EGUs
217.768 New Source Set-Asides for "New" Budget EGUs
217.770 Early Reduction Credits for Budget EGUs
217.774 Opt-In Units
217.776 Opt-In Process
217.778 Budget Opt-In Units: Withdrawal from NOx Trading Program
217.780 Opt-In Units: Change in Regulatory Status
217.782 Allowance Allocations to Budget Opt-In Units

SUBPART X: VOLUNTARY NOx EMISSIONS REDUCTION PROGRAM

Section	
217.800	Purpose
217.805	Emission Unit Eligibility
217.810	Participation Requirements
217.815	NOx Emission Reductions and the Subpart X NOx Trading Budget
217.820	Baseline Emissions Determination
217.825	Calculation of Creditable NOx Emission Reductions
217.830	Limitations on NOx Emission Reductions
217.835	NOx Emission Reduction Proposal
217.840	Agency Action
217.845	Emissions Determination Methods
217.850	Emissions Monitoring
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217.860	Recordkeeping
217.865	Enforcement

217. Appendix APPENDIX A	Rule into Section Table
217. Appendix APPENDIX B	Section into Rule Table
217. Appendix APPENDIX C	Compliance Dates
217. Appendix APPENDIX D	Non-Electrical Generating Units
217. Appendix APPENDIX E	Large Non-Electrical Generating Units
217. Appendix APPENDIX F	Allowances for Electrical Generating Units
217. Appendix APPENDIX G	Existing Reciprocating Internal Combustion Engines Affected by the NOx SIP Call

~~Authority~~ AUTHORITY: Implementing Sections 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9.9, 10, 27 and 28.5 (2004)].

~~Source~~ SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. _____, effective ____.

SUBPART A: GENERAL PROVISIONS

Section 217.101 Measurement Methods

Measurement of nitrogen oxides ~~must~~ shall be according to:

- a) The phenol disulfonic acid ~~procedures~~ ~~method~~ procedures, 40 CFR 60, Appendix A, Method 7, as incorporated by reference in Section 217.104 ~~(1999)~~;
- b) Continuous emissions monitoring pursuant to 40 CFR 75, as incorporated by reference in Section 217.104 ~~(1999)~~; ~~and;~~
- c) Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure), 40 CFR 60, Appendix A, Method 7E, as incorporated by reference in Section 217.104; ~~(1999)~~.
- d) Monitoring with portable monitors pursuant to ASTM D6522-00, as incorporated by reference in Section 217.104; and

e) How do I conduct the initial and subsequent performance tests (for turbines), regarding NOx pursuant to 40 CFR 60.4400, as incorporated by reference in Section 217.104.

(Source: Amended at 31 Ill. Reg. , effective)

Section 217.102 Abbreviations and Units

a) The following abbreviations are used in this Part:

~~ASTM American Society for Testing and Materials~~

~~Bbtu British thermal unit (60°F)~~
~~bhp brake horsepower~~ ~~CEMS continuous~~ ~~bhp brake horsepower~~ ~~CEMS continuous~~
emissions monitoring system ~~EGU Electrical Generating Unit~~ ~~EGU Electrical Generating Unit~~
~~Unitdscfdry standard cubic feetg/bhp-hr grams per brake horsepower-hour~~
~~kg kilogram~~
~~kg/MW-hr kilograms per megawatt-hour, usually used as an hourly emission rate~~
~~lb pound~~
~~NOx- Nitrogen Oxideslbs/mmBtu pounds per million btu, usually used as an hourly emission rate~~
~~Mg megagram or metric tonne~~
~~mm millionmmBtu million British thermal unitsmmBtu/hr~~
~~millionhourkgkilogramkg/MW-hrper megawatt-hourlbpoundlbs/mmtupounds per million btuMgmegagram or metric tonmmBtu million British thermal unitsmmBu/hrmillion British thermal units per hour~~
~~MWe megawatt of electricityMW megawatt of electricityMw megawatt; one million watts~~
~~MW-hr megawatt-hourNATS NOxwattsMW-hrmegawatt-hourNATSNOx Allowance Tracking SystemNOSystemNO2 nitrogen dioxide~~
~~NOx nitrogen oxides~~
~~O2 oxygenpsia poundsdioxideNO2nitrogen oxidesO2oxygenpsiapounds per square inch absolutepeec potentialabsolutepeecpotential electrical output capacity~~
~~PTE potential to emit~~
~~ppm parts per millionppmv parts capacityppmparts per millionppmvparts per million by volume~~
~~T English tonTPY tonsvolumeTEngish tonTPYtons per year~~

b) The following conversion factors have been used in this Part:

English	Metric					
English	Metric	2.205 lb	1 kg	1 T	0.907 Mg	1 lb/T 0.500 kg/Mg
Mmbtu/hr	0.293 MW	1 lb/mmBtu	mmBtu	1.548 kg/MW-hr	1 mmBtu/hr	0.293 MW
1 mmBtu/hr	393 bhp					

(Source: Amended at 31 Ill. Reg. , effective)

Section 217.104 Incorporations by Reference

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions.

a) The phenol disulfonic acid ~~proceduresmethod~~ procedures, as published in 40 CFR 60, Appendix A, Method 7 (2000) ~~(1999)~~;

b) 40 CFR 96, subparts B, D, G, and H (1999);

c) 40 CFR ~~§§~~ 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55 (a) & (b), 96.56 and 96.57 (1999);

d) 40 CFR 60, 72, 75 & 76 (2006) ~~(1999)~~;

e) Alternative Control Techniques Document— - NOx Emissions from Cement Manufacturing, EPA-453/R-94-004, U. S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, March 1994;

f) Section 11.6, Portland Cement Manufacturing, AP-42 Compilation of Air Emission Factors, Volume 1: Stationary Point and Area Sources, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, revised January 1995;

g) 40 CFR ~~§~~ 60.13 (2001) ~~(1999)~~; and

h) 40 CFR 60, Appendix A, Methods 3A, 7, 7A, 7C, 7D, ~~and~~ 7E, 19, and 20 (2000) ~~(1999)~~;

i) ASTM D6522-00, Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers (2000);

k) Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK, 60.4400 (2006); and

l) Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources (2000), USEPA.

(Source: Amended at 31 Ill. Reg. , effective)

SUBPART Q: STATIONARY RECIPROCATING
INTERNAL COMBUSTION ENGINES AND TURBINES

Section 217.386 Applicability

a) A stationary reciprocating internal combustion engine or turbine that meets the criteria in subsection (a)(1) or (a)(2) of this Section is an affected unit and is subject to the requirements of this Subpart Q.

1) The engine at nameplate capacity is rated at equal to or greater than 500 bhp output; or

2) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp) output at 14.7 psia, 59oF, and 60 percent relative humidity.

b) Notwithstanding subsection (a) of this Section, an engine or turbine will not be an affected unit and is not subject to the requirements of this Subpart Q, if the engine or turbine is or has:

1) Used as an emergency or standby unit as defined by 35 Ill. Adm. Code 211.1920;

- 2) Used for research or for the purposes of performance verification or testing;
 - 3) Used to control emissions from landfills, where at least 50 percent of the heat input is gas collected from a landfill;
 - 4) Used for agricultural purposes including the raising of crops or livestock that are produced on site, but not associated businesses like packing operations, sale of equipment or repair;
 - 5) A nameplate capacity rated at less than 1500 bhp (1118 kW) output, mounted on a chassis or skids, designed to be moveable, and moved to a different source at least once every 12 months; or
 - 6) Regulated under Subpart W or a subsequent federal NOx Trading program for electrical generating units.
- c) If an exempt unit ceases to fulfill the criteria specified in subsection (b) of this Section, the owner or operator must notify the Agency in writing within 30 days after becoming aware that the exemption no longer applies and comply with the control requirements of this Subpart Q.
- d) The requirements of this Subpart Q will continue to apply to any engine or turbine that has ever been subject to the control requirements of Section 217.388, even if the affected unit ceases to fulfill the rating requirements of subsection (a) of this Section or becomes eligible for an exemption pursuant to subsection (b) of this Section.

(Source: Added at 31 Ill. Reg. _____, effective _____.)

