#### NOTICE OF PROPOSED AMENDMENT

1) Heading of the Part: Permits and General Provisions

Code Citation: 35 Ill. Adm. Code 201 2)

OCT 2 1 2008

3) Section Number:

201.146 Amend



- Statutory Authority: Implementing Sections 10, 39, and 39.5 and authorized by Sections 4) 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, 39, and 39.5]
- A Complete Description of the Subjects and Issues Involved: For a more detailed 5) discussion of these amendments, see the Board's September 16, 2008 opinion and order in docket R07-19: In the Matter of: Section 27 Proposed Rules for Nitrogen Oxide (NO<sub>x</sub>) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146 and Parts 211 and 217. After filing its original rulemaking proposal on April 6, 2007, the Illinois Environmental Protection Agency (Agency) on December 20, 2007 filed a motion to proceed with an amended proposal. In an order dated January 10, 2008, the Board granted that motion.

In its motion to proceed with an amended proposal, the Agency indicated that it intended to control NO<sub>x</sub> emissions from engines and turbines located at 100 ton per year sources located in the Greater Chicago and Metro East/St. Louis nonattainment areas with a capacity at or greater than 500 brake horsepower (bhp) or 3.5 megawatts (MW). The Agency stated that its proposed regulations would help Illinois to meet Clean Air Act (CAA) requirements for NO<sub>x</sub> reasonably available control technology (RACT) under the under the eight-hour National Ambient Air Quality Standard (NAAQS) for ozone and would also improve air quality by reducing precursors of fine particulate matter (PM<sub>2.5</sub>).

- Published studies or reports, and sources of underlying data, used to compose this 6) rulemaking: The Agency's motion to proceed with an amended proposal included the Agency's Amended Technical Support Document for Controlling NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines and Turbines R07-19 (TSD). which 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.
  - 1. National Ambient Air Quality Standards for Ozone, 62 Fed. Reg. 38855, July 18, 1997 (Ozone Standards).
  - 2. National Ambient Air Quality Standards for Particulate Matter, 62 Fed. Reg. 38652, July 18, 1997 (PM<sub>2.5</sub> Standards).

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- 3. Air Quality Designations and Classifications for Fine Particles (PM<sub>2.5</sub>) National Ambient Air Quality Standards, 70 Fed. Reg. 943, January 5, 2005.
- 4. 8-hour Ozone National Ambient Air Quality Standards, 69 Fed. Reg. 23858, April 30, 2004.
- 5. Final Rule to Implement the 8-Hour Ozone National Ambient Air Quality Standard, 70 Fed. Reg. 71612, November 29, 2005.
- 6. Clean Air Fine Particle Implementation; Final Rule, 40 CFR 51, April 25, 2007.
- 7. 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.
- 8. Alternative Control Techniques Document NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines EPA-453/R-93-032, July 1993, USEPA, OAQPS, RTP, NC 27711.
- Alternative Control Techniques Document NO<sub>x</sub> Emissions from Stationary Gas Turbines, EPA-453/R-93-007, January 1993, USEPA, OAQPS, Research Triangle Park, NC 27711
- Stationary Reciprocating Internal Combustion Engines, Updated Information on NO<sub>x</sub> Emissions and Control Techniques, Revised Final Report, EPA Contract No. 68-D-026, Work Assignment No. 2-28, EC/R Project No. ISD-228, September 1, 2000.
- 11. Texas Administrative Code. Title 30, Rule 106.512: Stationary Engines and Turbines
- 12. Indiana Department of Environmental Management, Office of Air Quality, Section 9.326 IAC 10-5. Rule 5 Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE).
- 13. Document Prepared by the State of Connecticut, Department of Environmental Protection. Sec. 22a-174-22 Control of Nitrogen Oxides Emissions.
- 14. Alabama Department of Environmental Management, Air Division, Chapter 335-

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- 3-8, Nitrogen Oxides Emissions.
- 15. New York State, Department of Environmental Conservation Rule and Regulations, Subpart 227.2, Reasonable Available Control Technology (RACT) for Oxides of Nitrogen (NO<sub>x</sub>).
- 16. New Jersey State Department of Environmental Protection, New Jersey Administrative Code Title 7, Chapter 27, Subchapter 19: Control and Prohibition of Air Pollution from Oxides of Nitrogen.
- 17. Pennsylvania Department of Environmental Protection, Air Quality Regulations, Small Source of NO<sub>x</sub> Cement Kilns and Large Internal Combustion Engines, 25 PA Code CHS 121,129 and 145.
- 18. Code of Maryland Regulations. Title 26 Department of the Environment. Subtitle 11 Air Quality, Chapter 09: Control of Fuel-Burning Equipment, Stationary Internal Combustion Engines, and Certain Fuel-Burning Installation.
- 19. Antelope Valley Air Quality Management District. Rule 1110.2: Emissions from Stationary, Non-Road & Portable Internal Combustion Engines.
- 20. San Joaquin Valley Unified Air Pollution Control District Rule 4702: Internal Combustion Engines Phase 2.
- 21. El Dorado County Air Pollution Control District Rule 233: Stationary Internal Combustion Engines.
- 22. Interstate Ozone Transport: Response to Court Decisions on the NO<sub>x</sub> SIP Call, NO<sub>x</sub> SIP Call Technical Amendments, and Section 126 Rules; Final Rule. 69 Fed. Reg. 21603, April 21, 2004.
- 23. South Coast Air Quality Management District, Rule 1134 Emissions of Oxides of Nitrogen from Stationary Gas Turbines.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No
- 9) Does this rulemaking contain incorporations by reference? No

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- 10) Are there any other proposed rulemakings pending on this Part? No
- 11) <u>Statement of Statewide Policy Objectives</u>: 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 R07-19 and be addressed to:

John Therriault, Chief Clerk 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.

- 13) <u>Initial Regulatory Flexibility Analysis</u>:
  - 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 emissions monitoring, complete required tests, and maintain records and reports.
  - C) <u>Types of Professional skills necessary for compliance</u>: 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:

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         Exemptions from State Permit Requirements
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201.170	Portable Emission Units
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Section	
201.180	Applicability (Repealed)
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201.209	Emissions of Hazardous Air Pollutants
201.210	Categories of Insignificant Activities or Emission Levels
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SUBPART G	: EXPERIMENTAL PERMITS (Reserved)
SUBPART H	: COMPLIANCE PROGRAMS AND
PROJECT C	OMPLETION SCHEDULES
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201.241	Contents of Compliance Program
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201.245	Effects of Approval
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201.261	Contents of Request for Permission to Operate During a Malfunction,
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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 R07-19 at 33 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 9.15, 173 and 502 of the Clean Air Act or any other applicable permit or registration requirements.

- 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; 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  $\pm 1$  (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 internal combustion engine with a rated power output of less than 1118 kW (1500 <a href="https://bhphorsepower.bhp">bhphorsepower.bhp</a>) or stationary turbine, except that a permit shall be required for the following:
- 1) 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—217.388(a) or (b); or
- 2) AnyanyAny 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, Subpartsubpart GG;
- 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;

- 1) 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 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 1 (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:
- Used for maintenance activity;
- 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 precipitor 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);
- 11) 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; -
- 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;
- $q\bar{q})$  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;
- Located at a commercial laundry; or
- 3) Coin operated; -

- 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:
- 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 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:
- 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 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 Sectionsection 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 Sectionsection 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 of the Act 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 <u>Sectionsection</u> 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 of the Act 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 33 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

ILLINOIS RECISTER

JCAR350201-0817035r01

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

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		SUBTITLE B: AIR POLLUTION
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13	201.102	Definitions
14	201.103	Abbreviations and Units
15	201.104	Incorporations by Reference
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106		Startup
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		_		
130	201.407		ion of Information	
131	201.408	Comp	liance Schedules	
132				
133	201.APPEN		Rule into Section Table	
134	201.APPEN		Section into Rule Table	
135	201.APPEN	IDIX C	Past Compliance Dates	
136				
137		-	ementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28.5	
138	of the Envir	onmental	Protection Act [415 ILCS 5/10, 27, 28.5, 39, and 39.5].	
139				
140	SOURCE:	Adopted a	as Chapter 2: Air Pollution, Part I: General Provisions, in R71-23, 4 PCB	
141	191, filed an	nd effectiv	ve April 14, 1972; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill.	
142	Reg. 30, p. 1	124, effec	tive July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January	
143	21, 1983; co	dified at	7 Ill. Reg. 13579; amended in R82-1 (Docket A) at 10 Ill. Reg. 12628,	
144	effective Jul	ly 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	g. 17710,	effective November 26, 1991; amended in R93-11 at 17 Ill. Reg. 21483,	
147			, 1993; amended in R94-12 at 18 III. Reg. 15002, effective September 21,	
148	1994; amend	ded in R9	4-14 at 18 Ill. Reg. 15760, effective October 17, 1994; amended in R96-17	
149	at 21 Ill. Reg	g. 7878, e	effective June 17, 1997; amended in R98-13 at 22 Ill. Reg. 11451, effective	
150	June 23, 199	98; amend	led in R98-28 at 22 Ill. Reg. 11823, effective July 31, 1998; amended in	
151	' <del>-</del>		. 5820, effective March 21, 2003; amended in R05-19 and R05-20 at 30 Ill.	
152			March 3, 2006; amended in R07-19 at 33 Ill. Reg. , effective	
153	· ·		· · · · · · · · · · · · · · · · · · ·	
154	<del>.</del>			
155			SUBPART C: PROHIBITIONS	
156				
157	Section 201	.146 Exe	emptions from State Permit Requirements	
158				
159	Construction	n or opera	ting 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 e	xemption	s 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 Sections 165, 173 and			
164	502 of the Clean Air Act or any other applicable permit or registration requirements.			
165	-			
166	a)	Air co	ntaminant detectors or recorders, combustion controllers or combustion	
167	/	shutof	·	
168				
169	b)	Air co	nditioning or ventilating equipment not designed to remove air	
170	٠,		ninants generated by or released from associated equipment;	
171		Contain	Benerated of or revened from appointed equipment,	
172	c)	Each fi	uel burning emission unit for indirect systems and for heating and reheating	
1/4	<i>c</i> )	Lacii I	and remaining officially and remaining and remaining and remeating	

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, subpartSubpart 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 1 (5,000 gal)
194	0,	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 internal combustion engine with a rated power output of less than
202	,	1118 kW (1500 bhphorsepower) or stationary turbine, except that a permit shall
203		be required for the following:
204		1
205		1) Any internal combustion engine with a rating at equal to or greater than
206		500 bhp output that is subject to the control requirements of 35 Ill. Adm.
207		Code 217.388(a) or (b); or
208		
209		2) Anyany stationary gas turbine engine with a rated heat input at peak load
210		of 10.7 gigajoules/hr (10 mmbtu/hr) or more that is constructed,
211		reconstructed or modified after October 3, 1977 and that is subject to
212		requirements of 40 CFR 60, subpartSubpart GG;
213		
214	j)	Rest room facilities and associated cleanup operations, and stacks or vents used to
215	37	prevent the escape of sewer gases through plumbing traps;

