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ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENT

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

<u>Section Numbers:</u>	<u>Adopted Action:</u>
211.740	New Section
211.1740	New Section
211.1920	Amended
211.3300	New Section
211.5640	New Section
- 4) Statutory Authority: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5].
- 5) Effective Date of Amendments: SEP 25 2007
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Do these amendments contain incorporations by reference? Yes
- 8) The adopted amendments, including any material incorporated by reference, are on file in the Board's Chicago office at the James R. Thompson Center, 100 W. Randolph, Suite 11-500 and are available for public inspection.
- 9) Notice of Proposal Published in Illinois Register:  
May 4, 2007; 31 Ill. Reg. 6578
- 10) Has JCAR issued a Statement of Objections to these amendments? No
- 11) Differences between proposal and final version:  
No changes were made to the first notice text.
- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements letter issued by JCAR? Yes
- 13) Will these amendments replace emergency amendments currently in effect? No
- 14) Are there any amendments pending on this Part? Yes

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NOTICE OF ADOPTED AMENDMENT

<u>Section Number</u>	<u>Proposed Action</u>	<u>Illinois Register publication</u>
211.1740	New Section	June 8, 2007; 31 Ill. Reg. 7683
211.1920	Amended	June 8, 2007; 31 Ill. Reg. 7683

15) Summary and Purpose of Amendments:

For a more detailed discussion of these amendments, see the Board's September 20, 2007 opinion and order in docket R07-18. These adopted amendments are intended to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.* Specifically, the amendments satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Phase II of the United States Environmental Protection Agency's (USEPA's) nitrogen oxides (NO<sub>x</sub>) State Implementation Plan (SIP) call. The NO<sub>x</sub> SIP call required affected states, including Illinois, to regulate NO<sub>x</sub> emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA). 69 Fed. Reg. 21604 (April 21, 2004). The rulemaking adopts amendments to Parts 211 and 217.

Specifically, the amendments to Part 211 add new definitions to the Board's air regulations and amend another definition to clarify the substantive amendments found in Part 217.

16) Information and questions regarding these adopted amendments shall be directed to:

Tim Fox  
Illinois Pollution Control Board  
100 W. Randolph 11-500  
Chicago, IL 60601  
312-814-6085

Copies of the Board's opinions and orders may be requested from the Clerk of the Board at the address listed in #8 above or by calling 312/814-3620. Please refer to the Docket number R07-18 in your request. The Board order is also available from the Board's Web site ([www.ipcb.state.il.us](http://www.ipcb.state.il.us))

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

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POLLUTION CONTROL BOARD

NOTICE OF ADOPTED AMENDMENT

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

PART 211  
DEFINITIONS AND GENERAL PROVISIONS

SUBPART A: GENERAL PROVISIONS

Section	
211.101	Incorporations by Reference
211.102	Abbreviations and Conversion Factors

SUBPART B: DEFINITIONS

Section	
211.121	Other Definitions
211.122	Definitions (Repealed)
211.130	Accelacota
211.150	Accumulator
211.170	Acid Gases
211.210	Actual Heat Input
211.230	Adhesive
211.240	Adhesion Promoter
211.250	Aeration
211.270	Aerosol Can Filling Line
211.290	Afterburner
211.310	Air Contaminant
211.330	Air Dried Coatings
211.350	Air Oxidation Process
211.370	Air Pollutant
211.390	Air Pollution
211.410	Air Pollution Control Equipment
211.430	Air Suspension Coater/Dryer
211.450	Airless Spray
211.470	Air Assisted Airless Spray
211.474	Alcohol
211.479	Allowance

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211.484	Animal
211.485	Animal Pathological Waste
211.490	Annual Grain Through-Put
211.495	Anti-Glare/Safety Coating
211.510	Application Area
211.530	Architectural Coating
211.550	As Applied
211.560	As-Applied Fountain Solution
211.570	Asphalt
211.590	Asphalt Prime Coat
211.610	Automobile
211.630	Automobile or Light-Duty Truck Assembly Source or Automobile or Light-Duty Truck Manufacturing Plant
211.650	Automobile or Light-Duty Truck Refinishing
211.660	Automotive/Transportation Plastic Parts
211.670	Baked Coatings
211.680	Bakery Oven
211.685	Basecoat/Clearcoat System
211.690	Batch Loading
211.695	Batch Operation
211.696	Batch Process Train
211.710	Bead-Dipping
211.730	Binders
<u>211.740</u>	<u>Brakehorsepower (rated-bhp)</u>
211.750	British Thermal Unit
211.770	Brush or Wipe Coating
211.790	Bulk Gasoline Plant
211.810	Bulk Gasoline Terminal
211.820	Business Machine Plastic Parts
211.830	Can
211.850	Can Coating
211.870	Can Coating Line
211.890	Capture
211.910	Capture Device
211.930	Capture Efficiency
211.950	Capture System
211.953	Carbon Adsorber
211.955	Cement
211.960	Cement Kiln