Section 217.388 Control and Maintenance Requirements

On and after the applicable compliance date in Section 217.392, an owner or operator of an affected unit must inspect and maintain affected units as required by subsection (d) of this Section and comply with either the applicable emissions concentration as set forth in subsection (a) of this Section, or the requirements for an emissions averaging plan as specified in subsection (b) of this Section or the requirements for operation as a low usage unit as specified in subsection (c) of this Section.

a) The owner or operator must limit the discharge from an affected unit into the atmosphere of any gases that contain NOx to no more than:

1) 150 ppmv (corrected to 15 percent O2 on a dry basis) for spark-ignited rich-burn engines;

2) 210 ppmv (corrected to 15 percent O2 on a dry basis) for spark-ignited lean-burn engines, except for existing spark-ignited Worthington engines that are not listed in Appendix G;

3) 365 ppmv (corrected to 15 percent O2 on a dry basis) for existing spark-ignited Worthington engines that are not listed in Appendix G;

4) 660 ppmv (corrected to 15 percent O2 on a dry basis) for diesel engines;

5) 42 ppmv (corrected to 15 percent O₂ on a dry basis) for gaseous fuel-fired turbines; and

6) 96 ppmv (corrected to 15 percent O₂ on a dry basis) for liquid fuel-fired turbines.

b) The owner or operator must comply with the requirements of the applicable emissions averaging plan as set forth in Section 217.390.

c) The owner or operator must operate the affected unit as a low usage unit pursuant to subsection (c)(1) or (c)(2) of this Section. Low usage units are not subject to the requirements of this Subpart Q except for the requirements to inspect and maintain the unit pursuant to subsection (d) of this Section, and retain records pursuant to Sections 217.396(b) and (c). Only one of the following exemptions may be utilized at a particular source:

1) The potential to emit (PTE) is no more than 100 TPY NO_x aggregated from all engines and turbines located at the source that are not otherwise exempt pursuant to Section 217.386(b), and not complying with the requirements of subsection (a) or (b) of this Section and the NO_x PTE limit is contained in a federally enforceable permit; or

2) The aggregate bhp-hr/MW-hr from all affected units located at the source that are not exempt pursuant to Section 217.386(b), and not complying with the requirements of subsection (a) or (b) of this Section, are less than or equal to the bhp-hrs and MW-hrs operation limit listed in subsection (c)(2)(A) and (c)(2)(B) of this Section. For units not located at a natural gas transmission compressor station or storage facility that drive a natural gas compressor station, the operation limits of subsections (c)(2)(A) and (B) of this Section must be contained in a federally enforceable permit.

A) 8 mm bhp-hrs or less on an annual basis for engines; and

B) 20,000 MW-hrs or less on an annual basis for turbines.

d) The owner or operator must inspect and perform periodic maintenance on the affected unit, in accordance with a Maintenance Plan that documents:

1) For a unit not located at natural gas transmission compressor station or storage facility either:

A) The manufacturer's recommended inspection and maintenance of the applicable air pollution control equipment, monitoring device, and affected unit; or

B) If the original equipment manual is not available or substantial modifications have been made that require an alternative procedure for the applicable air pollution control device, monitoring device, or affected unit, the owner or operator must establish a plan for inspection and maintenance in accordance with what is customary for the type of air pollution control equipment, monitoring device, and affected unit.

2) For a unit located at a natural gas compressor station or storage facility, the operator's maintenance procedures for the applicable air pollution control device, monitoring device, and affected unit.

(Source: Added at 31 Ill. Reg. _____, effective _____.)

Section 217.390 Emissions Averaging Plans

a) An owner or operator of certain affected units may comply through an emissions averaging plan.

1) The unit or units that commenced operation before January 1, 2002, may be included in an emissions averaging plan as follows:

A) Units located at a single source or at multiple sources in Illinois, so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations. A unit may be listed in only one emissions averaging plan;

B) Units that have a compliance date later than the control period for which the averaging plan is being used for compliance; and

C) Units which the owner or operator may claim as exempt pursuant to Section 217.386(b) but does not claim exempt. For as long as such a unit is included in an emissions averaging plan, it will be treated as an affected unit and subject to the applicable emission concentration limits, testing, monitoring, recordkeeping and reporting requirements.

2) The following types of units may not be included in an emissions averaging plan:

A) Units that commence operation after January 1, 2002, unless the unit replaces an engine or turbine that commenced operation on or before January 1, 2002, or it replaces an engine or turbine that replaced a unit that commenced operation on or before January 1, 2002. The new unit must be used for the same purpose as the replacement unit. The owner or operator of a unit that is shutdown and replaced must comply with the provisions of Section 217.396(d)(3) before the replacement unit may be included in an emissions averaging plan.

B) Units which the owner or operator is claiming are exempt pursuant to Section 217.386(b) or as a low usage unit pursuant to Section 217.388(c).

b) An owner or operator must submit an emissions averaging plan to the Agency by the applicable compliance date set forth in Section 217.392. The plan must include, but is not limited to:

1) The list of affected units included in the plan by unit identification number and permit number.

2) A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for both the ozone season and calendar year.

c) An owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must be submitted to the Agency by May 1 of the applicable calendar year. If an amended plan is not received by the Agency by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.

d) Notwithstanding subsection (c) of this Section, an owner or operator, and the buyer, if applicable:

1) Must submit an updated emissions averaging plan or plans to the Agency within 60 days, if a unit that is listed in an emissions averaging plan is sold or taken out of service.

2) May amend its emissions averaging plan to include another unit within 30 days of discovering that the unit no longer qualifies as an exempt unit pursuant to Section 217.386(b) or as a low usage unit pursuant to Section 217.388(c).

e) An owner or operator must:

1) Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section; the higher of the monitoring or test data determined pursuant to Section 217.394; and the actual hours of operation for the applicable control period;

2) Notify the Agency by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season; and

3) Submit to the Agency by January 31 following each calendar year, a compliance report containing the information required by Section 217.396(d) (4).

f) The total mass of actual NOx emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NOx emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

~~Nact~~ ~~=~~ ~~NallWhere~~ ~~=~~ ~~NallWhere~~:
$$Nact = \frac{\text{Total sum of the actual NOx mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year)}}{\text{Total sum of the allowable NOx mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year)}}$$
$$EMall(i) = \frac{\text{Total mass of allowable NOx emissions in lbs for a unit as determined in subsection (g) (2), (g) (3), (g) (4), (g) (5), or (g) (6) of this Section.}}{\text{Total mass of actual NOx emissions in lbs for a unit as determined in subsection (g) (1), (g) (3), (g) (5) or (h) of this Section.}}$$
$$i = \text{Subscript denoting an individual unit and fuel used.}$$
$$n = \text{Number of different units in the averaging plan.}$$

g) For each unit in the averaging plan, and each fuel used by a unit, determine actual and allowable NOx emissions using the following equations, except as provided for in subsection (h) of this Section:

1) Actual emissions must be determined as follows:

$$EMact(i) = Eact(i) \times Hi$$

2) Allowable emissions must be determined as follows:

$$EMall(i) = Eall(i) \times Hi$$

Where:

$EM_{act}(i)$ = Total mass of actual NOx emissions in lbs for a unit.
 $EM_{all}(i)$ = Total mass of allowable NOx emissions in lbs for a unit.
 E_{act} = Actual NOx emission rate (lbs/mmBtu) ~~calculated according to~~ ~~the above equation.~~
 E_{all} = Allowable NOx emission rate (lbs/mmBtu) calculated according to the above equation.
 H = Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.
 $Cd(Act)$ = Actual concentration of NOx in lb/dscf (ppmv x 1.194 x 10⁻⁷) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test run or monitoring pass performed pursuant to Section 217.394, whichever is higher.
 $Cd(all)$ = Allowable concentration of NOx in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(6) of this Section, if applicable).
 Fd = The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of Factors included in 40 CFR 60, Appendix A, Method 19 or as determined using 40 CFR 60, Appendix A, Method 19.
 $\%O_2d$ = Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable test or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O₂d, 18.7 would be used.
 i = Subscript denoting an individual unit and the fuel used.
 j = Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.
 m = The number of test runs or monitoring passes for an affected unit using a given fuel.

3) For a replacement unit that is electric-powered, the allowable NOx emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NOx emissions for the electric-powered replacement unit ($EM(i)_{act\ elec}$) are zero. Allowable NOx emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit on an ozone season and on an annual basis multiplied by the allowable NOx emission rate in lb/bhp-hr of the replaced unit.

The allowable mass of NOx emissions from an electric-powered replacement unit ($EM(i)_{all\ elec}$) must be determined by multiplying the nameplate capacity of the unit by the hours operated during the ozone season or annually and the allowable NOx emission rate of the replaced unit ($E_{all\ rep}$) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

$EM_{all\ elec}(i) = bhp \times OP \times F \times E_{all\ rep}(i)$ Where:
 $EM_{all\ elec}(i)$ = Mass of allowable NOx emissions from the electric-powered replacement unit in pounds per ozone season or calendar year.
 bhp = Nameplate capacity of the electric-powered replacement unit in brake-horsepower.
 OP = Operating hours during the ozone season or calendar year.
 F = Conversion factor of 0.0077 mmBtu/bhp-hr.
 $E_{all\ rep}(i)$ = Allowable NOx emission rate (lbs/mmBtu) of the replaced unit.
 i = Subscript denoting an individual electric unit and the fuel used.

4) For a replacement unit that is not electric, the allowable NOx emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be either:

A) Prior to the applicable compliance date for the replaced unit pursuant to Section 217.392, the higher of the actual NOx emissions as determined by testing or monitoring data or the applicable uncontrolled NOx emissions factor from Compilation of Air pollutant emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104 for the unit that was replaced; or

B) On and after the applicable compliance date for the replaced unit pursuant to Section 217.392, the applicable emissions concentration for the type of unit that replaced pursuant to Section 217.388(a).

5) For a unit that is replaced with purchased power, the allowable NOx emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be the emissions concentration as set forth in Section 217.388(a) or subsection (g)(6) of this Section, when applicable, for the type of unit that was replaced. For owners or operators replacing units with purchased power, the annual hours of operations that must be used are the calendar year hours of operation for the unit that was shutdown averaged over the three-year period prior to the shutdown. The actual NOx emissions for the units replaced by purchased power (EM(i)act) are zero. These units may be included in any emissions averaging plan for no more than five years beginning with the calendar year that the replaced unit is shut down.