216		
217	k)	Safety devices designed to protect life and limb, provided that a permit is not
218		otherwise required for the emission unit with which the safety device is
219		associated;
220		
221	1)	Storage tanks for liquids for retail dispensing except for storage tanks that are
222		subject to the requirements of 35 Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or
223		219.583(a)(2);
224		
225	m)	Printing operations with aggregate organic solvent usage that never exceeds 2,839
226	Í	1 (750 gal) per year from all printing lines at the source, including organic solvent
227		from inks, dilutents, fountain solutions and cleaning materials;
228		
229	n)	Storage tanks of:
230	/	
231		1) Organic liquids with a capacity of less than 37,850 l (10,000 gal),
232		provided the storage tank is not used to store any material listed as a
233		hazardous air pollutant pursuant to section Section 112(b) of the Clean Air
234		Act, and provided the storage tank is not subject to the requirements of 35
235		Ill. Adm. Code 215.583(a)(2), 218.583(a)(2) or 219.583(a)(2);
236		In: 11dii: Codo 215.505(a)(2), 210.505(a)(2) 01 215.505(a)(2),
237		2) Any size containing exclusively soaps, detergents, surfactants, waxes,
238		glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup,
239 239		aqueous salt solutions or aqueous caustic solutions, provided an organic
240		solvent has not been mixed with such materials; or
241		solvent has not been mixed with such materials, of
241 242		3) Any size containing virgin or re-refined distillate oil, hydrocarbon
242 243		condensate from natural gas pipeline or storage systems, lubricating oil or
24 <i>3</i> 244		residual fuel oils;
2 <del>44</del> 245		residuai tuei oiis <sub>2</sub> -
243 246	۵)	Threaded pipe connections, vessel manways, flanges, valves, pump seals, pressure
2 <del>4</del> 0 247	0)	relief valves, pressure relief devices and pumps;
		Tener varves, pressure rener devices and pumps,
248	<b>~</b> )	Commiling commentions used evaluatively to with draw meetowield for testing and
249	p)	Sampling connections used exclusively to withdraw materials for testing and
250		analyses;
251	۵)	All stances tendre of Illinois amide all with conseits of less than 151 400 1 (40 000
252	q)	All storage tanks of Illinois crude oil with capacity of less than 151,400 1 (40,000
253		gal) located on oil field sites;
254	`	
255	r)	All organic material-water single or multiple compartment effluent water
256		separator facilities for Illinois crude oil of vapor pressure of less than 34.5 kPa
257		absolute (5 psia);
258		

259 260	s)	Grain-handling operations, exclusive of grain-drying operations, with an annual 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 precipitor or a
300		scrubber;-
301		

302 303 304 305	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;	
306 307 308	cc)	Extruders used for the extrusion of metals, minerals, plastics, rubber or wood, excluding:	
309		1) Extruders used in the manufacture of polymers;	
310 311 312 313 314		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	
315 316 317		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;	
318 319 320 321	dd)	Furnaces used for melting metals, other than beryllium, with a brim full capac of less than 450 cubic inches by volume;	
322 323 324	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;	
325 326 327 328 329 330	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;	
331 332 333 334 335 336	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;	
337 338 339	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;	
340 341 342 343 344	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;	

345 346 347	jj)	Air pollution control devices used exclusively with other equipment that is exempt from permitting, as provided in this Section;
348	kk)	An emission unit for which a registration system designed to identify sources and
349 350		emission units subject to emission control requirements is in place, such as the
350 351		registration system found at 35 Ill. Adm. Code 218.586 (Gasoline Dispensing
351		Operations – Motor Vehicle Fueling Operations) and 35 Ill. Adm. Code 218,
352 353		Subpart HH (Motor Vehicle Refinishing);
353	11\	
354	11)	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		
362		1) Gasoline fuel handling; and
363		
364		2) Motor vehicle refinishing:
365		
366	00)	Equipment using water, water and soap or detergent, or a suspension of abrasives
367		in water for purposes of cleaning or finishing, provided no organic solvent has
368		been added to the water;
369		
370	pp)	Administrative activities including, but not limited to, paper shredding, copying,
371		photographic activities and blueprinting machines. This does not include
372		incinerators;
373		
374	qq)	Laundry dryers, extractors, and tumblers processing that have been cleaned with
375		water solutions of bleach or detergents that are:
376		<u> </u>
377		1) Located at a source and process clothing, bedding and other fabric items
378		used at the source, provided that any organic solvent present in such items
379		before processing that is retained from cleanup operations shall be
380		addressed as part of the VOM emissions from use of cleaning materials;
381		,
382		2) Located at a commercial laundry; or
383		2)
384		3) Coin operated:
385		e, com obsession.
386 387	rr)	Housekeeping activities for cleaning purposes, including collecting spilled and accumulated materials, including operation of fixed vacuum cleaning systems
•		, 5 1

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 sectionSection 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	уу)	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
	,	

431 432 433 434 435		an emission unit or other equipment installed at the source, not including the shutdown of the unit or equipment, including preparation for maintenance, report dismantlement, and preparation for subsequent startup, including preparation a shutdown vessel for entry, replacement of insulation, welding and cutting, a steam purging of a vessel prior to startup;		
137 138 139	ddd)	Equipment used for corona arc discharge surface treatment of plastic with a powrating of 5 kW or less or equipped with an ozone destruction device;		
140 141 142	eee)	Equipment used to seal or cut plastic bags for commercial, industrial or domestic use;		
143 144 145	fff)	Each dexclud	irect-fired gas dryer used for a washing, cleaning, coating or printing line, ing:	
146 147 148		1)	Dryers with a rated heat input capacity of 2930 kW (10 mmbtu/hr) or more; and	
146 149 150 151 152 153		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;	
155 156 157 158	ggg)	Municipal solid waste landfills with a maximum total design capacity of less than 2.5 million Mg or 2.5 million m <sup>3</sup> 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		
159 160 161	hhh)	-	ement or addition of air pollution control equipment for existing emission circumstances where:	
162 163 164 165		1)	The existing emission unit is permitted and has operated in compliance for the past year;	
166 167 168		2)	The new control equipment will provide equal or better control of the target pollutants;	
169 170 171		3)	The new control device will not be accompanied by a net increase in emissions of any non-targeted criteria air pollutant;	
172 173		•	Different State or federal regulatory requirements or newly proposed 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)	Repla	cement, addition, or modification of emission units at facilities with
488	,	-	ally enforceable State operating permits limiting their potential to emit in
489			mstances 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			omission and, is less than our pound per nour or our rolls per year,
496		2)	The raw materials and fuels used or present in the emission unit that cause
497		2)	or contribute to emissions, based on the information contained in Materia
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 sectionSection 112(b) of the federal Clean Air Act;
500			under section section 112(b) of the federal Clean An Act,
502		3)	The emission unit or modification is not subject to an emission standard of
503		3)	other regulatory requirement pursuant to section Section 111 of the federal
504			Clean Air Act;
505			Clean An Act,
506		4)	Potential emissions of regulated air pollutants from the emission unit or
507		7)	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 section 165 or 173 of the
510 511			federal Clean Air Act, or the requirement to obtain a revised federally
512			enforceable State operating permit limiting the source's potential to emit;
			and
513		5)	The governor is not examently the subject of a New consultance A delication
514		5)	The source is not currently the subject of a Non-compliance Advisory,
515			Clean Air Act Section 114 Request, Violation Notice, Notice of Violation

516 517			Compliance Commitment Agreement, Administrative Order, or civil or criminal enforcement action, related to the air emissions of the source;
518			criminal emoreement action, related to the an emissions of the source <sub>1</sub> .
519	;;;)	Donlar	cement, addition, or modification of emission units at permitted sources that
520	jjj)	-	•
			t major sources subject to Section 39.5 of the Act and that do not have a
521			lly enforceable Statestate operating permit limiting their potential to emit, in
522		circum	nstances where:
523		4.	
524		1)	The potential to emit of any regulated air pollutant in the absence of air
525			pollution control equipment from the new emission unit, or the increase in
526			the potential to emit resulting from the modification of any existing
527			emission unit is either:
528			
529			A) Less than 0.1 pound per hour or 0.44 tons per year; or
530			
531			B) Less than 0.5 pound per hour, and the permittee provides prior
532			notification to the Agency of the intent to construct or install the
533			unit. The unit may be constructed, installed or modified
534			immediately after the notification is filed;
335			
36		2)	The emission unit or modification is not subject to an emission standard or
37			other regulatory requirement under section Section 111 or 112 of the
38			federal Clean Air Act;
39			
540		3)	Potential emissions of regulated air pollutants from the emission unit or
541		,	modification will not, in combination with the emissions from existing
542			units or other proposed units, trigger permitting requirements under
543			Section 39.5 of the Act or the requirement to obtain a federally
544			enforceable permit limiting the source's potential to emit; and
545			
546		4)	The source is not currently the subject of a Non-compliance Advisory,
647		• /	Clean Air Act Section 114 Request, Violation Notice, Notice of Violation,
548			Compliance Commitment Agreement, Administrative Order, or civil or
349			criminal enforcement action, related to the air emissions of the source;
550			the second action, related to the simulations of the source.
551	kkk)	The ox	wner or operator of a CAAPP source is not required to obtain an air
552	inni		ion control construction permit for the construction or modification of an
553		-	on unit or activity that is an insignificant activity as addressed by Section
554			10 or 201.211 of this Part. Section 201.212 of this Part must still be
555			red, as applicable. Other than excusing the owner or operator of a CAAPP
556			from the requirement to obtain an air pollution control construction permit
i57			e emission units or activities, nothing in this subsection shall alter or affect
58 58			bility of the CAAPP source for compliance with emission standards and
20		uie nai	omy of the CAAI I source for compliance with emission standards and

559	other requirements that apply to the emission units or activities, either
560	individually or in conjunction with other emission units or activities constructed,
561	modified or located at the source;
562	
563	lll) Plastic injection molding equipment with an annual through-put not exceeding
564	5,000 tons of plastic resin in the aggregate from all plastic injection molding
565	equipment at the source, and all associated plastic resin loading, unloading,
566	conveying, mixing, storage, grinding, and drying equipment and associated mold
567	release and mold cleaning agents.
568	
569	(Source: Amended at 33 Ill. Reg, effective)

### NOTICE OF PROPOSED AMENDMENT

1) Heading of the Part: Definitions and General Provisions

2) <u>Code Citation</u>: 35 Ill. Adm. Code 211

3) <u>Section Number</u>: 211.1920

Proposed Action:

Amend



- 4) <u>Statutory Authority</u>: Implementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, 39, and 39.5]
- A Complete Description of the Subjects and Issues Involved: For a more detailed discussion of these amendments, see the Board's September 16, 2008 opinion and order in docket R07-19: In the Matter of: Section 27 Proposed Rules for Nitrogen Oxide (NOx) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146 and Parts 211 and 217. After filing its original rulemaking on April 6, 2007, the Illinois Environmental Protection Agency (Agency) on December 20, 2007 filed a motion to proceed with an amended proposal. In an order dated January 10, 2008, the Board grantd that motion.

In its motion to proceed with an amended proposal, the Agency indicated that it intended to control NO<sub>x</sub> emissions from engines and turbines located at 100 ton per year sources located in the Greater Chicago and Metro East/St. Louis nonattainment areas with a capacity of 500 brake horsepower (bhp) or 3.5 megawatts (MW). In its motion to proceed with an amended proposal, the Agency stated that its proposed regulations would help Illinois to meet Clean Air Act (CAA) requirements for NO<sub>x</sub> reasonably available control technology (RACT) under the under the eight-hour National Ambient Air Quality Standard (NAAQS) for ozone and would also improve air quality by reducing precursors of fine particulate matter (PM<sub>2.5</sub>).

- Published studies or reports, and sources of underlying data, used to compose this rulemaking: The Agency's motion to proceed with an amended proposal included the Agency's Amended Technical Support Document for Controlling NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines and Turbines R07-19 (TSD), which 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.
  - 1. National Ambient Air Quality Standards for Ozone, 62 Fed. Reg. 38855, July 18, 1997 (Ozone Standards).
  - 2. National Ambient Air Quality Standards for Particulate Matter, 62 Fed. Reg.

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38652, July 18, 1997 (PM<sub>2.5</sub> Standards).

- 3. Air Quality Designations and Classifications for Fine Particles (PM<sub>2.5</sub>) National Ambient Air Quality Standards, 70 Fed. Reg. 943, January 5, 2005.
- 4. 8-hour Ozone National Ambient Air Quality Standards, 69 Fed. Reg. 23858, April 30, 2004.
- 5. Final Rule to Implement the 8-Hour Ozone National Ambient Air Quality Standard, 70 Fed. Reg. 71612, November 29, 2005.
- 6. Clean Air Fine Particle Implementation; Final Rule, 40 CFR 51, April 25, 2007.
- 7. 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.
- 8. Alternative Control Techniques Document--NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines EPA-453/R-93-032, July 1993, USEPA, OAQPS, RTP, NC 27711.
- Alternative Control Techniques Document NO<sub>x</sub> Emissions from Stationary Gas Turbines, EPA-453/R-93-007, January 1993, USEPA, OAQPS, Research Triangle Park, NC 27711
- Stationary Reciprocating Internal Combustion Engines, Updated Information on NO<sub>x</sub> Emissions and Control Techniques, Revised Final Report, EPA Contract No. 68-D-026, Work Assignment No. 2-28, EC/R Project No. ISD-228, September 1, 2000.
- 11. Texas Administrative Code. Title 30, Rule 106.512: Stationary Engines and Turbines
- 12. Indiana Department of Environmental Management, Office of Air Quality, Section 9.326 IAC 10-5. Rule 5 Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE).
- 13. Document Prepared by the State of Connecticut, Department of Environmental Protection. Sec. 22a-174-22 Control of Nitrogen Oxides Emissions.