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211.970	Certified Investigation
211.980	Chemical Manufacturing Process Unit
211.990	Choke Loading
211.1010	Clean Air Act
211.1050	Cleaning and Separating Operation
211.1070	Cleaning Materials
211.1090	Clear Coating
211.1110	Clear Topcoat
211.1120	Clinker
211.1130	Closed Purge System
211.1150	Closed Vent System
211.1170	Coal Refuse
211.1190	Coating
211.1210	Coating Applicator
211.1230	Coating Line
211.1250	Coating Plant
211.1270	Coil Coating
211.1290	Coil Coating Line
211.1310	Cold Cleaning
211.1312	Combined Cycle System
211.1316	Combustion Turbine
211.1320	Commence Commercial Operation
211.1324	Commence Operation
211.1328	Common Stack
211.1330	Complete Combustion
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211.1370	Concrete Curing Compounds
211.1390	Concentrated Nitric Acid Manufacturing Process
211.1410	Condensate
211.1430	Condensable PM-10
211.1465	Continuous Automatic Stoking
211.1467	Continuous Coater
211.1470	Continuous Process
211.1490	Control Device
211.1510	Control Device Efficiency
211.1515	Control Period
211.1520	Conventional Air Spray
211.1530	Conventional Soybean Crushing Source
211.1550	Conveyorized Degreasing

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211.1570	Crude Oil
211.1590	Crude Oil Gathering
211.1610	Crushing
211.1630	Custody Transfer
211.1650	Cutback Asphalt
211.1670	Daily-Weighted Average VOM Content
211.1690	Day
211.1710	Degreaser
211.1730	Delivery Vessel
<u>211.1740</u>	<u>Diesel Engine</u>
211.1750	Dip Coating
211.1770	Distillate Fuel Oil
211.1780	Distillation Unit
211.1790	Drum
211.1810	Dry Cleaning Operation or Dry Cleaning Facility
211.1830	Dump-Pit Area
211.1850	Effective Grate Area
211.1870	Effluent Water Separator
211.1875	Elastomeric Materials
211.1880	Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Shielding Coatings
211.1885	Electronic Component
211.1890	Electrostatic Bell or Disc Spray
211.1900	Electrostatic Prep Coat
211.1910	Electrostatic Spray
211.1920	Emergency or Standby Unit
211.1930	Emission Rate
211.1950	Emission Unit
211.1970	Enamel
211.1990	Enclose
211.2010	End Sealing Compound Coat
211.2030	Enhanced Under-the-Cup Fill
211.2050	Ethanol Blend Gasoline
211.2070	Excess Air
211.2080	Excess Emissions
211.2090	Excessive Release
211.2110	Existing Grain-Drying Operation (Repealed)
211.2130	Existing Grain-Handling Operation (Repealed)
211.2150	Exterior Base Coat

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211.2170	Exterior End Coat
211.2190	External Floating Roof
211.2210	Extreme Performance Coating
211.2230	Fabric Coating
211.2250	Fabric Coating Line
211.2270	Federally Enforceable Limitations and Conditions
211.2285	Feed Mill
211.2290	Fermentation Time
211.2300	Fill
211.2310	Final Repair Coat
211.2330	Firebox
211.2350	Fixed-Roof Tank
211.2360	Flexible Coating
211.2365	Flexible Operation Unit
211.2370	Flexographic Printing
211.2390	Flexographic Printing Line
211.2410	Floating Roof
211.2420	Fossil Fuel
211.2425	Fossil Fuel-Fired
211.2430	Fountain Solution
211.2450	Freeboard Height
211.2470	Fuel Combustion Emission Unit or Fuel Combustion Emission Source
211.2490	Fugitive Particulate Matter
211.2510	Full Operating Flowrate
211.2530	Gas Service
211.2550	Gas/Gas Method
211.2570	Gasoline
211.2590	Gasoline Dispensing Operation or Gasoline Dispensing Facility
211.2610	Gel Coat
211.2620	Generator
211.2630	Gloss Reducers
211.2650	Grain
211.2670	Grain-Drying Operation
211.2690	Grain-Handling and Conditioning Operation
211.2710	Grain-Handling Operation
211.2730	Green-Tire Spraying
211.2750	Green Tires
211.2770	Gross Heating Value
211.2790	Gross Vehicle Weight Rating

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211.2810	Heated Airless Spray
211.2815	Heat Input
211.2820	Heat Input Rate
211.2830	Heatset
211.2850	Heatset Web Offset Lithographic Printing Line
211.2870	Heavy Liquid
211.2890	Heavy Metals
211.2910	Heavy Off-Highway Vehicle Products
211.2930	Heavy Off-Highway Vehicle Products Coating
211.2950	Heavy Off-Highway Vehicle Products Coating Line
211.2970	High Temperature Aluminum Coating
211.2990	High Volume Low Pressure (HVL) Spray
211.3010	Hood
211.3030	Hot Well
211.3050	Housekeeping Practices
211.3070	Incinerator
211.3090	Indirect Heat Transfer
211.3110	Ink
211.3130	In-Process Tank
211.3150	In-Situ Sampling Systems
211.3170	Interior Body Spray Coat
211.3190	Internal-Floating Roof
211.3210	Internal Transferring Area
211.3230	Lacquers
211.3250	Large Appliance
211.3270	Large Appliance Coating
211.3290	Large Appliance Coating Line
<u>211.3300</u>	<u>Lean-Burn Engine</u>
211.3310	Light Liquid
211.3330	Light-Duty Truck
211.3350	Light Oil
211.3370	Liquid/Gas Method
211.3390	Liquid-Mounted Seal
211.3410	Liquid Service
211.3430	Liquids Dripping
211.3450	Lithographic Printing Line
211.3470	Load-Out Area
211.3480	Loading Event
211.3483	Long Dry Kiln