6) For units that have a later compliance date, allowable emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be:

A) Prior to the applicable compliance date pursuant to Section 217.392, the higher of the actual NOx emissions as determined by testing or monitoring data, or the applicable uncontrolled NOx emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Areas Sources, as incorporated by reference in Section 217.104; and

B) On and after the units applicable compliance date pursuant to Section 217.392, the applicable emissions concentration for that type of unit pursuant to Section 217.388(a).

h) For units that use CEMS the data must show that the total mass of actual NOx emissions determined pursuant to subsection (h)(1) of this Section is less than or equal to the allowable NOx emissions calculated in accordance with the equations in subsections (f) and (h)(2) of this Section for both the ozone season and calendar year. The equations in subsection (g) of this Section will not apply.

1) The total mass of actual NOx emissions in lbs for a unit (EMact) must be the sum of the total mass of actual NOx emissions from each affected unit using CEMS data collected in accordance with 40 CFR 60 or 75, or alternate methodology that has been approved by the Agency or USEPA and included in a federally enforceable permit.

2) The allowable NOx emissions must be determined as follows:

Where:

EMall(i) = $\frac{\text{Total mass of allowable NOx emissions in lbs}}{\text{Flow}_i = \text{Stack flow (dscf/hr) for a given}}$
for a unit.

stack.Cdi = Allowable concentration of NOx (ppmv) specified in Section 217.388(a) of this subpart for a given stack. (1.194 x 10⁻⁷) converts to lb/dscf).j = subscript denoting each hour operation of a given unit.m = Total number of hours of operation of a unit.i = Subscript denoting an individual unit and the fuel used.

(Source: Added at 31 Ill. Reg. _____, effective _____.)

Section 217.392 Compliance

a) An owner or operator of an affected unit may not operate that unit unless it meets the applicable concentration limit in Section 217.388(a), or is included in an emissions averaging plan pursuant to Section 217.388(b), or meets the low usage requirements pursuant to Section 217.388(c), and complies with all other applicable requirements of this Subpart Q by the earliest applicable date listed below:

1) On and after May 1, 2007, an owner or operator of an affected engine listed in Appendix G may not operate the affected engine unless the requirements of this Subpart Q are met or the affected engine is exempt pursuant to Section 217.386(b);

2) On and after January 1, 2009, an owner or operator of an affected unit and that is located in Cook, DuPage, Aux Sable Township and Goose Lake Township in Grundy, Kane, Oswego Township in Kendall, Lake, McHenry, Will, Jersey, Madison, Monroe, Randolph Township in Randolph, or St. Clair County, and is not listed in Appendix G may not operate the affected unit unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b);

3) On and after January 1, 2011, an owner or operator of an affected engine with a nameplate capacity rated at 1500 bhp or more, and affected turbines rated at 5 MW (6,702 bhp) or more that is not subject to subsection (a)(1) or (a)(2) of this Section, may not operate the affected unit unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b); or

4) On and after January 1, 2012, an owner or operator of an affected engine with a nameplate capacity rated at less than 1500 bhp or an affected turbine rated at less than 5 MW (6,702 bhp) that is not subject to subsection (a)(1), (a)(2) or (a)(3) of this Section, may not operate the affected engine or turbine unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b).

b) Owners and operators of an affected unit may use NOx allowances to meet the compliance requirements in Section 217.388 as specified below. A NOx allowance is defined as an allowance used to meet the requirements of a NOx trading program administered by USEPA where one allowance is equal to one ton of NOx emissions.

1) NOx allowances may only be used under the following circumstances:

A) An anomalous or unforeseen operating scenario inconsistent with historical operations for a particular ozone season or calendar year that causes an emissions exceedance.

B) To achieve compliance no more than twice in any rolling five-year period.

C) For a unit that is not listed in Appendix G.

2) The owner or operator of the affected unit must surrender to the Agency one NOx allowance for each ton or portion of a ton of NOx by which actual emissions exceed allowed emissions. For noncompliance with a seasonal limit, a NOx ozone season allowance must be used. For noncompliance with the emissions concentration limits in Section 217.388(a) or an annual limitation in an emissions averaging plan, only a NOx annual allowance may be used.

3) The owner or operator must submit a report documenting the circumstances that required the use of NOx allowances and identify what actions will be taken in subsequent years to address these circumstances and must transfer the NOx allowances to the Agency's federal NOx retirement account. The report and the transfer of allowances must be submitted by October 31 for exceedances during the ozone season and March 1 for exceedances of the emissions concentration or the annual emission averaging plan limits. The report must contain the NATS serial numbers of the NOx allowances.

(Source: Added at 31 Ill. Reg. _____, effective _____.)

Section 217.394 Testing and Monitoring

a) An owner or operator of an engine or turbine must conduct an initial performance test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:

1) By May 1, 2007, for affected engines listed in Appendix G. Performance tests must be conducted on units listed in Appendix G, even if the unit is included in an emissions averaging plan pursuant to Section 217.388(b).

2) By the applicable compliance date as set forth in Section 217.392, or within the first 876 hours of operation per calendar year, whichever is later:

A) For affected units not listed in Appendix G that operate more than 876 hours per calendar year; and

B) For units that are not affected units that are included in an emissions averaging plan and operate more than 876 hours per calendar year.

3) Once within the five-year period after the applicable compliance date as set forth in Section 217.392:

A) For affected units that operate fewer than 876 hours per calendar year; and

B) For units that are not affected units that are included in an emissions averaging plan and that operate fewer than 876 hours per calendar year

b) An owner or operator of an engine or turbine must conduct subsequent performance tests pursuant to subsection (c)(1) or (c)(2) of this Section as follows:

1) For affected engines listed in Appendix G and all units included in an emissions averaging plan, once every five years. Testing must be performed in the calendar year by May 1 or within 60 days of starting operation, whichever is later;

2) If the monitored data shows that the unit is not in compliance with the applicable emissions concentration or emissions averaging plan, the owner or operator must report the deviation to the Agency in writing within 30 days and conduct a performance test pursuant to subsection (c) of this Section within 90 days of the determination of noncompliance; and

3) When in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.388, the owner or operator of a unit must, at his or her own expense, conduct the test in accordance with the applicable test methods and procedures specified in this Section 217.394 within 90 days of receipt of a notice to test from the Agency or USEPA.

c) Testing Procedures:

1) For an engine: The owner or operator must conduct a performance test using Method 7 or 7E of 40 CFR 60, Appendix A, as incorporated by reference in Section 217.104. Each compliance test must consist of three separate runs, each lasting a minimum of 60 minutes. NOx emissions must be measured while the affected unit is operating at peak load. If the unit combusts more than one type of fuel (gaseous or liquid) including backup fuels, a separate performance test is required for each fuel.

2) For a turbine: The owner operator must conduct a performance test using the applicable procedures and methods in 40 CFR 60.4400, as incorporated by reference in Section 217.104.

d) Monitoring: Except for those years in which a performance test is conducted pursuant to subsection (a) or (b) of this Section, the owner or operator of an affected unit or a unit included in an emissions averaging plan must monitor NOx concentrations annually, once between January 1 and May 1 or within the first 876 hours of operation per calendar year, whichever is later. If annual operation is less than 876 hours per calendar year, each affected unit must be monitored at least once every five years. Monitoring must be performed as follows:

1) A portable NOx monitor and utilizing method ASTM D6522-00, as incorporated by reference in Section 217.104, or a method approved by the Agency must be used. If the engine or turbine combusts both liquid or gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.

2) NOx and O2 concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan as specified in Section 217.388.

e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of this Section, an owner or operator may install and operate a CEMS on an affected unit that meets the applicable requirements of 40 CFR 60, subpart A, and Appendix B, incorporated by reference in Section 217.104, and complies with the quality assurance procedures specified in 40 CFR 60, Appendix F, or 40 CFR 75 as incorporated by reference in Section 217.104, or an alternate procedure as approved by the Agency or USEPA in a federally enforceable permit. The CEMS must be used to demonstrate compliance with the applicable emissions

concentration or emissions averaging plan only on an ozone season and annual basis.

(Source: Added at 31 Ill. Reg. _____, effective _____.)

Section 217.396 Recordkeeping and Reporting

a) Recordkeeping. The owner or operator of a unit included in an emissions averaging plan or an affected unit that is not exempt pursuant to Section 217.386(b) and is not subject to the low usage exemption of Section 217.388(c) must maintain records that demonstrate compliance with the requirements of this Subpart Q which include, but are not limited to:

1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.

2) Calendar date of the record.

3) The number of hours the unit operated on a monthly basis, and during each ozone season.

4) Type and quantity of the fuel used on a daily basis.

5) The results of all monitoring performed on the unit and reported deviations.

6) The results of all tests performed on the unit.

7) The plan for performing inspection and maintenance of the units, air pollution control equipment, and the applicable monitoring device pursuant to Section 217.388(d).

8) A log of inspections and maintenance performed on the unit's air emissions, monitoring device, and air pollution control device. These records must include, at a minimum, date, load levels and any manual adjustments along with the reason for the adjustment (e.g., air to fuel ratio, timing or other settings).

9) If complying with the emissions averaging plan provisions of Sections 217.388(b) and 217.390 copies of the calculations used to demonstrate compliance with the ozone season and annual control period limits, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the Agency.