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- 14. Alabama Department of Environmental Management. Air Division, Chapter 335-3-8, Nitrogen Oxides Emissions.
- 15. New York State, Department of Environmental Conservation Rule and Regulations, Subpart 227.2, Reasonable Available Control Technology (RACT) for Oxides of Nitrogen (NO<sub>x</sub>).
- 16. New Jersey State Department of Environmental Protection, New Jersey Administrative Code Title 7, Chapter 27, Subchapter 19: Control and Prohibition of Air Pollution from Oxides of Nitrogen.
- 17. Pennsylvania Department of Environmental Protection, Air Quality Regulations, Small Source of NO<sub>x</sub> Cement Kilns and Large Internal Combustion Engines, 25 PA Code CHS 121,129 and 145.
- 18. Code of Maryland Regulations. Title 26 Department of the Environment. Subtitle 11 Air Quality, Chapter 09: Control of Fuel-Burning Equipment, Stationary Internal Combustion Engines, and Certain Fuel-Burning Installation.
- 19. Antelope Valley Air Quality Management District. Rule 1110.2: Emissions from Stationary, Non-Road & Portable Internal Combustion Engines.
- 20. San Joaquin Valley Unified Air Pollution Control District Rule 4702: Internal Combustion Engines Phase 2.
- 21. El Dorado County Air Pollution Control District Rule 233: Stationary Internal Combustion Engines.
- 22. Interstate Ozone Transport: Response to Court Decisions on the NO<sub>x</sub> SIP Call, NO<sub>x</sub> SIP Call Technical Amendments, and Section 126 Rules; Final Rule. 69 Fed. Reg. 21603, April 21, 2004.
- 23. South Coast Air Quality Management District, Rule 1134 Emissions of Oxides of Nitrogen from Stationary Gas Turbines.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No
- 9) <u>Does this rulemaking contain incorporations by reference?</u> No.

# NOTICE OF PROPOSED AMENDMENT

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

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER C: EMISSION STANDARDS AND LIMITATIONS FOR STATIONARY SOURCES PART 211 DEFINITIONS AND GENERAL PROVISIONS SUBPART A: GENERAL PROVISIONS Section Incorporations by Reference 211.101 211.102 Abbreviations and Conversion Factors SUBPART B: DEFINITIONS Section Other Definitions 211.121 211.122 Definitions (Repealed) 211.130 Accelacota 211.150 Accumulator 211.170 Acid Gases Actual Heat Input Adhesive 211.210 211.230 Adhesion Promoter 211.240 211.250 Aeration 211.270 Aerosol Can Filling Line 211.290 Afterburner 211.310 Air Contaminant Air Dried Coatings 211.330 Air Oxidation Process 211.350 211.370 Air Pollutant 211.390 Air Pollution 211.410 Air Pollution Control Equipment 211.430 Air Suspension Coater/Dryer 211.450 Airless Spray Air Assisted Airless Spray<del>211.3970</del> 211.470 Alcohol 211.474 211.479 Allowance Animal 211.484 211.485 Animal Pathological Waste Annual Grain Through-Put 211.490 211.495 Anti-Glare/Safety Coating 211.510 Application Area Architectural Coating 211.530 211.550 As Applied As-Applied Fountain Solution 211.560 211.570 Asphalt Asphalt Prime Coat 211.590 211.610 Automobile Automobile or Light-Duty Truck Assembly Source or Automobile or 211.630 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

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211.6310
           Start-Up
211.6330
           Stationary Emission Source
           Stationary Emission Unit
211.6350
211.6355
           Stationary Gas Turbine
           Stationary Reciprocating Internal Combustion Engine
211.6360
211.6370
           Stationary Source
211.6390
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211.6400
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211.6430
           Styrene Devolatilizer Unit
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211.6470
           Substrate
211.6490
211.6510
           Sulfuric Acid Mist
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211.6530
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211.6550
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211.6570
           Tablet Coating Operation
211.6580
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211.6770
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Valves Not Externally Regulated

211.6930

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Vapor Balance System
211.6950
            Vapor Collection System
211.6970
           Vapor Control System
211.6990
211.7010
           Vapor-Mounted Primary Seal
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211.7030
211.7050
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211.7090
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211.7290
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211.7310
           Wood Furniture Coating Line
211.7330
211.7350
           Woodworking
211.7400
           Yeast Percentage
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211.APPENDIX A Rule into Section Table 211.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. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 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. 14271,14254, effective September 25, 2007; amended in R0708-196 at 3332 Ill. Reg. \_\_\_\_\_1387, effective January 16, 2008; amended in R07-19 at 33 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_

SUBPART B: DEFINITIONS

Section 211.1920 Emergency or Standby Unit

"Emergency or 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 or 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.
- 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 or standby use.
- e) Notwithstanding any other subsection in this Section, emergency or standby units may operate an additional 50 hours per year in non-emergency situations.

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	33	Ill.	Reg,	_	effective-
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<b>ILLINOIS</b>	RECISTER						

NOTICE OF PROPOSED AMENDMENT

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# 1ST NOTICE VERSION

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404	211.6140	Specialty Coatings
405	211.6145	Specialty Coatings Specialty Coatings for Motor Vehicles
406	211.6150	Specialty High Gloss Catalyzed Coating
407	211.6170	Specialty Leather
408	211.6170	Specialty Soybean Crushing Source
409	211.6210	Splash Loading
410	211.6230	Stack
411	211.6250	Stain Coating
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413	211.6290	Standard Cubic Foot (scf)
414	211.6310	Standard Cubic Foot (scr)
415	211.6330	Stationary Emission Source
416	211.6350	Stationary Emission Unit
417		Stationary Gas Turbine
418	211.6360	Stationary Reciprocating Internal Combustion Engine
419	211.6370	Stationary Source
420	211.6390	Stationary Storage Tank
421	211.6400	Stencil Coat
422	211.6410	Storage Tank or Storage Vessel
423	211.6420	Strippable Spray Booth Coating
424	211.6430	Styrene Devolatilizer Unit
425	211.6450	Styrene Recovery Unit
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427	211.6490	Substrate
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429	211.6530	Surface Condenser
430	211.6540	Surface Preparation Materials
TJU	211.UJTU	partago i roparation materials

431	211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant
432	211.6570	Tablet Coating Operation
433	211.6580	Texture Coat
434	211.6590	Thirty-Day Rolling Average
435	211.6610	Three-Piece Can
436	211.6620	Three or Four Stage Coating System
437	211.6630	Through-the-Valve Fill
438	211.6650	Tooling Resin
439	211.6670	Topcoat
440	211.6690	Topcoat Operation
441	211.6695	Topcoat System
442	211.6710	Touch-Up
443	211.6720	Touch-Up Coating
444	211.6730	Transfer Efficiency
445	211.6750	Tread End Cementing
446	211.6770	True Vapor Pressure
447	211.6790	Turnaround
448	211.6810	Two-Piece Can
449	211.6830	Under-the-Cup Fill
450	211.6850	Undertread Cementing
451	211.6860	Uniform Finish Blender
452	211.6870	Unregulated Safety Relief Valve
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454	211.6890	Vacuum Producing System
455	211.6910	Vacuum Service
456	211.6930	Valves Not Externally Regulated
457	211.6950	Vapor Balance System
458	211.6970	Vapor Collection System
459	211.6990	Vapor Control System
460	211.7010	Vapor-Mounted Primary Seal
461	211.7030	Vapor Recovery System
462	211.7050	Vapor-Suppressed Polyester Resin
463	211.7070	Vinyl Coating
464	211.7090	Vinyl Coating Line
465	211.7110	Volatile Organic Liquid (VOL)
466	211.7130	Volatile Organic Material Content (VOMC)
467	211.7150	Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
468	211.7170	Volatile Petroleum Liquid
469	211.7190	Wash Coat
470	211.7200	Washoff Operations
471	211.7210	Wastewater (Oil/Water) Separator
472	211.7230	Weak Nitric Acid Manufacturing Process
473	211.7250	Web

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474
       211.7270
                      Wholesale Purchase – Consumer
475
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476
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                      Wood Furniture Coating
477
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478
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479
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481
       211.APPENDIX A
                             Rule into Section Table
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       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.
       1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September
505
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.
       Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May
511
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
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517 518 519 520 521 522	at 25 Ill. Re May 23, 200 R04-12/20 a 14254, effec	nended in R01-11 at 25 III. Reg. 4582, effective March 15, 2001; amended in R01-17 g. 5900, effective April 17, 2001; amended in R05-16 at 29 III. Reg. 8181, effective 05; amended in R05-11 at 29 III. Reg. 8892, effective June 13, 2005; amended in at 30 III. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 III. Reg. etive September 25, 2007; amended in R08-6 at 32 III. Reg. 1387, effective January nended in R07-19 at 33 III. Reg, effective
523 524		SUBPART B: DEFINITIONS
525 526	Section 211	.1920 Emergency or Standby Unit
527 528 529		or Standby Unit" means, for a stationary gas turbine or a stationary reciprocating abustion engine, a unit that:
530 531 532 533 534 535 536	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 or 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.
537 538 539	b)	Operates exclusively for firefighting or flood control or both.
540 541	c)	Operates in response to and during the existence of any officially declared disaster or state of emergency.
542 543 544 545	d)	Operates for the purpose of testing, repair or routine maintenance to verify its readiness for emergency or standby use.
546 547 548	<u>e)</u>	Notwithstanding any other subsection in this Section, emergency or standby units may operate an additional 50 hours per year in non-emergency situations.
549 550		es not include equipment used for purposes other than emergencies, as described as to supply power during high electric demand days.
551 552	(Sou	rce: Amended at 33 Ill. Reg, effective)

#### NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Nitrogen Oxides Emissions

2) <u>Code Citation</u>: 35 Ill. Adm. Code 217

3)	Section Numbers:	<u>Proposed Action</u> :
	217.386	Amend
	217.388	Amend
	217.390	Amend
	217.392	Amend
	217.394	Amend
	217.396	Amend



- 4) <u>Statutory Authority</u>: Implementing Sections 10, 39, and 39.5 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, 28, 39, and 39.5]
- A Complete Description of the Subjects and Issues Involved: For a more detailed discussion of these amendments, see the Board's September 16, 2008 opinion and order in docket R07-19: In the Matter of: Section 27 Proposed Rules for Nitrogen Oxide (NO<sub>x</sub>) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code 201.146 and Parts 211 and 217. After filing its original rulemaking proposal on April 6, 2007, the Illinois Environmental Protection Agency (Agency) on December 20, 2007 filed a motion to proceed with an amended proposal. In an order dated January 10, 2008, the Board granted that motion.

In its motion to proceed with an amended proposal, the Agency indicated that it intended to control  $NO_x$  emissions from engines and turbines located at 100 ton per year sources located in the Greater Chicago and Metro East/St. Louis nonattainment areas with a capacity at or greater than 500 brake horsepower (bhp) or 3.5 megawatts (MW). The Agency stated that its proposed regulations would help Illinois to meet Clear Air Act (CAA) requirements for  $NO_x$  reasonably available control technology (RACT) under the eight-hour National Ambient Air Quality Standard (NAAQS) for ozone and would also improve air quality by reducing precursors of fine particulate matter ( $PM_{2.5}$ ).

Published studies or reports, and sources of underlying data, used to compose this rulemaking: The Agency's motion to proceed with an amended proposal included the IEPA's Amended Technical Support Document for Controlling NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines and Turbines R07-19I (TSD), which 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.