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211.3485	Long Wet Kiln
211.3487	Low-NO <sub>x</sub> Burner
211.3490	Low Solvent Coating
211.3500	Lubricating Oil
211.3510	Magnet Wire
211.3530	Magnet Wire Coating
211.3550	Magnet Wire Coating Line
211.3570	Major Dump Pit
211.3590	Major Metropolitan Area (MMA)
211.3610	Major Population Area (MPA)
211.3620	Manually Operated Equipment
211.3630	Manufacturing Process
211.3650	Marine Terminal
211.3660	Marine Vessel
211.3670	Material Recovery Section
211.3690	Maximum Theoretical Emissions
211.3695	Maximum True Vapor Pressure
211.3710	Metal Furniture
211.3730	Metal Furniture Coating
211.3750	Metal Furniture Coating Line
211.3770	Metallic Shoe-Type Seal
211.3780	Mid-Kiln Firing
211.3790	Miscellaneous Fabricated Product Manufacturing Process
211.3810	Miscellaneous Formulation Manufacturing Process
211.3830	Miscellaneous Metal Parts and Products
211.3850	Miscellaneous Metal Parts and Products Coating
211.3870	Miscellaneous Metal Parts or Products Coating Line
211.3890	Miscellaneous Organic Chemical Manufacturing Process
211.3910	Mixing Operation
211.3915	Mobile Equipment
211.3930	Monitor
211.3950	Monomer
211.3960	Motor Vehicles
211.3965	Motor Vehicle Refinishing
211.3970	Multiple Package Coating
211.3980	Nameplate Capacity
211.3990	New Grain-Drying Operation (Repealed)
211.4010	New Grain-Handling Operation (Repealed)
211.4030	No Detectable Volatile Organic Material Emissions

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211.4050	Non-Contact Process Water Cooling Tower
211.4055	Non-Flexible Coating
211.4065	Non-Heatset
211.4067	NO <sub>x</sub> Trading Program
211.4070	Offset
211.4090	One Hundred Percent Acid
211.4110	One-Turn Storage Space
211.4130	Opacity
211.4150	Opaque Stains
211.4170	Open Top Vapor Degreasing
211.4190	Open-Ended Valve
211.4210	Operator of a Gasoline Dispensing Operation or Operator of a Gasoline Dispensing Facility
211.4230	Organic Compound
211.4250	Organic Material and Organic Materials
211.4260	Organic Solvent
211.4270	Organic Vapor
211.4290	Oven
211.4310	Overall Control
211.4330	Overvarnish
211.4350	Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing Facility
211.4370	Owner or Operator
211.4390	Packaging Rotogravure Printing
211.4410	Packaging Rotogravure Printing Line
211.4430	Pail
211.4450	Paint Manufacturing Source or Paint Manufacturing Plant
211.4470	Paper Coating
211.4490	Paper Coating Line
211.4510	Particulate Matter
211.4530	Parts Per Million (Volume) or PPM (Vol)
211.4550	Person
211.4590	Petroleum
211.4610	Petroleum Liquid
211.4630	Petroleum Refinery
211.4650	Pharmaceutical
211.4670	Pharmaceutical Coating Operation
211.4690	Photochemically Reactive Material
211.4710	Pigmented Coatings

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211.4730	Plant
211.4740	Plastic Part
211.4750	Plasticizers
211.4770	PM-10
211.4790	Pneumatic Rubber Tire Manufacture
211.4810	Polybasic Organic Acid Partial Oxidation Manufacturing Process
211.4830	Polyester Resin Material(s)
211.4850	Polyester Resin Products Manufacturing Process
211.4870	Polystyrene Plant
211.4890	Polystyrene Resin
211.4910	Portable Grain-Handling Equipment
211.4930	Portland Cement Manufacturing Process Emission Source
211.4950	Portland Cement Process or Portland Cement Manufacturing Plant
211.4960	Potential Electrical Output Capacity
211.4970	Potential to Emit
211.4990	Power Driven Fastener Coating
211.5010	Precoat
211.5015	Preheater Kiln
211.5020	Preheater/Precalciner Kiln
211.5030	Pressure Release
211.5050	Pressure Tank
211.5060	Pressure/Vacuum Relief Valve
211.5061	Pretreatment Wash Primer
211.5065	Primary Product
211.5070	Prime Coat
211.5080	Primer Sealer
211.5090	Primer Surfacer Coat
211.5110	Primer Surfacer Operation
211.5130	Primers
211.5150	Printing
211.5170	Printing Line
211.5185	Process Emission Source
211.5190	Process Emission Unit
211.5210	Process Unit
211.5230	Process Unit Shutdown
211.5245	Process Vent
211.5250	Process Weight Rate
211.5270	Production Equipment Exhaust System
211.5310	Publication Rotogravure Printing Line

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211.5330	Purged Process Fluid
211.5340	Rated Heat Input Capacity
211.5350	Reactor
211.5370	Reasonably Available Control Technology (RACT)
211.5390	Reclamation System
211.5410	Refiner
211.5430	Refinery Fuel Gas
211.5450	Refinery Fuel Gas System
211.5470	Refinery Unit or Refinery Process Unit
211.5480	Reflective Argent Coating
211.5490	Refrigerated Condenser
211.5500	Regulated Air Pollutant
211.5510	Reid Vapor Pressure
211.5530	Repair
211.5550	Repair Coat
211.5570	Repaired
211.5580	Repowering
211.5590	Residual Fuel Oil
211.5600	Resist Coat
211.5610	Restricted Area
211.5630	Retail Outlet
<u>211.5640</u>	<u>Rich-Burn Engine</u>
211.5650	Ringelmann Chart
211.5670	Roadway
211.5690	Roll Coater
211.5710	Roll Coating
211.5730	Roll Printer
211.5750	Roll Printing
211.5770	Rotogravure Printing
211.5790	Rotogravure Printing Line
211.5810	Safety Relief Valve
211.5830	Sandblasting
211.5850	Sanding Sealers
211.5870	Screening
211.5880	Screen Printing on Paper
211.5890	Sealer
211.5910	Semi-Transparent Stains
211.5930	Sensor
211.5950	Set of Safety Relief Valves