10) Identification of time periods for which operating conditions and pollutant data were not obtained by either the CEMS or alternate monitoring procedures including the reasons for not obtaining sufficient data and a description of corrective actions taken.

11) Any NOx allowance reconciliation reports submitted pursuant to Section 217.392(e).

b) The owner or operator of an affected unit that is complying with the low usage provisions of Section 217.388(c), must:

1) For each unit complying with Section 217.388(c)(1), maintain a record of the NOx emissions for each calendar year; or

2) For each unit complying with Section 217.388(c)(2), maintain a record of bhp or MW hours operated each calendar year.

c) The owner or operator of an affected unit or unit included in an emissions averaging plan must maintain the records required by subsections (a) and (b) of this Section for a period of five-years at the source at which the unit is located. The records must be made available to the Agency and USEPA upon request.

d) Reporting requirements:

1) The owner or operator must notify the Agency in writing 30 days and five days prior to testing pursuant to Section 217.394(a) and:

A) If after the 30-days notice for an initially scheduled test is sent, there is a delay (e.g., due to operational problems) in conducting the performance test as scheduled, the owner or operator of the unit must notify the Agency as soon as possible of the delay in the original test date, either by providing at least seven days prior notice of the rescheduled date of the performance test, or by arranging a new test date with the Agency by mutual agreement;

B) Provide a testing protocol to the Agency 60 days prior to testing; and

C) Not later than 30 days after the completion of the test, submit the results of the test to the Agency.

2) Pursuant to the requirements for monitoring in Section 217.394(d), the owner or operator of the unit must report to the Agency any monitored exceedances of the applicable NOx concentration from Section 217.388(a) or (b) within 30 days of performing the monitoring.

3) Within 90 days of permanently shutting down an affected unit or a unit included in an emissions averaging plan, the owner or operator of the unit must withdraw or amend the applicable permit to reflect that the unit is no longer in service.

4) If demonstrating compliance through an emissions averaging plan:

A) By October 31 following the applicable ozone season, the owner or operator must notify the Agency if he or she cannot demonstrate compliance for that ozone season; and

B) By January 30 following the applicable calendar year, the owner or operator must submit to the Agency a report that demonstrates the following:

i) For all units that are part of the emissions averaging plan, the total mass of allowable NOx emissions for the ozone season and for the annual control period;

ii) The total mass of actual NOx emissions for the ozone season and annual control period for each unit included in the averaging plan;

iii) The calculations that demonstrate that the total mass of actual NOx emissions are less than the total mass of allowable NOx emissions using equations in Sections 217.390(f) and (g); and

iv) The information required to determine the total mass of actual NOx emissions and the calculations performed in subsection (d)(4)(B)(iii) of this Section.

5) If operating a CEMS, the owner or operator must submit an excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and 60.13, or 40 CFR 75 incorporated by reference in Section 217.104, or an alternate procedure approved by the Agency or USEPA and included in a federally enforceable permit.

6) If using NOx allowances to comply with the requirements of Section 217.388, reconciliation reports as required by Section 217.392(b)(3).

(Source: Added at 31 Ill. Reg. _____, effective _____.)

~~Appendix~~ APPENDIX G- Existing Reciprocating Internal Combustion Engines Affected by NOx SIP Call

Plant ID Point ID Segment

ANR Pipeline Co. - Sandwich 093802AAFE-1081 Natural Gas Pipeline Co. of America
8310027807AAC7301035400411 Natural Gas Pipeline Co. of America Sta
110073816AAA8510001400111073816AAA8510001400122073816AAA8510001400133073816AAA85
10001400144073816AAA8510001400411073816AAA8510001400511 Northern Illinois Gas Co.
- Stor Stat
359113817AAA7301054400211113817AAA7301054400311113821AAA7301054300211113821AAA73
01054300511 Panhandle Eastern Pipe Line Co.-
Glenarm 167801AAA870900380021167801AAA870900380041167801AAA870900380051 Panhandle
Eastern Pipeline - Tuscola
St 041804AAC730105730099041804AAC7301057301010041804AAC7301057301111041804AAC7301
057301212041804AAC7301057301212041804AAC7301057301313 Panhandle Eastern Pipeline
Co. 149820AAB7301057199G3149820AAB7301057199I1149820AAB7301057199J1149820AAB73010
57199K1 Panhandle Eastern Pipeline Co.-Glenarm 167801AAA870900380011 Phoenix
Chemical Co. 085809AAA7307003301011085809AAA7307003301022085809AAA7307003301033
(Source: Added at 31 Ill. Reg. _____, effective _____.)

JCAR3118350217P

~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENT~~

Document comparison done by DeltaView on Thursday, April 26, 2007 1:37:21 PM

Input:	
Document 1	file:///I:/Input/35-217-Agency(issue18).DOC
Document 2	file:///I:/Input/35-217-JCAR(issue 18).doc
Rendering set	Standard

Legend:	
<u>Insertion</u>	
Deletion	
Moved from	
<u>Moved to</u>	
Style change	
Format change	
Moved deletion	
Inserted cell	
Deleted cell	
Moved cell	
Split/Merged cell	
Padding cell	

Statistics:	
	Count
Insertions	40
Deletions	108
Moved from	0
Moved to	0
Style change	0
Format changed	0
Total changes	148

1 TITLE 35: ENVIRONMENTAL PROTECTION
2 SUBTITLE B: AIR POLLUTION
3 CHAPTER I: POLLUTION CONTROL BOARD
4 SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
5 FOR STATIONARY SOURCES
6

7 PART 217
8 NITROGEN OXIDES EMISSIONS
9

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14	217.101	Measurement Methods
15	217.102	Abbreviations and Units
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17	217.104	Incorporations by Reference

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54	217.402	Control Requirements
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56	217.406	Monitoring
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58	217.410	Recordkeeping

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60 SUBPART U: NO_x CONTROL AND TRADING PROGRAM FOR
61 SPECIFIED NO_x GENERATING UNITS

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64	217.452	Severability
65	217.454	Applicability
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69	217.462	Methodology for Obtaining NO _x Allocations
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84	217.521	Lake of Egypt Power Plant
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103	217.762	Methodology for Calculating NO _x Allocations for Budget Electrical Generating
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105	217.764	NO _x Allocations for Budget EGUs
106	217.768	New Source Set-Asides for "New" Budget EGUs
107	217.770	Early Reduction Credits for Budget EGUs
108	217.774	Opt-In Units
109	217.776	Opt-In Process
110	217.778	Budget Opt-In Units: Withdrawal from NO _x Trading Program
111	217.780	Opt-In Units: Change in Regulatory Status
112	217.782	Allowance Allocations to Budget Opt-In Units
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114		SUBPART X: VOLUNTARY NO _x EMISSIONS REDUCTION PROGRAM
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116	Section	
117	217.800	Purpose
118	217.805	Emission Unit Eligibility
119	217.810	Participation Requirements
120	217.815	NO _x Emission Reductions and the Subpart X NO _x Trading Budget
121	217.820	Baseline Emissions Determination
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123	217.830	Limitations on NO _x Emission Reductions
124	217.835	NO _x Emission Reduction Proposal
125	217.840	Agency Action
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129	217.860	Recordkeeping

130 217.865 Enforcement
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 132 217.APPENDIX A Rule into Section Table
 133 217.APPENDIX B Section into Rule Table
 134 217.APPENDIX C Compliance Dates
 135 217.APPENDIX D Non-Electrical Generating Units
 136 217.APPENDIX E Large Non-Electrical Generating Units
 137 217.APPENDIX F Allowances for Electrical Generating Units
 138 217.APPENDIX G Existing Reciprocating Internal Combustion Engines Affected by the NO_x
 139 SIP Call
 140

141 AUTHORITY: Implementing Sections 9.9 and 10 and authorized by Sections 27 and 28.5 of the
 142 Environmental Protection Act [415 ILCS 5/9.9, 10, 27 and 28.5 (2004)].
 143

144 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23,
 145 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101,
 146 effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128,
 147 effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001;
 148 amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-
 149 18 at 31 Ill. Reg. _____, effective _____.