#### NOTICE OF PROPOSED AMENDMENTS

- 1. National Ambient Air Quality Standards for Ozone, 62 Fed. Reg. 38855, July 18, 1997 (Ozone Standards).
- 2. National Ambient Air Quality Standards for Particulate Matter, 62 Fed. Reg. 38652, July 18, 1997 (PM<sub>2.5</sub> Standards).
- 3. Air Quality Designations and Classifications for Fine Particles (PM<sub>2.5</sub>) National Ambient Air Quality Standards, 70 Fed. Reg. 943, January 5, 2005.
- 4. 8-hour Ozone National Ambient Air Quality Standards, 69 Fed. Reg. 23858, April 30, 2004.
- 5. Final Rule to Implement the 8-Hour Ozone National Ambient Air Quality Standard, 70 Fed. Reg. 71612, November 29, 2005.
- 6. Clean Air Fine Particle Implementation; Final Rule, 40 CFR 51, April 25, 2007.
- 7. 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.
- 8. Alternative Control Techniques Document NO<sub>x</sub> Emissions from Stationary Reciprocating Internal Combustion Engines EPA-453/R-93-032, July 1993, USEPA, OAQPS, RTP, NC 27711.
- Alternative Control Techniques Document NO<sub>x</sub> Emissions from Stationary Gas Turbines, EPA-453/R-93-007, January 1993, USEPA, OAQPS, Research Triangle Park, NC 27711
- Stationary Reciprocating Internal Combustion Engines, Updated Information on NO<sub>x</sub> Emissions and Control Techniques, Revised Final Report, EPA Contract No. 68-D-026, Work Assignment No. 2-28, EC/R Project No. ISD-228, September 1, 2000.
- 11. Texas Administrative Code. Title 30, Rule 106.512: Stationary Engines and Turbines
- 12. Indiana Department of Environmental Management, Office of Air Quality, Section 9.326 IAC 10-5. Rule 5 Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE).

#### NOTICE OF PROPOSED AMENDMENTS

- 13. Document Prepared by the State of Connecticut, Department of Environmental Protection. Sec. 22a-174-22 Control of Nitrogen Oxides Emissions.
- 14. Alabama Department of Environmental Management. Air Division, Chapter 335-3-8, Nitrogen Oxides Emissions.
- 15. New York State, Department of Environmental Conservation Rule and Regulations, Subpart 227.2, Reasonable Available Control Technology (RACT) for Oxides of Nitrogen (NO<sub>x</sub>).
- 16. New Jersey State Department of Environmental Protection, New Jersey Administrative Code Title 7, Chapter 27, Subchapter 19: Control and Prohibition of Air Pollution from Oxides of Nitrogen.
- 17. Pennsylvania Department of Environmental Protection, Air Quality Regulations, Small Source of NO<sub>x</sub> Cement Kilns and Large Internal Combustion Engines, 25 PA Code CHS 121,129 and 145.
- 18. Code of Maryland Regulations. Title 26 Department of the Environment. Subtitle 11 Air Quality, Chapter 09: Control of Fuel-Burning Equipment, Stationary Internal Combustion Engines, and Certain Fuel-Burning Installation.
- 19. Antelope Valley Air Quality Management District. Rule 1110.2: Emissions from Stationary, Non-Road & Portable Internal Combustion Engines.
- 20. San Joaquin Valley Unified Air Pollution Control District Rule 4702: Internal Combustion Engines Phase 2.
- 21. El Dorado County Air Pollution Control District Rule 233: Stationary Internal Combustion Engines.
- Interstate Ozone Transport: Response to Court Decisions on the NO<sub>x</sub> SIP Call, NO<sub>x</sub> SIP Call Technical Amendments, and Section 126 Rules; Final Rule. 69 Fed. Reg. 21603, April 21, 2004.
- 23. South Coast Air Quality Management District, Rule 1134 Emissions of Oxides of Nitrogen from Stationary Gas Turbines.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No

#### NOTICE OF PROPOSED AMENDMENTS

- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No
- 9) Does this proposed rulemaking contain incorporations by reference? No
- 10) Are there any other proposed amendments pending on this Part? Yes, in R08-19 (In the Matter of: Nitrogen Oxides Emissions from Various Source Categories: Amendments to 35 Ill. Adm. Code Parts 211 and 217)
- 11) <u>Statement of Statewide Policy Objectives</u>: 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:

John Therriault, Chief Clerk 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.

- 13) <u>Initial Regulatory Flexibility Analysis</u>:
  - 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 emissions monitoring, complete required tests, and maintain records and reports
  - C) Types of professional skills necessary for compliance: No professional skills beyond those currently required by the existing state and federal air pollution

#### NOTICE OF PROPOSED AMENDMENTS

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 EC: EMISSION STANDARDS AND LIMITATIONS

FOR STATIONARY SOURCES

PART 217

NITROGEN OXIDES EMISSIONS

SUBPART A: GENERAL PROVISIONS

Section

Scope and Organization 217.100 Measurement Methods 217.101 217.102 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

Industrial Processes 217.301

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

Control Requirements 217.402

217.404 Testing

217.406 Monitoring

217.408 Reporting

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Recordkeeping
217.410
SUBPART U: NOX CONTROL AND TRADING PROGRAM FOR
SPECIFIED NOX GENERATING UNITS
Section
217.450
           Purpose
217.452
           Severability
        Applicability
217.454
217.456 Compliance Requirements
217.458 Permitting Requirements
217.460 Subpart U NOx Trading Budget
217.462
           Methodology for Obtaining NOx Allocations
           Methodology for Determining NOx Allowances from the New Source Set-
217.464
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
          Low-Emitter Requirements
217.472
          Opt-In Units
217.474
          Opt-In Process
217.476
217.478 Opt-In Budget Units: Withdrawal from NOx Trading Program 217.480 Opt-In Units: Change in Regulatory Status
          Allowance Allocations to Opt-In Budget Units
217.482
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
        Reporting and Recordkeeping
217.712
SUBPART W: NOx TRADING PROGRAM FOR
ELECTRICAL GENERATING UNITS
Section
          Purpose
217.750
217.752
          Severability
217.754 Applicability
217.756 Compliance Requirements
217.758 Permitting Requirements
           NOx Trading Budget
217.760
           Methodology for Calculating NOx Allocations for Budget Electrical
217.762
Generating Units (EGUs)
           NOx Allocations for Budget EGUs
217.764
           New Source Set-Asides for "New" Budget EGUs
217.768
           Early Reduction Credits for Budget EGUs
217.770
           Opt-In Units
217.774
           Opt-In Process
217.776
           Budget Opt-In Units: Withdrawal from NOx Trading Program
217.778
           Opt-In Units: Change in Regulatory Status
217.780
           Allowance Allocations to Budget Opt-In Units
217.782
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#### SUBPART X: VOLUNTARY NOX EMISSIONS REDUCTION PROGRAM

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Section
           Purpose
217.800
217.805
           Emission Unit Eligibility
           Participation Requirements
217.810
           NOx Emission Reductions and the Subpart X NOx Trading Budget
217.815
217.820
           Baseline Emissions Determination
217.825
           Calculation of Creditable NOx Emission Reductions
217.830
          Limitations on NOx Emission Reductions
          NOx Emission Reduction Proposal
217.835
217.840
          Agency Action
          Emissions Determination Methods
217.845
217.850
          Emissions Monitoring
217.855
           Reporting
217.860
           Recordkeeping
217.865
           Enforcement
217.APPENDIX A
                 Rule into Section Table
                 Section into Rule Table
217.APPENDIX B
217.APPENDIX C
                 Compliance Dates
                 Non-Electrical Generating Units
217.APPENDIX D
217.APPENDIX E
                 Large Non-Electrical Generating Units
                 Allowances for Electrical Generating Units
217.APPENDIX F
                 Existing Reciprocating Internal Combustion Engines Affected by
217.APPENDIX G
the NOx SIP Call
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AuthorityAUTHORITY: Implementing Sections 9.9 and 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/9.9, 10, 27 and 28].

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. 14254,14271, effective September 25, 2007; amended in R07-19 at 33.33 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

SUBPART Q: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES AND TURBINES

Section 217.386 Applicability

- a) The provisions of this Subpart shall apply to all:
- 1) A stationary Stationary reciprocating internal combustion engines enginelisted in Appendix G of this Part—is subject to the requirements of this Subpart—Q.
- 2) Stationary reciprocating internal combustion engines and turbines located at a source that emits or has the potential to emit NOx in an amount equal to or greater than 100 tons per year and is in either the area composed of the Chicago area counties of Cook, DuPage, Kane, Lake, McHenry, and Will, the Townships of Aux Sable and Goose Lake in Grundy County, and the Township of Oswego in Kendall County, or in the area composed of the Metro-East counties of Jersey, Madison, Monroe, and St. Clair, and the Township of Baldwin in Randolph County, where:

- A) The engine at nameplate capacity is rated at equal to or greater than 500 bhp output; or
- B) The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp) output at 14.7 psia, 59°°F and 60 percent relative humidity.
- b) Notwithstanding subsection (a) of this Section, an affected unit is not subject to the requirements of this Subpart Q if the engine or turbine is or has been:
- 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 for associated businesses like packing operations, sale of equipment or repair; or
- 5) An engine with nameplate capacity rated at less than 1,500 bhp (1,118 kW) output, mounted on a chassis or skids, designed to be moveable, and moved to a different source at least once every 12 months.
- 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 or source 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.
- e) Where a construction permit, for which the application was submitted to the Agency prior to the adoption of this Subpart, is issued that relies on decreases in emissions of NOx from existing emission units for purposes of netting or emissions offsets, such NOx decreases shall remain creditable notwithstanding any requirements that may apply to the existing emissions units pursuant to this Subpart.

(Source:	Amended	at	33	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 (edd) of this Section and comply with one of the following: 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 limits 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 sparkignited 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 <u>must compliesycomplies</u> with an emissions averaging plan as provided for in either subsection (b)(1) or (b)(2) of this Section:
- 1) For any affected unit identified by Section 217.386: The the requirements of the applicable emissions averaging plan as set forth in Section 217.390; or
- 2) For units identified in Section 217.386(a)(2): The requirements of an emissions averaging plan adopted pursuant to any other Subpart of this Part. For such affected engines and turbines the applicable requirements of this Subpart apply, including but not limited to, calculation of NOx allowable and actual emissions rates, compliance dates, monitoring, testing, reporting, and recordkeeping.
- c) The owner or operator operates 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  $\frac{\text{SectionsSection}}{\text{Section}}$  217.396(b) and (d). Either the limitation in subsection (c)(1) or (c)(2) may be utilized at a source, but not both:
- 1) The potential to emit (PTE) is no more than 100 TPY NOx 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 NOx PTE limit is contained in a federally enforceable permit; or
- 2) The aggregate bhp-hrs/MW-hrs 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 subsections ubsections (c)(2)(A) and (c)(2)(B) of this Section. For units that drive a natural gas compressor station but that are not located at a natural gas compressor station or storage facility, the operation limits of subsections ubsections (c)(2)(A) and (c)(2)(B)

of this Section must be contained in a federally enforceable permit. The operation limits are:

- 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 <u>must</u> inspects and performs 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:	Amended	at	33	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, 2002 may be included in only oneanone emissions averaging plan, as follows:
- A) Units:
- A) unitsUnits:
- i) Listed in Appendix G and 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; or; or
- ii) Identified in Section 217.386(a)(2), and located at a single source or at multiple sources in either the Chicago area counties or Metro-East area counties, 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.:
- 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 as exempt. For as long as such 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 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(dec) (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 low usage units 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, or by May 1 of the year in which the owner or operator is using a new emissions averaging plan to comply.
- 1) The plan must include, but is not limited to:
- ±A) The list of affected units included in the plan by unit identification number and permit number.
- 2B) A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for both the ozone season and calendar year.
  - 2) The plan will be effective as follows:
- A) An initial plan for units required to comply by January 1,  $\frac{2008,2008}{2008}$  is effective January 1, 2008;
- B) An initial plan for units required to comply by May 1,  $\frac{2010,2010}{}$  is effective May 1, 2010 for those units;
- C) A new plan submitted pursuant to subsection (b) of this Section but not submitted by January 1, 2008 or May 1, 2010 is effective retroactively to January 1 of the applicable year;
- D) An amended plan submitted pursuant to subsection (c) of this Section is effective retroactively to January 1 of the applicable year; or
- E) An amended plan submitted pursuant to subsection (d) of this Section is effective on the date it is received by the Agency.
- c) An owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must include the information from subsection (b)(1) and may change, but is not limited to changing the group of affected units or reflecting changes in the operation of the affected units. An amended plan must be submitted to the Agency by May 1 of the applicable calendar year

and is effective as set forth in subsection (b)(2) of this Section. 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: , must
- 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 <u>ofafter</u> 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), (c), or (d) 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(c)(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 - Nall