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211.5970	Sheet Basecoat
211.5980	Sheet-Fed
211.5990	Shotblasting
211.6010	Side-Seam Spray Coat
211.6025	Single Unit Operation
211.6030	Smoke
211.6050	Smokeless Flare
211.6060	Soft Coat
211.6070	Solvent
211.6090	Solvent Cleaning
211.6110	Solvent Recovery System
211.6130	Source
211.6140	Specialty Coatings
211.6145	Specialty Coatings for Motor Vehicles
211.6150	Specialty High Gloss Catalyzed Coating
211.6170	Specialty Leather
211.6190	Specialty Soybean Crushing Source
211.6210	Splash Loading
211.6230	Stack
211.6250	Stain Coating
211.6270	Standard Conditions
211.6290	Standard Cubic Foot (scf)
211.6310	Start-Up
211.6330	Stationary Emission Source
211.6350	Stationary Emission Unit
211.6355	Stationary Gas Turbine
211.6360	Stationary Reciprocating Internal Combustion Engine
211.6370	Stationary Source
211.6390	Stationary Storage Tank
211.6400	Stencil Coat
211.6410	Storage Tank or Storage Vessel
211.6420	Strippable Spray Booth Coating
211.6430	Styrene Devolatilizer Unit
211.6450	Styrene Recovery Unit
211.6470	Submerged Loading Pipe
211.6490	Substrate
211.6510	Sulfuric Acid Mist
211.6530	Surface Condenser
211.6540	Surface Preparation Materials

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211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant
211.6570	Tablet Coating Operation
211.6580	Texture Coat
211.6590	Thirty-Day Rolling Average
211.6610	Three-Piece Can
211.6620	Three or Four Stage Coating System
211.6630	Through-the-Valve Fill
211.6650	Tooling Resin
211.6670	Topcoat
211.6690	Topcoat Operation
211.6695	Topcoat System
211.6710	Touch-Up
211.6720	Touch-Up Coating
211.6730	Transfer Efficiency
211.6750	Tread End Cementing
211.6770	True Vapor Pressure
211.6790	Turnaround
211.6810	Two-Piece Can
211.6830	Under-the-Cup Fill
211.6850	Undertread Cementing
211.6860	Uniform Finish Blender
211.6870	Unregulated Safety Relief Valve
211.6880	Vacuum Metallizing
211.6890	Vacuum Producing System
211.6910	Vacuum Service
211.6930	Valves Not Externally Regulated
211.6950	Vapor Balance System
211.6970	Vapor Collection System
211.6990	Vapor Control System
211.7010	Vapor-Mounted Primary Seal
211.7030	Vapor Recovery System
211.7050	Vapor-Suppressed Polyester Resin
211.7070	Vinyl Coating
211.7090	Vinyl Coating Line
211.7110	Volatile Organic Liquid (VOL)
211.7130	Volatile Organic Material Content (VOMC)
211.7150	Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
211.7170	Volatile Petroleum Liquid
211.7190	Wash Coat

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211.7200	Washoff Operations
211.7210	Wastewater (Oil/Water) Separator
211.7230	Weak Nitric Acid Manufacturing Process
211.7250	Web
211.7270	Wholesale Purchase - Consumer
211.7290	Wood Furniture
211.7310	Wood Furniture Coating
211.7330	Wood Furniture Coating Line
211.7350	Woodworking
211.7400	Yeast Percentage

211.APPENDIX 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.

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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. \_\_\_\_\_, effective \_\_\_\_\_.

SUBPART B: DEFINITIONS

Section 211.740      Brakehorsepower (rated-bhp)

“Brakehorsepower or “bhp” means the rated horsepower capacity of the engine as defined on the engine nameplate at standard conditions.

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

Section 211.1740      Diesel Engine

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

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

Section 211.1920      Emergency or Standby Unit

“Emergency or Standby Unit” means, for a stationary gas turbine or a stationary reciprocating internal combustion engine, a unit that:



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- 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.;~~or~~
- c) Operates in response to and during the existence of any officially declared disaster or state of emergency.
- d) Operates for the purpose of testing, repair or routine maintenance to verify its readiness for emergency or standby use.

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

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

Section 211.3300 Lean-Burn Engine

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

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

Section 211.5640 Rich-Burn Engine

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

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

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

<u>Section Numbers:</u>	<u>Adopted Action:</u>
217.101	Amended
217.102	Amended
217.104	Amended
217.386	New Section
217.388	New Section
217.390	New Section
217.392	New Section
217.394	New Section
217.396	New Section
217.APPENDIX G	New Section
- 4) Statutory Authority: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5].
- 5) Effective Date of Amendments:
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Do these amendments contain incorporations by reference? Yes
- 8) The adopted amendments, including any material incorporated by reference, are on file in the Board's Chicago office at the James R. Thompson Center, 100 W. Randolph, Suite 11-500 and are available for public inspection.
- 9) Notice of Proposal Published in Illinois Register:  
May 4, 2007; 31 Ill. Reg. 6597
- 10) Has JCAR issued a Statement of Objections to these amendments? No
- 11) Differences between proposal and final version:  
In its opinion of May 17, 2007 that addressed the objections raised by participants in this rulemaking, the Board found that the proposal originally submitted by the Illinois Environmental Protection Agency (Agency) applied to emissions sources other than

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those addressed in the NO<sub>x</sub> SIP Call Phase II, and that the proposal therefore encompassed rules beyond those that are required to be adopted by the State under the CAA. Accordingly, the Board ruled that it would bifurcate the language in the proposal to only consider those portions of the rule that are required to be adopted. This decision is reflected in the final text as the Board made extensive changes to the text that was originally proposed for first notice in this rulemaking docket.