150
 151 SUBPART A: GENERAL PROVISIONS
 152

153 **Section 217.101 Measurement Methods**
 154

155 Measurement of nitrogen oxides shall be according to:
 156

- 157 a) The phenol disulfonic acid ~~proceduresmethod~~, 40 CFR 60, Appendix A, Method
 158 7, ~~as incorporated by reference in Section 217.104(1999)~~;
- 159 b) Continuous emissions monitoring pursuant to 40 CFR 75, ~~as incorporated by~~
 160 ~~reference in Section 217.104(1999)~~; and
- 161 c) Determination of Nitrogen Oxides Emissions from Stationary Sources
 162 (Instrumental Analyzer Procedure), 40 CFR 60, Appendix A, Method 7E, ~~as~~
 163 ~~incorporated by reference in Section 217.104;(1999)~~.
- 164 d) Monitoring with portable monitors pursuant to ASTM D6522-00, as incorporated
 165 by reference in Section 217.104; and
- 166 e) How do I conduct the initial and subsequent performance tests (for turbines),
 167 regarding NO_x pursuant to 40 CFR 60.4400, as incorporated by reference in
 168 Section 217.104.
 169
 170
 171
 172

173
174
175
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178
179

(Source: Amended at 31 Ill. Reg. _____, effective _____)

Section 217.102 Abbreviations and Units

a) The following abbreviations are used in this Part:

<u>ASTM</u>	<u>American Society for Testing and Materials</u>
<u>Btu</u> btu	British thermal unit (60°F)
<u>bhp</u>	<u>brake horsepower</u>
<u>CEMS</u>	<u>continuous emissions monitoring system</u>
EGU	Electrical Generating Unit
<u>dscf</u>	<u>dry standard cubic feet</u>
<u>g/bhp-hr</u>	<u>grams per brake horsepower-hour</u>
kg	kilogram
kg/MW-hr	kilograms per megawatt-hour, usually used as an hourly emission rate
lb	pound
<u>NO_x</u>	<u>Nitrogen Oxides</u>
<u>lbs/mmBtu</u>	<u>pounds per million Btu</u> btu, usually used as an hourly emission rate
lbs/mmbtu	rate
Mg	megagram or metric ton <u>tonne</u>
<u>mm</u>	<u>million</u>
<u>mmBtu</u>	million British thermal units
mmbtu	
<u>mmBtu/hr</u>	million British thermal units per hour
mmbtu/hr	
MWe	megawatt of electricity
MW	megawatt; one million watts
MW-hr	megawatt-hour
<u>NATS</u>	<u>NO_x Allowance Tracking System</u>
<u>NO₂</u>	<u>nitrogen dioxide</u>
<u>NO_x</u>	<u>nitrogen oxides</u>
<u>O₂</u>	<u>oxygen</u>
<u>psia</u>	<u>pounds per square inch absolute</u>
peoc	potential electrical output capacity
<u>PTE</u>	<u>potential to emit</u>
ppm	parts per million
ppmv	parts per million by volume
T	English ton
<u>TPY</u>	<u>tons per year</u>

180
181

b) The following conversion factors have been used in this Part:

182

English	Metric
2.205 lb	1 kg
1 T	0.907 Mg
1 lb/T	0.500 kg/Mg
Mmbtu/hr	0.293 MW
1 lb/mmBtu	1.548 kg/MW-hr
mmbtu	
<u>1 mmBtu/hr</u>	<u>0.293 MW</u>
<u>1 mmBtu/hr</u>	<u>393 bhp</u>

183

(Source: Amended at 31 Ill. Reg. _____, effective _____)

184

185

Section 217.104 Incorporations by Reference

187

The following materials are incorporated by reference. These incorporations do not include any later amendments or editions.

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- a) The phenol disulfonic acid ~~procedures~~method, as published in 40 CFR 60, ~~appendix Appendix-A~~, Method 7 ~~(2000)~~(1999);
- b) 40 CFR 96, subparts B, D, G, and H (1999);
- c) 40 CFR 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55(a) & (b), 96.56 and 96.57 (1999);
- d) 40 CFR ~~60~~, 72, 75 & 76 ~~(2006)~~(1999);
- e) Alternative Control Techniques Document – NO_x Emissions from Cement Manufacturing, EPA-453/R94-004, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, March 1994;
- f) Section 11.6, Portland Cement Manufacturing, AP-42 Compilation of Air Emission Factors, Volume 1: Stationary Point and Area Sources, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, revised January 1995;
- g) 40 CFR 60.13 ~~(2001)~~(1999); and
- h) 40 CFR 60, Appendix A, Methods ~~3A~~, 7, 7A, 7C, 7D, ~~and 7E~~, 19, and 20 ~~(2000)~~(1999);

- 216 i) ASTM D6522-00, Standard Test Method for Determination of Nitrogen Oxides,
217 Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-
218 Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters
219 Using Portable Analyzers (2000);
220
- 221 k) Standards of Performance for Stationary Combustion Turbines, 40 CFR 60,
222 subpart KKKK, 60.4400 (2006); and
223
- 224 l) Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary
225 Point and Area Sources (2000), USEPA.
226

227 (Source: Amended at 31 Ill. Reg. _____, effective _____)
228

229 SUBPART Q: STATIONARY RECIPROCATING
230 INTERNAL COMBUSTION ENGINES AND TURBINES
231

232 **Section 217.386 Applicability**
233

- 234 a) A stationary reciprocating internal combustion engine or turbine that meets the
235 criteria in subsection (a)(1) or (a)(2) of this Section is an affected unit and is
236 subject to the requirements of this Subpart Q.
237
 - 238 1) The engine at nameplate capacity is rated at equal to or greater than 500
239 bhp output; or
 - 240
 - 241 2) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp) output
242 at 14.7 psia, 59°F, and 60 percent relative humidity.
243
- 244 b) Notwithstanding subsection (a) of this Section, an engine or turbine will not be an
245 affected unit and is not subject to the requirements of this Subpart Q if the engine
246 or turbine is or has:
247
 - 248 1) Been used as an emergency or standby unit as defined by 35 Ill. Adm.
249 Code 211.1920;
250
 - 251 2) Been used for research or for the purposes of performance verification or
252 testing;
253
 - 254 3) Been used to control emissions from landfills, where at least 50 percent of
255 the heat input is gas collected from a landfill;
256

- 257 4) Been used for agricultural purposes, including the raising of crops or
 258 livestock that are produced on site, but not associated businesses like
 259 packing operations, sale of equipment or repair;
 260
 261 5) A nameplate capacity rated at less than 1500 bhp (1118 kW) output,
 262 mounted on a chassis or skids, designed to be moveable, and moved to a
 263 different source at least once every 12 months; or
 264
 265 6) Been regulated under Subpart W or a subsequent federal NO_x Trading
 266 program for electrical generating units.
 267
 268 c) If an exempt unit ceases to fulfill the criteria specified in subsection (b) of this
 269 Section, the owner or operator must notify the Agency in writing within 30 days
 270 after becoming aware that the exemption no longer applies and comply with the
 271 control requirements of this Subpart Q.
 272
 273 d) The requirements of this Subpart Q will continue to apply to any engine or turbine
 274 that has ever been subject to the control requirements of Section 217.388, even if
 275 the affected unit ceases to fulfill the rating requirements of subsection (a) of this
 276 Section or becomes eligible for an exemption pursuant to subsection (b) of this
 277 Section.

278
 279 (Source: Added at 31 Ill. Reg. _____, effective _____)
 280

281 **Section 217.388 Control and Maintenance Requirements**
 282

283 On and after the applicable compliance date in Section 217.392, an owner or operator of an
 284 affected unit must inspect and maintain affected units as required by subsection (d) of this
 285 Section and comply with either the applicable emissions concentration as set forth in subsection
 286 (a) of this Section, or the requirements for an emissions averaging plan as specified in subsection
 287 (b) of this Section or the requirements for operation as a low usage unit as specified in subsection
 288 (c) of this Section.
 289

- 290 a) The owner or operator must limit the discharge from an affected unit into the
 291 atmosphere of any gases that contain NO_x to no more than:
 292
 293 1) 150 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited
 294 rich-burn engines;
 295
 296 2) 210 ppmv (corrected to 15 percent O₂ on a dry basis) for spark-ignited
 297 lean-burn engines, except for existing spark-ignited Worthington engines
 298 that are not listed in Appendix G;
 299

- 300 3) 365 ppmv (corrected to 15 percent O₂ on a dry basis) for existing spark-
 301 ignited Worthington engines that are not listed in Appendix G;
 302
 303 4) 660 ppmv (corrected to 15 percent O₂ on a dry basis) for diesel engines;
 304
 305 5) 42 ppmv (corrected to 15 percent O₂ on a dry basis) for gaseous fuel-fired
 306 turbines; and
 307
 308 6) 96 ppmv (corrected to 15 percent O₂ on a dry basis) for liquid fuel-fired
 309 turbines.
 310
 311 b) The owner or operator must comply with the requirements of the applicable
 312 emissions averaging plan as set forth in Section 217.390.
 313
 314 c) The owner or operator must operate the affected unit as a low usage unit pursuant
 315 to subsection (c)(1) or (c)(2) of this Section. Low usage units are not subject to
 316 the requirements of this Subpart Q except for the requirements to inspect and
 317 maintain the unit pursuant to subsection (d) of this Section, and retain records
 318 pursuant to Section 217.396(b) and (c). Only one of the following exemptions
 319 may be utilized at a particular source:
 320
 321 1) The potential to emit (PTE) is no more than 100 TPY NO_x aggregated
 322 from all engines and turbines located at the source that are not otherwise
 323 exempt pursuant to Section 217.386(b), and not complying with the
 324 requirements of subsection (a) or (b) of this Section and the NO_x PTE
 325 limit is contained in a federally enforceable permit; or
 326
 327 2) The aggregate bhp-hr/MW-hr from all affected units located at the source
 328 that are not exempt pursuant to Section 217.386(b), and not complying
 329 with the requirements of subsection (a) or (b) of this Section, are less than
 330 or equal to the bhp-hrs and MW-hrs operation limit listed in subsections
 331 (c)(2)(A) and (B) of this Section. For units not located at a natural gas
 332 transmission compressor station or storage facility that drive a natural gas
 333 compressor station, the operation limits of subsections (c)(2)(A) and (B)
 334 of this Section must be contained in a federally enforceable permit.
 335
 336 A) 8 mm bhp-hrs or less on an annual basis for engines; and
 337
 338 B) 20,000 MW-hrs or less on an annual basis for turbines.
 339
 340 d) The owner or operator must inspect and perform periodic maintenance on the
 341 affected unit, in accordance with a Maintenance Plan that documents:
 342