Where:

Nact = Nall = Nact = Nall = Nall = Nact = Nall = Na

Nact=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).Nall = 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) = Total mass of allowable NOx emissions in lbs for a unit as determined in subsection (g)(2) or (h)(2) of this Section.EMact(i) = Total mass of actual NOx emissions in lbs for a unit as determined in subsection (g)(1) or (h)(1) of this Section.i = Subscript denoting an individual unit and fuel used.n = 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) x Hi

2) Allowable emissions must be determined as follows:

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

Where:

EMact(i) = Total mass of actual NOx emissions in lbs for a unit, except as provided for in subsections (g)(3) and (g)(5) of this Section. EMall(i) Total mass of allowable NOx emissions in lbs for a unit, except as provided for in subsection (g)(3) of this Section. Actual NOx emission rate (lbs/mmBtu) calculated according to the above equation. Allowable NOx emission rate (lbs/mmBtu) calculated according to the Heat input (mmBtu/ozone season or mmBtu/year) above equation. H =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 runs or monitoring passes performed pursuant to Section 217.394, whichever is higher. 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)(4), (g)(5), or (g)(6) of this Section, if applicable, multiplied by 1.194 x 10-7) on a dry basis for the fuel used. Fd =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, Aappendixappendix A, Method 19 or as determined using 40 CFR 60, Concentration of oxygen in Aappendix A, Method 19. %02d = effluent gas stream measured on a dry basis during each of the applicable tests for determining emissions, as represented by a or monitoring runs used whole number percent, e.g., for 18.7%O2d, 18.7 would be used. Subscript denoting an individual unit and the fuel used. Subscript denoting each test run or monitoring pass for an affected unit The number of test runs or monitoring passes for for a given fuel.m = an affected unit using a given fuel. 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

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)actEMact elec(i)) 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)allEMall elec(i)) 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 (Eall rep) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

#### EMall elec(i) = bhp x OP x F x Eall rep(i)

Where:

EMall 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. Eall 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 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 pPollutant eEmissionPollutant 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.
- 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 shutdownshutshut down, 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 datenon-Appendix G units used in an emissions averaging plandate, 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 datar 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; or
- B) On and after the unit's applicable compliance date pursuant to sectionSection 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) = Total mass of allowable NOx emissions in lbs for a unit.	
<pre>flowi = flowi=Stack flow (dscf/hr) for a given stack.Cdi =</pre>	
Allowable concentration of NOx (ppmv) specified in Section 217.388(a) of thi	is-
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 numb	er
of hours of operation of a unit.i = Subscript denoting an individual u	
and the fuel used.	
(Source: Amended at 33 Ill. Reg. ——, effective —)	

Section 217.392 Compliance

- a) On and after January 1, 2008, 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).
- b) On and after May 1, 2010, an owner or operator of a unit identified by Section 217.386(a)(2), and that 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).
- c) Owners and operators of an affected unit may use NOx allowances to meet the compliance requirements in Section 217.388 as specified belowin this subsection (c). 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 be used only 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 exceedance of an emissions or operating hour limitation;
- B) To achieve compliance for no more than two events in any rolling five-year period; and
  - 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 a NOx allowance for each ton or portion of a ton of NOx by which actual emissions

exceed allowed emissions. Where a low usage limitation under Section 217.388(c)(2) has been exceeded, the owner or operator of the affected unit must calculate the NOx emissions resulting from the number of hours that exceeded the operating hour low usage limit and surrender to the Agency one NOx allowance for each ton or portion of a ton of NOx that was calculated. For noncompliance with a seasonal limit in Section 217.388(b), only a NOx ozone season allowance must be used. For noncompliance with the emissions concentration limits in Section 217.388(a), low usage limitations in Section 217.388(b), only a NOx annual limitation in an emissions averaging plan in Section 217.388(b), 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 limits, the annual emissions averaging plan limits, or low usage limitations. The report must contain the NATS serial numbers of the NOx allowances.

(Source:	Amended at 3	33 Ill.	Req.	, effective	
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Section 217.394 Testing and Monitoring

- a) An owner or operator must conduct an initial performance test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:
- 1) By January 1, 2008, 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 withinWithinwithin the first 876 hours of operation per calendar year, whichever is later:
- A) Performance tests must be conducted on 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. Performance tests must be conducted on
- 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 (ebb)(1), or (ebb)(2), and (b)(3) 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 after 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 within 90 days after 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 included in an emissions averaging plan: The owner or 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 utilizingandand 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 and 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  $A_{7}$  and appendix B, incorporated by reference in Section 217.104, and complies with the quality assurance procedures specified in 40 CFR 60, appendix  $F_{7}$  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.

f) The testing and monitoring requirements of this Section do not apply to affected units in compliance with the requirements of the low usage limitations pursuant to Section 217.388(c) or low usage units using NOx allowances to comply with the requirements of this Subpart pursuant to Section 217.392(c). Notwithstanding the above these circumstances, 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 within 90 days after receipt of a notice to test from the Agency or USEPA.

(Source:	Amended	at 33	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) of an Appendix G unit or a unit included in an emissions averaging plan must maintain records that demonstrate compliance with the requirements of this Subpart Q, which include, but are not limited to:
- 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) (c).
- 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  $NO\times NOX$  allowance reconciliation reports submitted pursuant to Section 217.392(c)(3).
- b) The owner or operator of an affected unit or unit included in an emissions averaging plan must maintain the records required by subsectionsubsection (a) or (d) of this Section, as applicable, 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.
  - c) 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 (b) 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 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  $\frac{3130}{31}$  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;  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left$

- 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 (edc)(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 60.13,60.13 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(c)(3).
- d) 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;
- 2) For each unit complying with Section 217.388(c)(2), maintain a record of bhp or MW \_hours operated each calendar year; and
- 3) For each unit utilizing NOx allowances for compliance pursuant to Section 217.392(c)(3), maintain and submit any NOx allowance reconciliation reports.

(Source:	Amended	at 33	Ill.	Reg.	, effective _	
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POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

Document comparison done by DeltaView on Thursday, October 23, 2008 11:29:48 AM

Input:	
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Document 2	file://X:/RULES/Input/35-217-JCARr01.doc
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Total changes	160			

# 1ST NOTICE VERSION

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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
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10		SUBPART A: GENERAL PROVISIONS
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12	Section	
13	217.100	Scope and Organization
14	217.101	Measurement Methods
15	217.102	Abbreviations and Units
16	217.103	Definitions
17	217.104	Incorporations by Reference
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19		SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES
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21	Section	
22	217.121	New Emission Sources
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37	217.381	Nitric Acid Manufacturing Processes
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65	217.454	Applicability
66	217.456	Compliance Requirements
67	217.458	Permitting Requirements
68	217.460	Subpart U NO <sub>x</sub> Trading Budget
69	217.462	Methodology for Obtaining NO <sub>x</sub> Allocations
70	217.464	Methodology for Determining NO <sub>x</sub> Allowances from the New Source Set-Aside
71	217.466	NO <sub>x</sub> Allocations Procedure for Subpart U Budget Units
72	217.468	New Source Set-Asides for "New" Budget Units
73	217.470	Early Reduction Credits (ERCs) for Budget Units
74	217.472	Low-Emitter Requirements
75	217.474	Opt-In Units
76	217.476	Opt-In Process
77	217.478	Opt-In Budget Units: Withdrawal from NO <sub>x</sub> Trading Program
78	217.480	Opt-In Units: Change in Regulatory Status
79	217.482	Allowance Allocations to Opt-In Budget Units
80		
81		SUBPART V: ELECTRIC POWER GENERATION
82		DODITACE V. EDECTION OF THE CENTER VIEW
83	Section	
84	217.521	Lake of Egypt Power Plant
85	217.700	Purpose
86	217.700	Severability
30	411.104	Dovoradinty

87	217.704	Applicability
88	217.706	Emission Limitations
89	217.708	NO <sub>x</sub> Averaging
90	217.710	Monitoring
91	217.712	Reporting and Recordkeeping
92		
93		SUBPART W: NO <sub>x</sub> TRADING PROGRAM FOR
94		ELECTRICAL GENERATING UNITS
95	<b>a</b>	
96	Section	The state of the s
97	217.750	Purpose
98	217.752	Severability
99	217.754	Applicability
100	217.756	Compliance Requirements
101	217.758	Permitting Requirements
102	217.760	NO <sub>x</sub> Trading Budget
103	217.762	Methodology for Calculating NO <sub>x</sub> Allocations for Budget Electrical Generating
104	017.764	Units (EGUs)
105	217.764	NO <sub>x</sub> 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 <sub>x</sub> Trading Program
111	217.780	Opt-In Units: Change in Regulatory Status
112	217.782	Allowance Allocations to Budget Opt-In Units
113	CIT	DADT V. VOLUMTADV MO EMICCIONIC DEDITOTIONI DDOCDAM
114	SUE	BPART X: VOLUNTARY NO <sub>x</sub> EMISSIONS REDUCTION PROGRAM
115 116	Section	
117	217.800	Durmaga
117	217.800	Purpose Emission Unit Eligibility
119	217.803	Participation Requirements
120	217.815	NO <sub>x</sub> Emission Reductions and the Subpart X NO <sub>x</sub> Trading Budget
121	217.813	Baseline Emissions Determination
122	217.825	Calculation of Creditable NO <sub>x</sub> Emission Reductions
123	217.830	Limitations on NO <sub>x</sub> Emission Reductions
124	217.835	NO <sub>x</sub> Emission Reduction Proposal
125	217.840	Agency Action
126	217.845	Emissions Determination Methods
127	217.850	Emissions Monitoring
128	217.855	Reporting
129	217.860	Recordkeeping
127	217.000	7.000 TOWN OF THE

130	217.865	Enfor	cement
131	O17 ADDEN	IDIX A	Delta lada Cardina Talia
132	217.APPEN		Rule into Section Table
133	217.APPEN		Section into Rule Table
134	217.APPEN		Compliance Dates
135	217.APPEN		Non-Electrical Generating Units
136	217.APPEN		Large Non-Electrical Generating Units
137	217.APPEN		Allowances for Electrical Generating Units
138	217.APPEN	DIX G	Existing Reciprocating Internal Combustion Engines Affected by the NO <sub>x</sub>
139			SIP Call
140			
141		_	ementing Sections 9.9 and 10 and authorized by Sections 27 and 28 of the
142	Environmen	ital Prote	etion Act [415 ILCS 5/9.9, 10, 27 and 28].
143			
144			as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23,
145		-	1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101,
146			978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128,
147			26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001;
148			and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-
149			71, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg.
150	, effe	ective	·
151			
152			SUBPART Q: STATIONARY RECIPROCATING
153		IN	TERNAL COMBUSTION ENGINES AND TURBINES
154	C /: 015	206 4	3° 1 °1°4
155	Section 217	.386 Ap	plicability
156	2)	The	ervisione of this Culturant shall supply to all.
157 158	<u>a)</u>	The pi	rovisions of this Subpart shall apply to all:
		1)	Stationers A stationers regimes eating internal combustion and income air a
159 160		<u>1)</u>	Stationary A stationary reciprocating internal combustion enginesengine listed in Appendix G of this Part is subject to the requirements of this
161			Subpart Q.
162			<del>suopart Q</del> .
163		2)	Stationary reciprocating internal combustion engines and turbines located
164		<u>2)</u>	at a source that emits or has the potential to emit NO <sub>x</sub> in an amount equal
165			
166			to or greater than 100 tons per year and is in either the area composed of
			the Chicago area counties of Cook, DuPage, Kane, Lake, McHenry, and
167 168			Will, the Townships of Aux Sable and Goose Lake in Grundy County, and
169			the Township of Oswego in Kendall County, or in the area composed of the Metro-East counties of Jersey, Madison, Monroe, and St. Clair, and the
170			Township of Baldwin in Randolph County, where:
170			Township of Daldwin in Kandolph County, where.
1/1			