The Board opened a new docket, Nitrogen Oxide (NO<sub>x</sub>) Emissions From Stationary Reciprocating Internal Combustion Engines and Turbines: Amendments to 35 Ill. Adm. Code Parts 211 and 217 (R07-19), to address the portions of the rulemaking that were not applicable in the R07-18 fast track rule. First notice of those amendments was published in the *Illinois Register* on June 8, 2007 at 31 Ill. Reg. 7683 and 7702.

The Board made some additional changes to the amendments in response to the July 5, 2007 comments of the Agency that were intended to clarify or correct portions of the rulemaking that remained after the bifurcation.

12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements letter issued by JCAR? Yes

13) Will these amendments replace emergency amendments currently in effect? No

14) Are there any amendments pending on this Part? Yes

<u>Section Numbers:</u>	<u>Proposed Action:</u>	<u>Illinois Register publication</u>
217.386	New Section	June 8, 2007; 31 Ill. Reg. 7702
217.388	New Section	June 8, 2007; 31 Ill. Reg. 7702
217.390	New Section	June 8, 2007; 31 Ill. Reg. 7702
217.392	New Section	June 8, 2007; 31 Ill. Reg. 7702
217.394	New Section	June 8, 2007; 31 Ill. Reg. 7702
217.396	New Section	June 8, 2007; 31 Ill. Reg. 7702

15) Summary and Purpose of Amendments:

For a more detailed discussion of these amendments, see the Board's September 20, 2007 opinion and order in docket R07-18. These adopted amendments are intended to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.* Specifically, the amendments satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of the Phase II of the United States

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Environmental Protection Agency's (USEPA's) nitrogen oxides (NO<sub>x</sub>) State Implementation Plan (SIP) call. The NO<sub>x</sub> SIP call required affected states, including Illinois, to regulate NO<sub>x</sub> emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA). 69 Fed. Reg. 21604 (April 21, 2004). The rulemaking adopts amendments to Parts 211 and 217.

Specifically, the amendments to Part 217 adopt a new Subpart Q and Appendix G that address the control of NO<sub>x</sub> emissions from stationary reciprocating internal combustion engines, including a number of compliance, reporting, and recordkeeping requirements. The adopted amendments contain updates to measurement methods and to the materials that are incorporated by reference in Part 217. The applicability section clarifies that the requirements of Subpart Q are applicable to the engines that are listed in Appendix G. The amendments contain specific requirements regarding testing and monitoring that address both initial performance and ongoing testing requirements.

The control and maintenance requirements of Subpart Q include limits on the discharge of NO<sub>x</sub> and offer compliance options to owners and operators through emissions averaging plans (as an alternative to the use of concentration limits). The amendments include standards and requirements for the emissions averaging plans that include a requirement that units must be located in Illinois and be owned by the same parent company. Additionally, units can only be used in one emissions averaging plan. Further requirements for emissions averaging plans include requiring demonstrations of compliance with the ozone season and calendar year standards, formulas for demonstrating this compliance, and equations to determine the affected units' actual NO<sub>x</sub> emissions for the type of fuel that the unit uses. Units included in an emissions averaging plan must undergo testing once every five years.

The amendments also adopt conditions for units that use continuous emissions monitoring systems (CEMS) in lieu of stack testing and portable monitoring. Units that are equipped with CEMS that meet specific federal requirements or that are following alternative procedures that have been approved by the IEPA or the USEPA in a federally enforceable permit are allowed alternative testing and monitoring requirements.

- 16) Information and questions regarding these adopted amendments shall be directed to:

Tim Fox  
Illinois Pollution Control Board  
100 W. Randolph 11-500  
Chicago, IL 60601  
312-814-6085

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Copies of the Board's opinions and orders may be requested from the Clerk of the Board at the address listed in #8 above or by calling 312/814-3620. Please refer to the Docket number R07-18 in your request. The Board order is also available from the Board's Web site ([www.ipcb.state.il.us](http://www.ipcb.state.il.us))

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

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

PART 217  
NITROGEN OXIDES EMISSIONS  
SUBPART A: GENERAL PROVISIONS

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

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

Section	
217.121	New Emission Sources

SUBPART C: EXISTING FUEL COMBUSTION EMISSION SOURCES

Section	
217.141	Existing Emission Sources in Major Metropolitan Areas

SUBPART K: PROCESS EMISSION SOURCES

Section	
217.301	Industrial Processes

SUBPART O: CHEMICAL MANUFACTURE

Section	
217.381	Nitric Acid Manufacturing Processes

SUBPART Q: STATIONARY RECIPROCATING INTERNAL COMBUSTION  
ENGINES AND TURBINES

<u>Section</u>	
<u>217.386</u>	<u>Applicability</u>
<u>217.388</u>	<u>Control and Maintenance Requirements</u>