- 343 1) For a unit not located at a natural gas transmission compressor station or
344 storage facility, either:
345
346 A) The manufacturer's recommended inspection and maintenance of
347 the applicable air pollution control equipment, monitoring device,
348 and affected unit; or
349
350 B) If the original equipment manual is not available or substantial
351 modifications have been made that require an alternative procedure
352 for the applicable air pollution control device, monitoring device,
353 or affected unit, the owner or operator must establish a plan for
354 inspection and maintenance in accordance with what is customary
355 for the type of air pollution control equipment, monitoring device,
356 and affected unit.
357
358 2) For a unit located at a natural gas compressor station or storage facility,
359 the operator's maintenance procedures for the applicable air pollution
360 control device, monitoring device, and affected unit.
361

362 (Source: Added at 31 Ill. Reg. _____, effective _____)
363

364 **Section 217.390 Emissions Averaging Plans**
365

- 366 a) An owner or operator of certain affected units may comply through an emissions
367 averaging plan.
368
369 1) The unit or units that commenced operation before January 1, 2002 may
370 be included in an emissions averaging plan as follows:
371
372 A) Units located at a single source or at multiple sources in Illinois, so
373 long as the units are owned by the same company or parent
374 company where the parent company has working control through
375 stock ownership of its subsidiary corporations. A unit may be
376 listed in only one emissions averaging plan;
377
378 B) Units that have a compliance date later than the control period for
379 which the averaging plan is being used for compliance; and
380
381 C) Units that the owner or operator may claim as exempt pursuant to
382 Section 217.386(b) but does not claim exempt. For as long as such
383 a unit is included in an emissions averaging plan, it will be treated
384 as an affected unit and subject to the applicable emission

385 concentration limits, testing, monitoring, recordkeeping and
 386 reporting requirements.

387
 388 2) The following types of units may not be included in an emissions
 389 averaging plan:

390
 391 A) Units that commence operation after January 1, 2002, unless the
 392 unit replaces an engine or turbine that commenced operation on or
 393 before January 1, 2002, or it replaces an engine or turbine that
 394 replaced a unit that commenced operation on or before January 1,
 395 2002. The new unit must be used for the same purpose as the
 396 replacement unit. The owner or operator of a unit that is shut
 397 down and replaced must comply with the provisions of Section
 398 217.396(d)(3) before the replacement unit may be included in an
 399 emissions averaging plan.

400
 401 B) Units that the owner or operator is claiming are exempt pursuant to
 402 Section 217.386(b) or as a low usage unit pursuant to Section
 403 217.388(c).

404
 405 b) An owner or operator must submit an emissions averaging plan to the Agency by
 406 the applicable compliance date set forth in Section 217.392. The plan must
 407 include, but is not limited to:

408
 409 1) The list of affected units included in the plan by unit identification number
 410 and permit number.

411
 412 2) A sample calculation demonstrating compliance using the methodology
 413 provided in subsection (f) of this Section for both the ozone season and
 414 calendar year.

415
 416 c) An owner or operator may amend an emissions averaging plan only once per
 417 calendar year. An amended plan must be submitted to the Agency by May 1 of
 418 the applicable calendar year. If an amended plan is not received by the Agency
 419 by May 1 of the applicable calendar year, the previous year's plan will be the
 420 applicable emissions averaging plan.

421
 422 d) Notwithstanding subsection (c) of this Section, an owner or operator, and the
 423 buyer, if applicable:

424
 425 1) Must submit an updated emissions averaging plan or plans to the Agency
 426 within 60 days, if a unit that is listed in an emissions averaging plan is sold
 427 or taken out of service.

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2) May amend its emissions averaging plan to include another unit within 30 days after discovering that the unit no longer qualifies as an exempt unit pursuant to Section 217.386(b) or as a low usage unit pursuant to Section 217.388(c).

e) An owner or operator must:

1) Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section; the higher of the monitoring or test data determined pursuant to Section 217.394; and the actual hours of operation for the applicable control period;

2) Notify the Agency by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season; and

3) Submit to the Agency, by January 31 following each calendar year, a compliance report containing the information required by Section 217.396(d)(4).

f) The total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

$$N_{act} \leq N_{all}$$

Where:

$$N_{act} \equiv \sum_{i=1}^n EM_{act(i)}$$

$$N_{all} \equiv \sum_{i=1}^n EM_{all(i)}$$

N_{act} ≡ Total sum of the actual NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

N_{all} ≡ Total sum of the allowable NO_x mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

$EM_{all(i)}$ = Total mass of allowable NO_x emissions in lbs for a unit as determined in subsection (g)(2), (g)(3), (g)(4), (g)(5), or (g)(6) of this Section.

$EM_{act(i)}$ = Total mass of actual NO_x emissions in lbs for a unit as determined in subsection (g)(1), (g)(3), (g)(5) or (h) of this Section.

i = Subscript denoting an individual unit and fuel used.

n = Number of different units in the averaging plan.

460
461 g) For each unit in the averaging plan, and each fuel used by a unit, determine actual
462 and allowable NO_x emissions using the following equations, except as provided
463 for in subsection (h) of this Section:
464

465 1) Actual emissions must be determined as follows:
466

$$EM_{act(i)} = E_{act(i)} \times H_i$$

$$E_{act(i)} = \frac{\sum_{j=1}^m C_{d(act(i))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

469 2) Allowable emissions must be determined as follows:
470

$$EM_{all(i)} = E_{all(i)} \times H_i$$

$$E_{all(i)} = \frac{\sum_{j=1}^m C_{d(all(i))} \times F_d \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}} \right)}{m}$$

471
472
473
474
475 Where:
476

$EM_{act(i)}$ = Total mass of actual NO_x emissions in lbs for a unit.

$EM_{all(i)}$ = Total mass of allowable NO_x emissions in lbs for a unit.

E_{act} = Actual NO_x emission rate (lbs/mmBtu) calculated according to the above equation.

E_{all} = Allowable NO_x emission rate (lbs/mmBtu) calculated according to the above equation.

H = Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.

- $C_{d(act)}$ \equiv Actual concentration of NO_x in lb/dscf (ppmv x 1.194 x 10⁻⁷) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test runs or monitoring passes performed pursuant to Section 217.394, whichever is higher.
- $C_{d(all)}$ \equiv Allowable concentration of NO_x in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(6) of this Section, if applicable, multiplied by 1.194 x 10⁻⁷) on a dry basis for the fuel used.
- F_d \equiv The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, appendix A, Method 19 or as determined using 40 CFR 60, appendix A, Method 19.
- $\%O_{2d}$ \equiv Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable tests or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O_{2d}, 18.7 would be used.
- i \equiv Subscript denoting an individual unit and the fuel used.
- j \equiv Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.
- m \equiv The number of test runs or monitoring passes for an affected unit using a given fuel.

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3) Electric-Powered Replacement Unit

- A) For a replacement unit that is electric-powered, the allowable NO_x emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO_x emissions for the electric-powered replacement unit ($EM_{(i)act\ elec}$) are zero. Allowable NO_x emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit on an ozone season and on an annual basis multiplied by the allowable NO_x emission rate in lb/bhp-hr of the replaced unit.
- B) The allowable mass of NO_x emissions from an electric-powered replacement unit ($EM_{(i)all\ elec}$) must be determined by multiplying the nameplate capacity of the unit by the hours operated during the ozone season or annually and the allowable NO_x emission rate of the replaced unit ($E_{all\ rep}$) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

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499
500

$$EM_{\text{all elec}(i)} = \text{bhp} \times F \times E_{\text{all rep}(i)}$$

Where:

- $EM_{\text{all elec}(i)}$ \equiv Mass of allowable NO_x emissions from the electric-powered replacement unit in pounds per ozone season or calendar year.
- bhp \equiv Nameplate capacity of the electric-powered replacement unit in brake horsepower.
- OP \equiv Operating hours during the ozone season or calendar year.
- F \equiv Conversion factor of 0.0077 mmBtu/bhp-hr.
- $E_{\text{all rep}(i)}$ \equiv Allowable NO_x emission rate (lbs/mmBtu) of the replaced unit.
- i \equiv Subscript denoting an individual electric unit and the fuel used.

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- 4) For a replacement unit that is not electric, the allowable NO_x emissions rate used in the equations set forth in subsection (g)(2) of this Section must be either:
 - A) Prior to the applicable compliance date for the replaced unit pursuant to Section 217.392, the higher of the actual NO_x emissions as determined by testing or monitoring data or the applicable uncontrolled NO_x emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104 for the unit that was replaced; or
 - B) On and after the applicable compliance date for the replaced unit pursuant to Section 217.392, the applicable emissions concentration for the type of unit replaced, as established in Section 217.388(a).
- 5) For a unit that is replaced with purchased power, the allowable NO_x emissions rate used in the equations set forth in subsection (g)(2) of this Section must be the emissions concentration set forth in Section 217.388(a) or subsection (g)(6) of this Section, when applicable, for the type of unit that was replaced. For owners or operators replacing units with purchased power, the annual hours of operations that must be used are the calendar year hours of operation for the unit that was shut down, averaged over the three-year period prior to the shutdown. The actual

527 NO_x emissions for the units replaced by purchased power (EM_{(i)act}) are
 528 zero. These units may be included in any emissions averaging plan for no
 529 more than five years beginning with the calendar year that the replaced
 530 unit is shut down.