172 173		<u>A)</u>	The engine at nameplate capacity is rated at equal to or greater than 500 bhp output; or
174			inai 500 onp output, of
175		<u>B)</u>	The turbine is rated at equal to or greater than 3.5 MW (4,694 bhp)
176		<u>2</u> )	output at 14.7 psia, 59°F and 60 percent relative humidity.
177			output at 1 point 55 1 and 66 persont relative framework
178	<u>b)</u>	Notwithstandi	ing subsection (a) of this Section, an affected unit is not subject to
179	<u>~7</u>		nts of this Subpart Q if the engine or turbine is or has been:
180			ne of this suspent Q is the ongline of the one is of has been.
181		1) Used a	as an emergency or standby unit as defined by 35 Ill. Adm. Code
182		211.19	<del> </del>
183			<del>,</del>
184		2) Used f	for research or for the purposes of performance verification or
185		testing	
186			u.
187		3) Used t	o control emissions from landfills, where at least 50 percent of the
188			put is gas collected from a landfill;
189			
190		4) Used f	for agricultural purposes, including the raising of crops or livestock
191			e produced on site, but not for associated businesses like packing
192		· · · · · · · · · · · · · · · · · · ·	ions, sale of equipment or repair; or
193		<del></del>	<del> </del>
194		5) An eng	gine with nameplate capacity rated at less than 1,500 bhp (1,118
195			utput, mounted on a chassis or skids, designed to be moveable, and
196		•	to a different source at least once every 12 months.
197			<u> </u>
198	<u>c)</u>	If an exempt u	unit ceases to fulfill the criteria specified in subsection (b) of this
199		Section, the ov	wner or operator must notify the Agency in writing within 30 days
200		after becoming	g aware that the exemption no longer applies and comply with the
201		control require	ements of this Subpart Q.
202			
203	<u>d)</u>	The requireme	ents of this Subpart Q will continue to apply to any engine or turbine
204		that has ever b	een subject to the control requirements of Section 217.388, even if
205		the affected ur	nit or source ceases to fulfill the rating requirements of subsection
206		(a) of this Sect	tion or becomes eligible for an exemption pursuant to subsection (b)
207		of this Section	<u>l.</u>
208			
209	<u>e)</u>	Where a const	ruction permit, for which the application was submitted to the
210			to the adoption of this Subpart, is issued that relies on decreases in
211			NO <sub>x</sub> from existing emission units for purposes of netting or
212			ets, such NO <sub>x</sub> decreases shall remain creditable notwithstanding
213			ents that may apply to the existing emissions units pursuant to this
214		Subpart.	

215			
216 217	(Source	e: An	nended at 33 Ill. Reg, effective)
217	Section 217.3	888 C	ontrol and Maintenance Requirements
219			
220 221 222 223 224 225 226	affected unit in Section and conset forth in su specified in su	must in omply bsection in the contraction in the co	dicable compliance date in Section 217.392, an owner or operator of an aspect and maintain affected units as required by subsection (de) of this with one of the following: either the applicable emissions concentration as on (a) of this Section, or the requirements for an emissions averaging plan as on (b) of this Section, or the requirements for operation as a low usage unit action (c) of this Section.
227 228	a)		owner or operator <u>limitsmust limit</u> the discharge from an affected unit into tmosphere of any gases that contain NO <sub>x</sub> to no more than:
229 230 231 232		1)	150 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for spark-ignited rich-burn engines;
233 234 235		2)	210 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for spark-ignited lean-burn engines, except for existing spark-ignited Worthington engines that are not listed in Appendix G;
236 237 238 239		<u>3)</u>	365 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for existing sparkignited Worthington engines that are not listed in Appendix G;
240 241		<u>4)</u>	660 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for diesel engines;
242 243 244		<u>5)</u>	42 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for gaseous fuel-fired turbines; and
245 246 247		<u>6)</u>	96 ppmv (corrected to 15 percent O <sub>2</sub> on a dry basis) for liquid fuel-fired turbines.
248 249 250	b)		owner or operator compliesmust comply with an emissions averaging plan as ded for in either subsection (b)(1) or (b)(2) of this Section:
251 252 253 254		1)	For any affected unit identified by Section 217.386: Thethe requirements of the applicable emissions averaging plan as set forth in Section 217.390; or-
255 256 257		<u>2)</u>	For units identified in Section 217.386(a)(2): The requirements of an emissions averaging plan adopted pursuant to any other Subpart of this Part. For such affected engines and turbines the applicable requirements

258		of this Subpart apply, including, but not limite
259		allowable and actual emissions rates, complia
260		testing, reporting, and recordkeeping.
261		
262	c)	The owner or operator operates the affected unit as a
263		subsection (c)(1) or (c)(2) of this Section. Low usage
264		requirements of this Subpart Q except for the require
265		maintain the unit pursuant to subsection (d) of this Se
266		pursuant to Section 217.396(b) and (d). Either the lin
267		or (c)(2) may be utilized at a source, but not both:
268		
269		1) The potential to emit (PTE) is no more than 1
270		from all engines and turbines located at the so
271		exempt pursuant to Section 217.386(b), and n
272		requirements of subsection (a) or (b) of this S
273		limit is contained in a federally enforceable pe
274		
275		2) The aggregate bhp-hrs/MW-hrs from all affect
276		source that are not exempt pursuant to Section
277		complying with the requirements of subsection
278		are less than or equal to the bhp-hrs and MW-
279		subsections (c)(2)(A) and (c)(2)(B) of this Sec
280		natural gas compressor station but that are not
281		compressor station or storage facility, the ope
282		(c)(2)(A) and (c)(2)(B) of this Section must be
283		enforceable permit. The operation limits are:
284		<u> </u>
285		A) 8 mm bhp-hrs or less on an annual bas
286		11/ O 01/p 110 01 1000 011 WII WIII WAR
287		B) 20,000 MW-hrs or less on an annual b
288		20,000 11211 1110 01 1000 011 411 41111441 0
289	<u>d)</u>	The owner or operator inspectsmust inspect and perfo
290	<u>u</u> ,	maintenance on the affected unit, in accordance with
291		documents:
292		documents.
293		1) For a unit not located at natural gas transmissi
294		storage facility, either:
295		storage facility, entiter.
296		A) The manufacturer's recommended insp
290 297		the applicable air pollution control equ
298		and affected unit; or
298		and affected unit, of
<b>4</b> 77		

ed to, calculation of NO<sub>x</sub> nce dates, monitoring,

- low usage unit pursuant to e units are not subject to the ments to inspect and ection, and retain records nitation in subsection (c)(1)
  - 00 TPY NO<sub>x</sub> aggregated urce that are not otherwise ot complying with the ection, and the NO<sub>x</sub> PTE ermit; or
  - ted units located at the n 217.386(b), and not on (a) or (b) of this Section, hrs operation limit listed in ction. For units that drive a t located at a natural gas ration limits of subsections e contained in a federally
    - is for engines; and
    - asis for turbines.
- orms<del>perform</del> periodic a Maintenance Plan that
  - on compressor station or
    - pection and maintenance of ipment, monitoring device,

300 301 302 303 304 305 306		]	В)	If the original equipment manual is not available or substantial modifications have been made that require an alternative procedur 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.	y
307		<b>a</b> \ 1	_		
308				unit located at a natural gas compressor station or storage facility,	
309 310				erator's maintenance procedures for the applicable air pollution levice, monitoring device, and affected unit.	
311				, , , , , , , , , , , , , , , , , , , ,	
312	(Source	: Amen	ided at	t 33 Ill. Reg, effective)	
313	Section 217 20	n Emis	ciona	Avonaging Dlang	
314 315	Section 217.39	v Emis	SIOUS	Averaging Plans	
316	a) .	An own	ar ar a	operator of certain affected units may comply through an emissions	
317	•	averagir		· · · · · · · · · · · · · · · · · · ·	į
318	•	avcıagıı	ig hian	1.	
319		1)	The un	nit or units that commenced operation before January 1, 2002, may	
320		•		luded in only onean emissions averaging plan, as follows:	
321		`	o mon	adda in <u>only one</u> an emissions averaging plan, as lonews.	
322		,	<u>A)</u>	Units:units	
323		=		<u></u>	
324				i) Listed in Appendix G and located at a single source or at	
325				multiple sources in Illinois, so long as the units are owned	
326				by the same company or parent company where the parent	
327				company has working control through stock ownership of	
328				its subsidiary corporations; or. A unit may be listed in onl	
329				one emissions averaging plan.	-
330					
331				ii) Identified in Section 217.386(a)(2), and located at a single	<u>;</u>
332				source or at multiple sources in either the Chicago area	
333				counties or Metro-East area counties, so long as the units	
334				are owned by the same company or parent company where	≘
335				the parent company has working control through stock	
336				ownership of its subsidiary corporations;	
337					
338		<u>I</u>		Units that have a compliance date later than the control period for	
339				which the averaging plan is being used for compliance; and	
340					
341		9		Units which the owner or operator may claim as exempt pursuant	
342				to Section 217.386(b) but does not claim as exempt. For as long a	<u>1S</u>

343 344 345 346 347				such 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.
348 349		2)		ollowing types of units may not be included in an emissions ging plan:
350			ع ۱۹۰۰	
351			<u>A)</u>	Unitsunits that commence operation after January 1, 2002, unless
352			<u>/</u>	the unit replaces an engine or turbine that commenced operation on
353				or before January 1, 2002, or it replaces an engine or turbine that
354				replaced a unit that commenced operation on or before January 1,
355				2002. The new unit must be used for the same purpose as the
356				replacement unit. The owner or operator of a unit that is shutdown
357				and replaced must comply with the provisions of Section
358				217.396( <u>cd</u> )(3) before the replacement unit may be included in an
359				emissions averaging plan.
360				chinosions averaging plan.
361			<u>B)</u>	Units which the owner or operator is claiming are exempt pursuant
362			<u>D)</u>	to Section 217.386(b) or as low usage units pursuant to Section
363				217.388(c).
364				<u>217.300(U).</u>
365	b)	An ow	mer or c	operator must submit an emissions averaging plan to the Agency by
366	0)			compliance date set forth in Section 217.392, or by May 1 of the
367				the owner or operator is using a new emissions averaging plan to
368		comply		the owner of operator is using a new emissions averaging plan to
369		compi	Σ.	
370		1)	The nl	an must include, but is not limited to:
371		<u> </u>	The pr	an mast morado, but is not immed to.
372			<u>A</u> 1)	The list of affected units included in the plan by unit identification
373			<u> </u>	number and permit number.
374				namos and permit namos.
375			B2)	A sample calculation demonstrating compliance using the
375 376			<u>B</u> 2)	A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for both the
376			<u>B</u> 2)	methodology provided in subsection (f) of this Section for both the
376 377			<u>B</u> 2)	· · · · · · · · · · · · · · · · · · ·
376 377 378		2)		methodology provided in subsection (f) of this Section for both the ozone season and calendar year.
376 377 378 379		<u>2)</u>		methodology provided in subsection (f) of this Section for both the
376 377 378 379 380		<u>2)</u>	The pl	methodology provided in subsection (f) of this Section for both the ozone season and calendar year.  an will be effective as follows:
376 377 378 379 380 381		<u>2)</u>		methodology provided in subsection (f) of this Section for both the ozone season and calendar year.  an will be effective as follows:  An initial plan for units required to comply by January 1, 2008 is
376 377 378 379 380 381 382		<u>2)</u>	The pl	methodology provided in subsection (f) of this Section for both the ozone season and calendar year.  an will be effective as follows:
376 377 378 379 380 381 382 383		<u>2)</u>	<u>The pl</u> <u>A)</u>	methodology provided in subsection (f) of this Section for both the ozone season and calendar year.  an will be effective as follows:  An initial plan for units required to comply by January 1, 2008 is effective January 1, 2008;
376 377 378 379 380 381 382		<u>2)</u>	The pl	methodology provided in subsection (f) of this Section for both the ozone season and calendar year.  an will be effective as follows:  An initial plan for units required to comply by January 1, 2008 is