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<u>217.390</u>	<u>Emissions Averaging Plans</u>
<u>217.392</u>	<u>Compliance</u>
<u>217.394</u>	<u>Testing and Monitoring</u>
<u>217.396</u>	<u>Recordkeeping and Reporting</u>

SUBPART T: CEMENT KILNS

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

SUBPART U: NO<sub>x</sub> CONTROL AND TRADING PROGRAM FOR  
SPECIFIED NO<sub>x</sub> GENERATING UNITS

Section	
217.450	Purpose
217.452	Severability
217.454	Applicability
217.456	Compliance Requirements
217.458	Permitting Requirements
217.460	Subpart U NO <sub>x</sub> Trading Budget
217.462	Methodology for Obtaining NO <sub>x</sub> Allocations
217.464	Methodology for Determining NO <sub>x</sub> Allowances from the New Source Set-Aside
217.466	NO <sub>x</sub> Allocations Procedure for Subpart U Budget Units
217.468	New Source Set-Asides for "New" Budget Units
217.470	Early Reduction Credits (ERCs) for Budget Units
217.472	Low-Emitter Requirements
217.474	Opt-In Units
217.476	Opt-In Process
217.478	Opt-In Budget Units: Withdrawal from NO <sub>x</sub> Trading Program
217.480	Opt-In Units: Change in Regulatory Status
217.482	Allowance Allocations to Opt-In Budget Units

SUBPART V: ELECTRIC POWER GENERATION

Section	
217.521	Lake of Egypt Power Plant

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217.700	Purpose
217.702	Severability
217.704	Applicability
217.706	Emission Limitations
217.708	NO <sub>x</sub> Averaging
217.710	Monitoring
217.712	Reporting and Recordkeeping

SUBPART W: NO<sub>x</sub> TRADING PROGRAM FOR ELECTRICAL  
GENERATING UNITS

Section	
217.750	Purpose
217.752	Severability
217.754	Applicability
217.756	Compliance Requirements
217.758	Permitting Requirements
217.760	NO <sub>x</sub> Trading Budget
217.762	Methodology for Calculating NO <sub>x</sub> Allocations for Budget Electrical Generating Units (EGUs)
217.764	NO <sub>x</sub> Allocations for Budget EGUs
217.768	New Source Set-Asides for "New" Budget EGUs
217.770	Early Reduction Credits for Budget EGUs
217.774	Opt-In Units
217.776	Opt-In Process
217.778	Budget Opt-In Units: Withdrawal from NO <sub>x</sub> Trading Program
217.780	Opt-In Units: Change in Regulatory Status
217.782	Allowance Allocations to Budget Opt-In Units

SUBPART X: VOLUNTARY NO<sub>x</sub> EMISSIONS REDUCTION PROGRAM

Section	
217.800	Purpose
217.805	Emission Unit Eligibility
217.810	Participation Requirements
217.815	NO <sub>x</sub> Emission Reductions and the Subpart X NO <sub>x</sub> Trading Budget
217.820	Baseline Emissions Determination
217.825	Calculation of Creditable NO <sub>x</sub> Emission Reductions
217.830	Limitations on NO <sub>x</sub> Emission Reductions
217.835	NO <sub>x</sub> Emission Reduction Proposal



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217.840	Agency Action
217.845	Emissions Determination Methods
217.850	Emissions Monitoring
217.855	Reporting
217.860	Recordkeeping
217.865	Enforcement

APPENDIX A Rule into Section Table

APPENDIX B Section into Rule Table

APPENDIX C Compliance Dates

APPENDIX D Non-Electrical Generating Units

APPENDIX E Large Non-Electrical Generating Units

APPENDIX F Allowances for Electrical Generating Units

APPENDIX G Existing Reciprocating Internal Combustion Engines Affected by the NO<sub>x</sub> SIP Call

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

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

SUBPART A: GENERAL PROVISIONS

Section 217.101 Measurement Methods

Measurement of nitrogen oxides must be according to:

- a) The phenol disulfonic acid ~~procedures~~method, 40 CFR 60, Appendix A, Method 7, as incorporated by reference in Section 217.104(1999);
- b) Continuous emissions monitoring pursuant to 40 CFR 75, as incorporated by reference in Section 217.104(1999); and
- c) Determination of Nitrogen Oxides Emissions from Stationary Sources

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(Instrumental Analyzer Procedure), 40 CFR 60, Appendix A, Method 7E, as incorporated by reference in Section 217.104;(1999).

- d) Monitoring with portable monitors pursuant to ASTM D6522-00, as incorporated by reference in Section 217.104; and
- e) How do I conduct the initial and subsequent performance tests (for turbines), regarding NO<sub>x</sub> pursuant to 40 CFR 60.4400, as incorporated by reference in Section 217.104.

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

Section 217.102 Abbreviations and Units

- a) The following abbreviations are used in this Part:

ASTM	American Society for Testing and Materials
<u>Bbtu</u>	British thermal unit (60°F)
<u>bhp</u>	brake horsepower
<u>CEMS</u>	<u>continuous emissions monitoring system</u>
EGU	Electrical Generating Unit
<u>dscf</u>	<u>dry standard cubic feet</u>
<u>g/bhp-hr</u>	<u>grams per brake horsepower-hour</u>
kg	kilogram
kg/MW-hr	kilograms per megawatt-hour; usually used as an hourly emission rate
lb	pound
<u>NO<sub>x</sub></u>	<u>Nitrogen Oxides</u>
lbs/mmBbtu	pounds per million Bbtu; usually used as an hourly emission rate
Mg	megagram or metric tonne
<u>mm</u>	<u>million</u>
<u>mmBbtu</u>	million British thermal units
mmBbtu/hr	million British thermal units per hour
MWe	megawatt of electricity
MW	megawatt; one million watts
MW-hr	megawatt-hour
<u>NATS</u>	<u>NO<sub>x</sub> Allowance Tracking System</u>
<u>NO<sub>2</sub></u>	<u>nitrogen dioxide</u>
<u>NO<sub>x</sub></u>	<u>nitrogen oxides</u>