531
 532 6) For units that have a later compliance date, allowable emissions rate used
 533 in the equations set forth in subsection (g)(2) of this Section must be:

534
 535 A) Prior to the applicable compliance date pursuant to Section
 536 217.392, the higher of the actual NO_x emissions as determined by
 537 testing or monitoring data or the applicable uncontrolled NO_x
 538 emissions factor from Compilation of Air Pollutant Emission
 539 Factors: AP-42, Volume I: Stationary Point and Areas Sources, as
 540 incorporated by reference in Section 217.104; and

541
 542 B) On and after the units' applicable compliance date pursuant to
 543 Section 217.392, the applicable emissions concentration for that
 544 type of unit, as established by Section 217.388(a).

545
 546 h) For units that use CEMS, the data must show that the total mass of actual NO_x
 547 emissions determined pursuant to subsection (h)(1) of this Section is less than or
 548 equal to the allowable NO_x emissions calculated in accordance with the equations
 549 in subsections (f) and (h)(2) of this Section for both the ozone season and calendar
 550 year. The equations in subsection (g) of this Section will not apply.

551
 552 1) The total mass of actual NO_x emissions in lbs for a unit (EM_{act}) must be
 553 the sum of the total mass of actual NO_x emissions from each affected unit
 554 using CEMS data collected in accordance with 40 CFR 60 or 75, or
 555 alternate methodology that has been approved by the Agency or USEPA
 556 and included in a federally enforceable permit.

557
 558 2) The allowable NO_x emissions must be determined as follows:
 559

$$Em_{(all)} = \sum_{i=1}^m (Cd_i * flowstack_i * 1.194 \times 10^{-7})$$

560
 561 Where:
 562

EM_{all(i)} = Total mass of allowable NO_x emissions in lbs for a unit.

Flow_i = Stack flow (dscf/hr) for a given stack.

Cd_i = Allowable concentration of NO_x (ppmv) specified in Section
217.388(a) for a given stack. (1.194 x 10⁻⁷ converts to lb/dscf.)

- j = subscript denoting each hour of operation of a given unit.
- m = Total number of hours of operation of a unit.
- i = Subscript denoting an individual unit and the fuel used.

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(Source: Added at 31 Ill. Reg. _____, effective _____)

Section 217.392 Compliance

- a) An owner or operator of an affected unit may not operate that unit unless it meets the applicable concentration limit in Section 217.388(a), or is included in an emissions averaging plan pursuant to Section 217.388(b), or meets the low usage requirements pursuant to Section 217.388(c), and complies with all other applicable requirements of this Subpart Q by the earliest applicable date, listed as follows:
 - 1) On and after May 1, 2007, an owner or operator of an affected engine listed in Appendix G may not operate the affected engine unless the requirements of this Subpart Q are met or the affected engine is exempt pursuant to Section 217.386(b);
 - 2) On and after January 1, 2009, an owner or operator of an affected unit that is located in Cook, DuPage, Aux Sable Township and Goose Lake Township in Grundy, Kane, Oswego Township in Kendall, Lake, McHenry, Will, Jersey, Madison, Monroe, Randolph Township in Randolph, or St. Clair County, and is not listed in Appendix G may not operate the affected unit unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b);
 - 3) On and after January 1, 2011, an owner or operator of an affected engine with a nameplate capacity rated at 1500 bhp or more, and affected turbines rated at 5 MW (6,702 bhp) or more that is not subject to subsection (a)(1) or (a)(2) of this Section, may not operate the affected unit unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b); or
 - 4) On and after January 1, 2012, an owner or operator of an affected engine with a nameplate capacity rated at less than 1500 bhp, or an affected turbine rated at less than 5 MW (6,702 bhp) that is not subject to subsection (a)(1), (a)(2) or (a)(3) of this Section, may not operate the affected engine or turbine unless the requirements of this Subpart Q are met or the affected unit is exempt pursuant to Section 217.386(b).

- 602 b) Owners and operators of an affected unit may use NO_x allowances to meet the
 603 compliance requirements in Section 217.388 as specified in this subsection. An
 604 NO_x allowance is defined as an allowance used to meet the requirements of an
 605 NO_x trading program administered by USEPA where one allowance is equal to
 606 one ton of NO_x emissions.
 607
- 608 1) NO_x allowances may only be used under the following circumstances:
 609
- 610 A) An anomalous or unforeseen operating scenario inconsistent with
 611 historical operations for a particular ozone season or calendar year
 612 that causes an emissions exceedance.
 613
- 614 B) To achieve compliance no more than twice in any rolling five-year
 615 period.
 616
- 617 C) For a unit that is not listed in Appendix G.
 618
- 619 2) The owner or operator of the affected unit must surrender to the Agency
 620 one NO_x allowance for each ton or portion of a ton of NO_x by which
 621 actual emissions exceed allowed emissions. For noncompliance with a
 622 seasonal limit, an NO_x ozone season allowance must be used. For
 623 noncompliance with the emissions concentration limits in Section
 624 217.388(a) or an annual limitation in an emissions averaging plan, only an
 625 NO_x annual allowance may be used.
 626
- 627 3) The owner or operator must submit a report documenting the
 628 circumstances that required the use of NO_x allowances, identify what
 629 actions will be taken in subsequent years to address these circumstances,
 630 and transfer the NO_x allowances to the Agency's federal NO_x retirement
 631 account. The report and the transfer of allowances must be submitted by
 632 October 31 for exceedances during the ozone season and March 1 for
 633 exceedances of the emissions concentration or the annual emission
 634 averaging plan limits. The report must contain the NATS serial numbers
 635 of the NO_x allowances.
 636

637 (Source: Added at 31 Ill. Reg. _____, effective _____)
 638

639 **Section 217.394 Testing and Monitoring**
 640

- 641 a) An owner or operator of an engine or turbine must conduct an initial performance
 642 test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:
 643

- 644 1) By May 1, 2007, for affected engines listed in Appendix G. Performance
645 tests must be conducted on units listed in Appendix G, even if the unit is
646 included in an emissions averaging plan pursuant to Section 217.388(b).
647
- 648 2) By the applicable compliance date set forth in Section 217.392, or within
649 the first 876 hours of operation per calendar year, whichever is later:
650
- 651 A) For affected units not listed in Appendix G that operate more than
652 876 hours per calendar year; and
653
- 654 B) For units that are not affected units that are included in an
655 emissions averaging plan and operate more than 876 hours per
656 calendar year.
657
- 658 3) Once within the five-year period after the applicable compliance date set
659 forth in Section 217.392:
660
- 661 A) For affected units that operate fewer than 876 hours per calendar
662 year; and
663
- 664 B) For units that are not affected units that are included in an
665 emissions averaging plan and that operate fewer than 876 hours per
666 calendar year
667
- 668 b) An owner or operator of an engine or turbine must conduct subsequent
669 performance tests pursuant to subsection (c)(1) or (c)(2) of this Section as
670 follows:
671
- 672 1) For affected engines listed in Appendix G and all units included in an
673 emissions averaging plan, once every five years. Testing must be
674 performed in the calendar year by May 1 or within 60 days after starting
675 operation, whichever is later;
676
- 677 2) If the monitored data shows that the unit is not in compliance with the
678 applicable emissions concentration or emissions averaging plan, the owner
679 or operator must report the deviation to the Agency in writing within 30
680 days and conduct a performance test pursuant to subsection (c) of this
681 Section within 90 days after the determination of noncompliance; and
682
- 683 3) When, in the opinion of the Agency or USEPA, it is necessary to conduct
684 testing to demonstrate compliance with Section 217.388, the owner or
685 operator of a unit must, at his or her own expense, conduct the test in
686 accordance with the applicable test methods and procedures specified in

- 687 this Section within 90 days after receipt of a notice to test from the
 688 Agency or USEPA.
 689
 690 c) Testing Procedures:
 691
 692 1) For an engine: The owner or operator must conduct a performance test
 693 using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by
 694 reference in Section 217.104. Each compliance test must consist of three
 695 separate runs, each lasting a minimum of 60 minutes. NO_x emissions must
 696 be measured while the affected unit is operating at peak load. If the unit
 697 combusts more than one type of fuel (gaseous or liquid), including backup
 698 fuels, a separate performance test is required for each fuel.
 699
 700 2) For a turbine: The owner or operator must conduct a performance test
 701 using the applicable procedures and methods in 40 CFR 60.4400, as
 702 incorporated by reference in Section 217.104.
 703
 704 d) Monitoring: Except for those years in which a performance test is conducted
 705 pursuant to subsection (a) or (b) of this Section, the owner or operator of an
 706 affected unit or a unit included in an emissions averaging plan must monitor NO_x
 707 concentrations annually, once between January 1 and May 1 or within the first
 708 876 hours of operation per calendar year, whichever is later. If annual operation
 709 is less than 876 hours per calendar year, each affected unit must be monitored at
 710 least once every five years. Monitoring must be performed as follows:
 711
 712 1) A portable NO_x monitor and method ASTM D6522-00, as incorporated by
 713 reference in Section 217.104, or a method approved by the Agency must
 714 be used. If the engine or turbine combusts both liquid and gaseous fuels
 715 as primary or backup fuels, separate monitoring is required for each fuel.
 716
 717 2) NO_x and O₂ concentrations measurements must be taken three times for a
 718 duration of at least 20 minutes. Monitoring must be done at highest
 719 achievable load. The concentrations from the three monitoring runs must
 720 be averaged to determine whether the affected unit is in compliance with
 721 the applicable emissions concentration or emissions averaging plan, as
 722 specified in Section 217.388.
 723
 724 e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of
 725 this Section, an owner or operator may install and operate a CEMS on an affected
 726 unit that meets the applicable requirements of 40 CFR 60, subpart A and appendix
 727 B, incorporated by reference in Section 217.104, and complies with the quality
 728 assurance procedures specified in 40 CFR 60, appendix F or 40 CFR 75, as
 729 incorporated by reference in Section 217.104, or an alternate procedure as

730 approved by the Agency or USEPA in a federally enforceable permit. The CEMS
 731 must be used to demonstrate compliance with the applicable emissions
 732 concentration or emissions averaging plan only on an ozone season and annual
 733 basis.