386			
387		<u>C)</u>	A new plan submitted pursuant to subsection (b) of this Section but
388			not submitted by January 1, 2008 or May 1, 2010 is effective
389			retroactively to January 1 of the applicable year;
390			
391		<u>D)</u>	An amended plan submitted pursuant to subsection (c) of this
392			Section is effective retroactively to January 1 of the applicable
393			year; or
394			
395		<u>E)</u>	An amended plan submitted pursuant to subsection (d) of this
396			Section is effective on the date it is received by the Agency.
397			, <u>, , , , , , , , , , , , , , , , , , </u>
398	c)	An owner or o	perator may amend an emissions averaging plan only once per
399		calendar year.	An amended plan must include the information from subsection
400		(b)(1) and may	y change, but is not limited to changing, the group of affected units
401		or reflecting c	hanges in the operation of the affected units. An amended plan
402			itted to the Agency by May 1 of the applicable calendar year and is
403			t forth in subsection (b)(2) of this Section. If an amended plan is
404			y the Agency by May 1 of the applicable calendar year, the
405			s plan will be the applicable emissions averaging plan.
406		•	
407	d)	Notwithstandi	ng subsection (c) of this Section, an owner or operator, and the
408	,	buyer, if appli	
409			-
410		<u>1)</u> <u>Must</u> s	submit an updated emissions averaging plan or plans to the Agency
411			60 days, if a unit that is listed in an emissions averaging plan is sold
412			en out of service.
413			
414		2) May a	mend its emissions averaging plan to include another unit within 30
415			fter discovering that the unit no longer qualifies as an exempt unit
416			nt to Section 217.386(b) or as a low usage unit pursuant to Section
417		217.38	· · · · · · · · · · · · · · · · · · ·
418			
419	e)	An owner or o	perator must:
420			•
421		1) Demor	nstrate compliance for both the ozone season (May 1 through
422		,	nber 30) and the calendar year (January 1 through December 31) by
423		<del>-</del>	he methodology and the units listed in the most recent emissions
424		_	ing plan submitted to the Agency pursuant to subsection (b), (e), or
425			this Section; the higher of the monitoring or test data determined
426			nt to Section 217.394; and the actual hours of operation for the
427		_	able control period;
428		* *	•

129 130		tify the Agency by October 31 following the ozone season, if appliance cannot be demonstrated for that ozone season; and
431 432 433 434	con	omit to the Agency by January 31 following each calendar year, a appliance report containing the information required by Section 7.396(c)(4).
435 436 f) 437 438 439	averaging pemissions	hass of actual $NO_x$ emissions from the units listed in the emissions plan must be equal to or less than the total mass of allowable $NO_x$ for those units for both the ozone season and calendar year. The equation must be used to determine compliance:
141		$N_{act} \leq N_{all}$
142		u.
143 144	Where:	
145	$N_{act}$	$=\sum_{i=1}^{n} EM_{act(i)}$
146		
147	$N_{\text{all}}$	$=\sum_{i=1}^{n}EM_{all(i)}$
148	$N_{act}$	= Total sum of the actual NO <sub>x</sub> 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 <sub>x</sub> 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) or (h)(2) of this Section.
	$EM_{\text{act(i)}}$	= Total mass of actual NO <sub>x</sub> emissions in lbs for a unit as determined in subsection (g)(1) or (h)(1) of this Section.
	i	= Subscript denoting an individual unit and fuel used.
	n	= Number of different units in the averaging plan.
149		
950 g) 951 952 953	and allowal	nit in the averaging plan, and each fuel used by a unit, determine actuable NO <sub>x</sub> emissions using the following equations, except as provided ection (h) of this Section:

= Actual NO<sub>x</sub> emission rate (lbs/mmBtu) calculated according

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

emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(4), (g)(5), or (g)(6) of this Section, if applicable, multiplied by 1.194 x 10<sup>-7</sup>) on

= Allowable NO<sub>x</sub> emission rate (lbs/mmBtu) calculated

C<sub>d(act)</sub> = Actual concentration of NO<sub>x</sub> in lb/dscf (ppmv x 1.194 x10<sup>-7</sup>) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test <u>runs<del>run</del></u> or monitoring passes<del>pass</del> performed pursuant to Section

 $C_{d(all)}$  = Allowable concentration of NO<sub>x</sub> in lb/dscf (allowable

to the above equation.

according to the above equation.

217.394, whichever is higher.

a dry basis for the fuel used.

Actual emissions must be determined as follows: 454 1) 455  $EM_{act(i)} = E_{act(i)} \times H_i$ 456 457  $E_{act(i)} = \frac{\sum_{j=1}^{m} C_{d(act(j))} \times F_d \times \left(\frac{20.9}{20.9 - \% O_{2d(j)}}\right)}{\frac{1}{20.9 - \% O_{2d(j)}}}$ 458 459 460 2) Allowable emissions must be determined as follows: 461 462  $EM_{all(i)} = E_{all(i)} \times H_i$ 463  $E_{all(i)} = \frac{\sum_{j=1}^{m} C_{d(all(j))} \times F_{d} \times \left(\frac{20.9}{20.9 - \%O_{2d(j)}}\right)}{m}$ 464 465 466 Where: 467 EM<sub>act(i)</sub>= Total mass of actual NO<sub>x</sub> emissions in lbs for a unit, except as provided for in subsections (g)(3) and (g)(5) of this Section. EM<sub>all(i)</sub> = Total mass of allowable NO<sub>x</sub> emissions in lbs for a unit, except as provided for in subsection (g)(3) of this Section.

 $E_{act}$ 

 $E_{all}$ 

Η

- F<sub>d</sub> = 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 Appendix A, Method 19 or as determined using 40 CFR 60, appendix Appendix A, Method 19.
- %O<sub>2d</sub> = Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable <u>teststest</u> or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O<sub>2d</sub>, 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.
- For a replacement unit that is electric-powered, the allowable NO<sub>x</sub> emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO<sub>x</sub> emissions for the electric-powered replacement unit (EM<sub>(i)act elec(i)</sub>) are zero. Allowable NO<sub>x</sub> 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<sub>x</sub> emission rate in lb/bhp-hr of the replaced unit. The allowable mass of NO<sub>x</sub> emissions from an electric-powered replacement unit (EM<sub>(i)all elec(i)</sub>) 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<sub>x</sub> emission rate of the replaced unit (E<sub>all rep</sub>) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

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

#### Where:

- $EM_{all\ elec(i)}$  = Mass of allowable  $NO_x$  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.

= Conversion factor of 0.0077 mmBtu/bhp-hr.

		E <sub>all rep(i)</sub> = Allowable NO <sub>X</sub> emission rate (lbs/mmBtu) of the replaced unit.
		i = Subscript denoting an individual electric unit and the fuel used.
487		
488	4)	For a replacement unit that is not electric, the allowable NO <sub>x</sub> emissions
489		rate used in the above equations set forth in subsection (g)(2) of this
490		Section must be the higher of the actual NO <sub>x</sub> emissions as determined by
491		testing or monitoring data or the applicable uncontrolled NO <sub>x</sub> emissions
492		factor from Compilation of Air Pollutant Emissionpollutant emission
493		Factors: AP-42, Volume I: Stationary Point and Area Sources, as
494		incorporated by reference in Section 217.104 for the unit that was
495		replaced.
496		
497	5)	For a unit that is replaced with purchased power, the allowable NO <sub>x</sub>
498		emissions rate used in the above equations set forth in subsection (g)(2) of
499		this Section must be the emissions concentration as set forth in Section
500		217.388(a) or subsection (g)(6) of this Section, when applicable, for the
501		type of unit that was replaced. For owners or operators replacing units
502		with purchased power, the annual hours of operations that must be used
503		are the calendar year hours of operation for the unit that was shut
504		downshutdown, averaged over the three-year period prior to the shutdown.
505		The actual NO <sub>x</sub> emissions for the units replaced by purchased power
506		(EM <sub>(i)act</sub> ) are zero. These units may be included in any emissions
507		averaging plan for no more than five years beginning with the calendar
508		year that the replaced unit is shut down.
509		
510	6)	For units that have a later compliance datenon Appendix G units used in
511	·	an emissions averaging plan, allowable emissions rate used in the above
512		equations set forth in subsection (g)(2) of this Section must be:
513		<u>-</u>
514		A) Prior to the applicable compliance date pursuant to Section
515		217.392, the higher of the actual NO <sub>x</sub> emissions as determined by
516		testing or monitoring data, or the applicable uncontrolled NO <sub>x</sub>
517		emissions factor from Compilation of Air Pollutant Emission
518		Factors: AP-42, Volume I: Stationary Point and Areas Sources, as
519		incorporated by reference in Section 217.104; or)
520		• •
521		B) On and after the unit's applicable compliance date pursuant to
522		Section 217.392, the applicable emissions concentration for that
523		type of unit pursuant to Section 217.388(a).
524		

F

525	n)	For units that use CEMS, the data must show that the total mass of actual $NO_x$
526		emissions determined pursuant to subsection (h)(1) of this Section is less than or
527		equal to the allowable NO <sub>x</sub> emissions calculated in accordance with the equations
528		in subsections (f) and (h)(2) of this Section for both the ozone season and calendar
529		year. The equations in subsection (g) of this Section will not apply.
530		(g) on the control of
531		1) The total mass of actual NO <sub>x</sub> emissions in lbs for a unit (EM <sub>act</sub> ) must be
532		the sum of the total mass of actual NO <sub>x</sub> emissions from each affected unit
533		using CEMS data collected in accordance with 40 CFR 60 or 75, or
534		alternate methodology that has been approved by the Agency or USEPA
535		and included in a federally enforceable permit.
536		F
537		2) The allowable NO <sub>x</sub> emissions must be determined as follows:
538		
		<u>_m</u>
539		$EM_{all(i)} = \sum_{j=1}^{m} (Cd_i \times flow_i \times 1.194 \times 10^{-7})$
		j=1
540		
541		
<b>.</b>		$\sum_{i=1}^{m} (G_i - G_i) = 1 \cdot 104 \cdot 10^{-7}$
542		$EM_{all(i)} = \sum_{j=1}^{m} (Cd_i \times flowstack_i \times 1.194 \times 10^{-7})$
5.42		j=1
543		<b>1171</b>
544		Where:
545		EM = Total mass of allowable NO emissions in the for a unit
		$EM_{all(i)}$ = Total mass of allowable NO <sub>x</sub> emissions in lbs for a unit.
		$\underline{\text{flow}}\underline{\text{Flow}}_{i} = \text{Stack flow (dscf/hr) for a given stack.}$
		$Cd_i$ = Allowable concentration of $NO_x$ (ppmv) specified in Section
		217.388(a) of this subpart for a given stack. $(1.194 \times 10^{-7})$
		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.
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547	(Source	e: Amended at 33 Ill. Reg, effective)
548	(Bothe	o. Timonada at 33 m. 106, onconvo
549	Section 217 3	92 Compliance
550	Section 217.3	22 Comphane
551	<u>a)</u>	On and after January 1, 2008, an owner or operator of an affected engine listed in
552	<u>⇔</u> ,	Appendix G may not operate the affected engine unless the requirements of this
553		Subpart Q are met or the affected engine is exempt pursuant to Section
554		217.386(b).
555		<u> </u>
,,,		

556 b) On and after May 1, 2010, an owner or operator of a unit identified by Section 217.386(a)(2), and that is not listed in Appendix G, may not operate the affected unit unless the requirements of this Subpart O are met or the affected unit is exempt pursuant to Section 217.386(b).  C) Owners and operators of an affected unit may use NO, allowances to meet the compliance requirements in Section 217.388 as specified in this subsection (c). NO, allowance is defined as an allowance used to meet the requirements of a No trading program administered by USEPA where one allowance is equal to one to of NO, emissions.  A) An anomalous or unforeseen operating scenario inconsistent with historical operations for a particular ozone season or calendar yea that causes an exceedance of an emissions or operating hour limitation;  B) To achieve compliance for no more than two events in any rolling five-year period; and  C) For a unit that is not listed in Appendix G.  C) For a unit that is not listed in Appendix G.  C) For a unit that is not listed in Appendix G.  The owner or operator of the affected unit must surrender to the Agency NO, allowance for each ton or portion of a ton of NO, by which actual emissions exceed allowed emissions. Where a low usage limitation unde Section 217.388(c)(2) has been exceeded, the owner or operator of the Agency one NO, allowance for each ton or portion of a ton of NO, by which actual emissions exceed allowed emissions concentration in section 217.388(b), only a NO, allowance for each ton or portion of a ton of NO, that was calculated. For noncompliance with a easonal limit in Section 217.388(b), only a NO, annual allowance may be used.  The owner or operator must submit a report documenting the circumstances that required the use of NO, allowances and identify what actions will be taken in subsequent years to address these circumstances and must transfer the NO, allowances to the Agency's federal NO, retirement account. The report and the transfer of allowance sorumstances and must transf					
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<u> </u>	598				ted by October 31 for exceedances during the ozone season and