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<u>O<sub>2</sub></u>	<u>oxygen</u>
<u>psia</u>	<u>pounds per square inch absolute</u>
<u>peoc</u>	<u>potential electrical output capacity</u>
	<u>PTE potential to emit</u>
<u>ppm</u>	<u>parts per million</u>
<u>ppmv</u>	<u>parts per million by volume</u>
<u>T</u>	<u>English ton</u>
<u>TPY</u>	<u>tons per year</u>

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

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

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

Section 217.104 Incorporations by Reference

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

- The phenol disulfonic acid ~~procedures~~method, as published in 40 CFR 60, Appendix A, Method 7 (2000)(1999);
- 40 CFR 96, subparts B, D, G, and H (1999);
- 40 CFR §§ 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55 (a) & (b), 96.56 and 96.57 (1999);
- 40 CFR 60, 72, 75 & 76 (2006)(1999);
- Alternative Control Techniques Document---- NO<sub>x</sub> Emissions from Cement

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Manufacturing, EPA-453/R-94-004, U. S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, March 1994;

- f) Section 11.6, Portland Cement Manufacturing, AP-42 Compilation of Air Emission Factors, Volume 1: Stationary Point and Area Sources, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, revised January 1995;
- g) 40 CFR § 60.13 (2001)~~(1999)~~; and
- h) 40 CFR 60, Appendix A, Methods 3A, 7, 7A, 7C, 7D, and 7E, 19, and 20 ~~(2000)~~~~(1999)~~;
- i) ASTM D6522-00, Standard Test Method for Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters Using Portable Analyzers (2000);
- k) Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK, 60.4400 (2006); and
- l) Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources (2000), USEPA.

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

SUBPART Q: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES  
AND TURBINES

Section 217.386      Applicability

A stationary reciprocating internal combustion engine listed in Appendix G of this Part is subject to the requirements of this Subpart Q.

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

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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 (c) of this Section and comply with either the applicable emissions concentration as set forth in subsection (a) of this Section, or the requirements for an emissions averaging plan as specified in subsection (b) of this Section.

- a) The owner or operator must limit the discharge from an affected unit into the atmosphere of any gases that contain NO<sub>x</sub> to no more than:
  - 1) 150 ppmv (corrected to 15 percent O<sub>2</sub> on a dry basis) for spark-ignited rich-burn engines;
  - 2) 210 ppmv (corrected to 15 percent O<sub>2</sub> on a dry basis) for spark-ignited lean-burn engines
  
- b) The owner or operator must comply with the requirements of the applicable emissions averaging plan as set forth in Section 217.390.
  
- c) The owner or operator must inspect and perform periodic maintenance on the affected unit, in accordance with a Maintenance Plan that documents:
  - 1) For a unit not located at natural gas transmission compressor station or storage facility either:
    - A) The manufacturer's recommended inspection and maintenance of the applicable air pollution control equipment, monitoring device, and affected unit; or
    - B) If the original equipment manual is not available or substantial modifications have been made that require an alternative procedure for the applicable air pollution control device, monitoring device, or affected unit, the owner or operator must establish a plan for inspection and maintenance in accordance with what is customary for the type of air pollution control equipment, monitoring device, and affected unit.
  
  - 2) For a unit located at a natural gas compressor station or storage facility,

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the operator's maintenance procedures for the applicable air pollution control device, monitoring device, and affected unit.

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

Section 217.390 Emissions Averaging Plans

- a) An owner or operator of certain affected units may comply through an emissions averaging plan.
- 1) The unit or units that commenced operation before January 1, 2002, may be included in an emissions averaging plan as follows: units located at a single source or at multiple sources in Illinois, so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations. A unit may be listed in only one emissions averaging plan.
  - 2) The following types of units may not be included in an emissions averaging plan: units that commence operation after January 1, 2002, unless the unit replaces an engine or turbine that commenced operation on or before January 1, 2002, or it replaces an engine or turbine that replaced a unit that commenced operation on or before January 1, 2002. The new unit must be used for the same purpose as the replacement unit. The owner or operator of a unit that is shutdown and replaced must comply with the provisions of Section 217.396(d)(3) before the replacement unit may be included in an emissions averaging plan.
- b) An owner or operator must submit an emissions averaging plan to the Agency by the applicable compliance date set forth in Section 217.392. The plan must include, but is not limited to:
- 1) The list of affected units included in the plan by unit identification number and permit number.
  - 2) A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for both the ozone season and calendar year.

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- c) An owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must be submitted to the Agency by May 1 of the applicable calendar year. If an amended plan is not received by the Agency by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.
- d) Notwithstanding subsection (c) of this Section, an owner or operator, and the buyer, if applicable, 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.
- 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 NO<sub>x</sub> emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO<sub>x</sub> emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

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

Where:

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

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

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

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

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

$EM_{act(i)}$  = Total mass of actual  $NO_x$  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  $NO_x$  emissions using the following equations, except as provided for in subsection (h) of this Section:

1) Actual emissions must be determined as follows:

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

2) Allowable emissions must be determined as follows:

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



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Where:

$EM_{act(i)}$  = Total mass of actual  $NO_x$  emissions in lbs for a unit, except as provided for in subsections (g)(3) and (g)(5) of this Section.