734
 735 (Source: Added at 31 Ill. Reg. _____, effective _____)
 736

737 **Section 217.396 Recordkeeping and Reporting**
 738

739 a) Recordkeeping. The owner or operator of a unit included in an emissions
 740 averaging plan or an affected unit that is not exempt pursuant to Section
 741 217.386(b) and is not subject to the low usage exemption of Section 217.388(c)
 742 must maintain records that demonstrate compliance with the requirements of this
 743 Subpart Q, which include, but are not limited to:

- 744
- 745 1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.
- 746
- 747 2) Calendar date of the record.
- 748
- 749 3) The number of hours the unit operated on a monthly basis and during each
 750 ozone season.
- 751
- 752 4) Type and quantity of the fuel used on a daily basis.
- 753
- 754 5) The results of all monitoring performed on the unit and reported
 755 deviations.
- 756
- 757 6) The results of all tests performed on the unit.
- 758
- 759 7) The plan for performing inspection and maintenance of the units, air
 760 pollution control equipment, and the applicable monitoring device,
 761 pursuant to Section 217.388(d).
- 762
- 763 8) A log of inspections and maintenance performed on the unit's air
 764 emissions, monitoring device, and air pollution control device. These
 765 records must include, at a minimum, date, load levels and any manual
 766 adjustments, along with the reason for the adjustment (e.g., air to fuel
 767 ratio, timing or other settings).
- 768
- 769 9) If complying with the emissions averaging plan provisions of Sections
 770 217.388(b) and 217.390, copies of the calculations used to demonstrate
 771 compliance with the ozone season and annual control period limits,

- 772 noncompliance reports for the ozone season, and ozone and annual control
 773 period compliance reports submitted to the Agency.
 774
 775 10) Identification of time periods for which operating conditions and pollutant
 776 data were not obtained by either the CEMS or alternate monitoring
 777 procedures, including the reasons for not obtaining sufficient data and a
 778 description of corrective actions taken.
 779
 780 11) Any NO_x allowance reconciliation reports submitted pursuant to Section
 781 217.392(e).
 782
 783 b) The owner or operator of an affected unit that is complying with the low usage
 784 provisions of Section 217.388(c) must:
 785
 786 1) For each unit complying with Section 217.388(c)(1), maintain a record of
 787 the NO_x emissions for each calendar year; or
 788
 789 2) For each unit complying with Section 217.388(c)(2), maintain a record of
 790 bhp or MW hours operated each calendar year.
 791
 792 c) The owner or operator of an affected unit or unit included in an emissions
 793 averaging plan must maintain the records required by subsections (a) and (b) of
 794 this Section for a period of five years at the source at which the unit is located.
 795 The records must be made available to the Agency and USEPA upon request.
 796
 797 d) Reporting requirements:
 798
 799 1) The owner or operator must notify the Agency in writing 30 days and five
 800 days prior to testing, pursuant to Section 217.394(a) and:
 801
 802 A) If, after the 30-days notice for an initially scheduled test is sent,
 803 there is a delay (e.g., due to operational problems) in conducting
 804 the performance test as scheduled, the owner or operator of the unit
 805 must notify the Agency as soon as possible of the delay in the
 806 original test date, either by providing at least seven days prior
 807 notice of the rescheduled date of the performance test or by
 808 arranging a new test date with the Agency by mutual agreement;
 809
 810 B) Provide a testing protocol to the Agency 60 days prior to testing;
 811 and
 812
 813 C) Not later than 30 days after the completion of the test, submit the
 814 results of the test to the Agency.

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- 2) Pursuant to the requirements for monitoring in Section 217.394(d), the owner or operator of the unit must report to the Agency any monitored exceedances of the applicable NO_x concentration from Section 217.388(a) or (b) within 30 days after performing the monitoring.

- 3) Within 90 days after permanently shutting down an affected unit or a unit included in an emissions averaging plan, the owner or operator of the unit must withdraw or amend the applicable permit to reflect that the unit is no longer in service.

- 4) If demonstrating compliance through an emissions averaging plan:
 - A) By October 31 following the applicable ozone season, the owner or operator must notify the Agency if he or she cannot demonstrate compliance for that ozone season; and

 - B) By January 30 following the applicable calendar year, the owner or operator must submit to the Agency a report that demonstrates the following:
 - i) For all units that are part of the emissions averaging plan, the total mass of allowable NO_x emissions for the ozone season and for the annual control period;

 - ii) The total mass of actual NO_x emissions for the ozone season and annual control period for each unit included in the averaging plan;

 - iii) The calculations that demonstrate that the total mass of actual NO_x emissions are less than the total mass of allowable NO_x emissions using equations in Section 217.390(f) and (g); and

 - iv) The information required to determine the total mass of actual NO_x emissions and the calculations performed in subsection (d)(4)(B)(iii) of this Section.

- 5) If operating a CEMS, the owner or operator must submit an excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and 60.13 or 40 CFR 75, incorporated by reference in Section 217.104, or an alternate procedure approved by the Agency or USEPA and included in a federally enforceable permit.

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- 6) If using NO_x allowances to comply with the requirements of Section 217.388, reconciliation reports as required by Section 217.392(b)(3).

(Source: Added at 31 Ill. Reg. _____, effective _____)

863 **Section 217.APPENDIX G Existing Reciprocating Internal Combustion Engines Affected**
 864 **by the NO_x SIP Call**
 865

<u>Plant ID</u>	<u>Point ID</u>	<u>Segment</u>
<u>ANR Pipeline Co. – Sandwich</u>		
<u>093802AAF</u>	<u>E-108</u>	<u>1</u>
<u>Natural Gas Pipeline Co. of America 8310</u>		
<u>027807AAC</u>	<u>730103540041</u>	<u>1</u>
<u>Natural Gas Pipeline Co. of America – Sta 110</u>		
<u>073816AAA</u>	<u>851000140011</u>	<u>1</u>
<u>073816AAA</u>	<u>851000140012</u>	<u>2</u>
<u>073816AAA</u>	<u>851000140013</u>	<u>3</u>
<u>073816AAA</u>	<u>851000140014</u>	<u>4</u>
<u>073816AAA</u>	<u>851000140041</u>	<u>1</u>
<u>073816AAA</u>	<u>851000140051</u>	<u>1</u>
<u>Northern Illinois Gas Co. – Stor Stat 359</u>		
<u>113817AAA</u>	<u>730105440021</u>	<u>1</u>
<u>113817AAA</u>	<u>730105440031</u>	<u>1</u>
<u>113821AAA</u>	<u>730105430021</u>	<u>1</u>
<u>113821AAA</u>	<u>730105430051</u>	<u>1</u>
<u>Panhandle Eastern Pipe Line Co. – Glenarm</u>		
<u>167801AAA</u>	<u>87090038002</u>	<u>1</u>
<u>167801AAA</u>	<u>87090038004</u>	<u>1</u>
<u>167801AAA</u>	<u>87090038005</u>	<u>1</u>
<u>Panhandle Eastern Pipe Line Co. – Tuscola Sta</u>		
<u>041804AAC</u>	<u>73010573009</u>	<u>9</u>
<u>041804AAC</u>	<u>73010573010</u>	<u>10</u>
<u>041804AAC</u>	<u>73010573011</u>	<u>11</u>
<u>041804AAC</u>	<u>73010573012</u>	<u>12</u>
<u>041804AAC</u>	<u>73010573013</u>	<u>13</u>
<u>Panhandle Eastern Pipe Line Co.</u>		

<u>149820AAB</u>	<u>7301057199G</u>	<u>3</u>
<u>149820AAB</u>	<u>7301057199I</u>	<u>1</u>
<u>149820AAB</u>	<u>7301057199J</u>	<u>1</u>
<u>149820AAB</u>	<u>7301057199K</u>	<u>1</u>
<u>Panhandle Eastern Pipe Line Co. – Glenarm</u>		
<u>167801AAA</u>	<u>87090038001</u>	<u>1</u>
<u>Phoenix Chemical Co.</u>		
<u>085809AAA</u>	<u>730700330101</u>	<u>1</u>
<u>085809AAA</u>	<u>730700330102</u>	<u>2</u>
<u>085809AAA</u>	<u>730700330103</u>	<u>3</u>

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(Source: Added at 31 Ill. Reg. _____, effective _____)