599			Marc	ch 1 for exceedances of the emissions concentration limits, the annual
600			emis	sions averaging plan limits, or low usage limitations. The report must
601			conta	ain the NATS serial numbers of the NO <sub>x</sub> allowances.
602				
603	(Sour	ce: An	ended	at 33 Ill. Reg, effective)
604				
605	Section 217.3	394 Te	sting a	and Monitoring
606				
607	a)			operator must conduct an initial performance test pursuant to
608		subse	ction (d	c)(1) or (c)(2) of this Section as follows:
609				
610		1)	By Ja	anuary 1, 2008, for affected engines listed in Appendix G.
611			Perfo	ormance tests must be conducted on units listed in Appendix G, even
612			if the	e unit is included in an emissions averaging plan pursuant to Section
613			217.3	388(b).
614				
615		2)	By th	ne applicable compliance date set forth in Section 217.392, or
616			<u>withi</u>	in Within the first 876 hours of operation per calendar year, whichever
617			<u>is lat</u>	<u>er:</u> -
618				
619			<u>A</u> )	For affected units not listed in Appendix G that operate more than
620 621				876 hours per calendar year; and Performance tests must be conducted on
622				<del>conducted on</del>
623			D)	For units that are not affected units that are included in an
624			<u>B)</u>	
				emissions averaging plan and operate more than 876 hours per
625				calendar year.
626 627		2)	Once	stricthin the five trees named often the applicable compliance date of
		3)		within the five-year period after the applicable compliance date as
628 629			set it	orth in Section 217.392 <u>:</u>
630			۸)	For affected units that operate fewer than 876 hours per calendar
631			<u>A)</u>	year; and. Performance tests must be conducted on
632				year, and: 1 errormance tests must be conducted on
633			<u>B)</u>	For units that are not affected units that are included in an
634			נט	emissions averaging plan and that operate fewer than 876 hours per
635				calendar year.
636				calcildar year.
637	b)	An or	vner or	operator of an engine or turbine must conduct subsequent
638	0)			tests pursuant to subsection (be)(1), or (be)(2), and (b)(3) of this
639			n as fo	
640		Socie	,11 ab 10	-110 TT D.

incorporated by reference in Section 217.104, or a method approved by

641 642		1)	For affected engines listed in Appendix G and all units included in an
643			emissions averaging plan, once every five years. Testing must be
			performed in the calendar year by May 1 or within 60 days after starting
644			operation, whichever is later;
645		2)	Teals as a six and data absent that the same is a set in a security of a
646		2)	If the monitored data shows that the unit is not in compliance with the
647			applicable emissions concentration or emissions averaging plan, the owner
648			or operator must report the deviation to the Agency in writing within 30
649			days and conduct a performance test pursuant to subsection (c) of this
650			Section within 90 days of the determination of noncompliance; and
651		- \	
652		3)	When, in the opinion of the Agency or USEPA, it is necessary to conduct
653			testing to demonstrate compliance with Section 217.388, the owner or
654			operator of a unit must, at his or her own expense, conduct the test in
655			accordance with the applicable test methods and procedures specified in
656			this Section within 90 days after receipt of a notice to test from the
657			Agency or USEPA.
658			
659	c)	Testi	ng Procedures:
660			
661		1)	For an engine: The owner or operator must conduct a performance test
662		•	using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by
663			reference in Section 217.104. Each compliance test must consist of three
664			separate runs, each lasting a minimum of 60 minutes. NO <sub>x</sub> emissions must
665			be measured while the affected unit is operating at peak load. If the unit
666			combusts more than one type of fuel (gaseous or liquid), including backup
667			fuels, a separate performance test is required for each fuel.
668			, r r
669		2)	For a turbine included in an emissions averaging plan: The owner or
670		,	operator must conduct a performance test using the applicable procedures
671			and methods in 40 CFR 60.4400, as incorporated by reference in Section
672			217.104.
673			<del></del>
674	d)	Moni	itoring: Except for those years in which a performance test is conducted
675	۳)		ant to subsection (a) or (b) of this Section, the owner or operator of an
676		-	ted unit or a unit included in an emissions averaging plan must monitor $NO_x$
677			entrations annually, once between January 1 and May 1 or within the first
678			nours of operation per calendar year, whichever is later. If annual operation
679			s than 876 hours per calendar year, each affected unit must be monitored at
680			once every five years. Monitoring must be performed as follows:
		icast	once every rive years. Womboring must be periorined as follows:
681		1)	A newtoble NIO menitor and utilizing
682		1)	A portable NO <sub>x</sub> monitor and utilizing method ASTM D6522-00, as

683

684 685 686		the Agency must be used. If the engine or turbine combusts both liquid and gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.
687		
688		2) NO <sub>x</sub> and O <sub>2</sub> concentrations measurements must be taken three times for a
689		duration of at least 20 minutes. Monitoring must be done at highest
690		achievable load. The concentrations from the three monitoring runs must
691		be averaged to determine whether the affected unit is in compliance with
692		the applicable emissions concentration or emissions averaging plan, as
693		specified in Section 217.388.
694		•
695	e)	Instead of complying with the requirements of subsections (a), (b), (c) and (d) of
696	,	this Section, an owner or operator may install and operate a CEMS on an affected
697		unit that meets the applicable requirements of 40 CFR 60, subpart A <sub>7</sub> and
698		appendix B, incorporated by reference in Section 217.104, and complies with the
699		quality assurance procedures specified in 40 CFR 60, appendix F <sub>7</sub> or 40 CFR 75,
700		as incorporated by reference in Section 217.104, or an alternate procedure as
701		approved by the Agency or USEPA in a federally enforceable permit. The CEMS
702		must be used to demonstrate compliance with the applicable emissions
703		concentration or emissions averaging plan only on an ozone season and annual
704		basis.
705		
706	$\underline{\mathbf{f}}$	The testing and monitoring requirements of this Section do not apply to affected
707		units in compliance with the requirements of the low usage limitations pursuant to
708		Section 217.388(c) or low usage units using NO <sub>x</sub> allowances to comply with the
709		requirements of this Subpart pursuant to Section 217.392(c). Notwithstanding
710		these circumstances, when, in the opinion of the Agency or USEPA, it is
711		necessary to conduct testing to demonstrate compliance with Section 217.388, the
712		owner or operator of a unit must, at his or her own expense, conduct the test in
713		accordance with the applicable test methods and procedures specified in this
714		Section within 90 days after receipt of a notice to test from the Agency or
715		<u>USEPA.</u>
716	(C	A
717	(Sourc	e: Amended at 33 Ill. Reg, effective)
718	Continu 217.2	06 Decording and Depositing
719	Section 217.3	96 Recordkeeping and Reporting
720 721	a)	Recordkeeping. The owner or operator of a unit included in an emissions
721	a)	averaging plan or an affected unit that is not exempt pursuant to Section
723		217.386(b) and is not subject to the low usage exemption of Section 217.388(c) of
724		an Appendix G unit or a unit included in an emissions averaging plan must
725		maintain records that demonstrate compliance with the requirements of this
726		Subpart Q, which include, but are not limited to:
120		Suspent X1 which morade, but are not infined to.

727					
728		1)	Identification, type (e.g., lean-burn, gas-fired), and location of each unit.		
729					
730		2)	Calendar date of the record.		
731		·			
732		3)	The number of hours the unit operated on a monthly basis, and during		
733		,	each ozone season.		
734					
735		4)	Type and quantity of the fuel used on a daily basis.		
736		,	31 1		
737		5)	The results of all monitoring performed on the unit and reported		
738		- /	deviations.		
739					
740		6)	The results of all tests performed on the unit.		
741		-,	F		
742		7)	The plan for performing inspection and maintenance of the units, air		
743		.,	pollution control equipment, and the applicable monitoring device		
744			pursuant to Section 217.388(d)(e).		
745			parsuant to 500000 217.500( <u>a)</u> (0).		
746		8)	A log of inspections and maintenance performed on the unit's air		
747		٠,	emissions, monitoring device, and air pollution control device. These		
748			records must include, at a minimum, date, load levels and any manual		
749			adjustments, along with the reason for the adjustment (e.g., air to fuel		
750			ratio, timing or other settings).		
751			ratio, animg or outer settings).		
752		9)	If complying with the emissions averaging plan provisions of Sections		
753		7)	217.388(b) and 217.390, copies of the calculations used to demonstrate		
754			compliance with the ozone season and annual control period limits,		
755			noncompliance reports for the ozone season, and ozone and annual control		
756			period compliance reports submitted to the Agency.		
757			ported compilation reports submitted to the rigology.		
758		10)	Identification of time periods for which operating conditions and pollutant		
759		10)	data were not obtained by either the CEMS or alternate monitoring		
760			procedures, including the reasons for not obtaining sufficient data and a		
761			description of corrective actions taken.		
762			description of corrective actions taxen.		
763		<u>11)</u>	Any No <sub>x</sub> allowance reconciliation reports submitted pursuant to Section		
764		11)	217.392(c)(3).		
765			<u> </u>		
766	b)	The	vner or operator of an affected unit or unit included in an emissions		
767	<i>U)</i>		<u>-</u>		
767 768		averaging plan must maintain the records required by subsection (a) or (d) of this Section, as applicable, for a period of five years at the source at which the unit is			
700		Section	i, as applicable, 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.

## c) 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 (b) 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 NO<sub>x</sub> 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 <u>3130</u> following the applicable calendar year, the owner or operator must submit to the Agency a report that demonstrates the following:

811 812			i)	For all units that are part of the emissions averaging plan, the total mass of allowable NO <sub>x</sub> emissions for the ozone	
813				season and for the annual control period;	
814				season and for the annual control period,	
815			ii)	The total mass of actual NO <sub>x</sub> emissions for the ozone	
816			11)	season and annual control period for each unit included in	
817				the averaging plan;	
818				the averaging plan,	
819			iii)	The calculations that demonstrate that the total mass of	
820			111)	actual NO <sub>x</sub> emissions are less than the total mass of	
821				allowable NO <sub>x</sub> emissions using equations in Sections	
822				217.390(f) and (g); and	
823				217.350(1) and (g), and	
824			iv)	The information required to determine the total mass of	
825				actual NO <sub>x</sub> emissions and the calculations performed in	
826				subsection ( <u>cd</u> )(4)(B)(iii) of this Section.	
827					
828		5)	If operating a	CEMS, the owner or operator must submit an excess	
829			emissions and	monitoring systems performance report in accordance with	
830			the requiremen	nts of 40 CFR 60.7(c) and 60.13, or 40 CFR 75, incorporated	
831			by reference in	a Section 217.104, or an alternate procedure approved by the	
832			Agency or US	EPA and included in a federally enforceable permit.	
833					
834		<u>6)</u>	If using NO <sub>x</sub> a	Illowances to comply with the requirements of Section	
835			217.388, recor	nciliation reports as required by Section 217.392(c)(3).	
836					
837	<u>d)</u>	The ov	vner or operator	r of an affected unit that is complying with the low usage	
838		provisi	ons of Section	217.388(c) must:	
839					
840	<u>1)</u>		For each unit complying with Section 217.388(c)(1), maintain a record of		
841			the NO <sub>x</sub> emiss	ions for each calendar year;	
842					
843		<u>2)</u>	For each unit of	complying with Section 217.388(c)(2), maintain a record of	
844			bhp or MW-ho	ours operated each calendar year; and	
845					
846		<u>3)</u>	For each unit u	utilizing NO <sub>x</sub> allowances for compliance pursuant to Section	
847			217.392(c)(3),	maintain and submit any NO <sub>x</sub> allowance reconciliation	
848			reports.		
849					
850	(Source: Amended at 33 Ill. Reg, effective)				