$EM_{all(i)}$  = Total mass of allowable  $NO_x$  emissions in lbs for a unit, except as provided for in subsection (g)(3) of this Section.

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

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

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

$C_{d(act)}$  = Actual concentration of  $NO_x$  in lb/dscf ( $ppmv \times 1.194 \times 10^{-7}$ ) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test run or monitoring pass performed pursuant to Section 217.394, whichever is higher.

$C_{d(all)}$  = Allowable concentration of  $NO_x$  in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(4), (g)(5), or (g)(6) of this Section, if applicable, multiplied by  $1.194 \times 10^{-7}$ ) on a dry basis for the fuel used.

$F_d$  = The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, Appendix A, Method 19 or as determined using 40 CFR 60, Appendix A, Method 19.

$\%O_{2d}$  = Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable test or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7% $O_{2d}$ , 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.

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- 3) 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</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</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:

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

Where:

EM<sub>all elec(i)</sub> = Mass of allowable NO<sub>x</sub> emissions from the electric-powered replacement unit in pounds per ozone season or calendar year.

bhp = Nameplate capacity of the electric-powered replacement unit in brake-horsepower.

OP = Operating hours during the ozone season or calendar year.

F = Conversion factor of 0.0077 mmBtu/bhp-hr.

E<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.

- 4) For a replacement unit that is not electric, the allowable NO<sub>x</sub> emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be the higher of the actual NO<sub>x</sub> emissions as determined by testing or monitoring data or the applicable uncontrolled NO<sub>x</sub> emissions factor from Compilation of Air pollutant emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104 for the unit that was replaced.

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- 5) For a unit that is replaced with purchased power, the allowable NO<sub>x</sub> emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be the emissions concentration as set forth in Section 217.388(a) or subsection (g)(6) of this Section, when applicable, for the type of unit that was replaced. For owners or operators replacing units with purchased power, the annual hours of operations that must be used are the calendar year hours of operation for the unit that was shutdown averaged over the three-year period prior to the shutdown. The actual NO<sub>x</sub> emissions for the units replaced by purchased power (EM<sub>(i)act</sub>) 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 non-Appendix G units used in an emissions averaging plan, allowable emissions rate used in the above equations set forth in subsection (g)(2) of this Section must be the higher of the actual NO<sub>x</sub> emissions as determined by testing or monitoring data, or the applicable uncontrolled NO<sub>x</sub> 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).
- h) For units that use CEMS the data must show that the total mass of actual NO<sub>x</sub> emissions determined pursuant to subsection (h)(1) of this Section is less than or equal to the allowable NO<sub>x</sub> 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 NO<sub>x</sub> emissions in lbs for a unit (EM<sub>act</sub>) must be the sum of the total mass of actual NO<sub>x</sub> 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 NO<sub>x</sub> emissions must be determined as follows:

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

Where:

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- EM<sub>all(i)</sub> = Total mass of allowable NO<sub>x</sub> emissions in lbs for a unit.  
Flow<sub>i</sub> = Stack flow (dscf/hr) for a given stack.  
Cd<sub>j</sub> = Allowable concentration of NO<sub>x</sub> (ppmv) specified in Section 217.388(a) of this subpart for a given stack. (1.194 x 10<sup>-7</sup>) converts to lb/dscf.  
j = subscript denoting each hour operation of a given unit.  
m = Total number of hours of operation of a unit.  
i = Subscript denoting an individual unit and the fuel used.

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

Section 217.392 Compliance

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.

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

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) Within the first 876 hours of operation per calendar year. Performance tests must be conducted on 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. Performance tests must be conducted on units that are not affected units that are included in an emissions averaging

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plan and that operate fewer than 876 hours per calendar year.

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

- 1) For affected engines listed in Appendix G and all units included in an emissions averaging plan, once every five years. Testing must be performed in the calendar year by May 1 or within 60 days 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. NO<sub>x</sub> 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

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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 NO<sub>x</sub> 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 NO<sub>x</sub> monitor utilizing method ASTM D6522-00, as incorporated by reference in Section 217.104, or a method approved by the Agency must be used. If the engine or turbine combusts both liquid and gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.
- 2) NO<sub>x</sub> and O<sub>2</sub> concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan as specified in Section 217.388.
- e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of this Section, an owner or operator may install and operate a CEMS on an affected unit that meets the applicable requirements of 40 CFR 60, subpart A, and appendix B, incorporated by reference in Section 217.104, and complies with the quality assurance procedures specified in 40 CFR 60, appendix F, or 40 CFR 75 as incorporated by reference in Section 217.104, or an alternate procedure as approved by the Agency or USEPA in a federally enforceable permit. The CEMS must be used to demonstrate compliance with the applicable emissions concentration or emissions averaging plan only on an ozone season and annual basis.

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

Section 217.396 Recordkeeping and Reporting

- a) Recordkeeping. The owner or operator of 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

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limited to:

- 1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.
  - 2) Calendar date of the record.
  - 3) The number of hours the unit operated on a monthly basis, and during each ozone season.
  - 4) Type and quantity of the fuel used on a daily basis.
  - 5) The results of all monitoring performed on the unit and reported deviations.
  - 6) The results of all tests performed on the unit.
  - 7) The plan for performing inspection and maintenance of the units, air pollution control equipment, and the applicable monitoring device pursuant to Section 217.388(dc).
  - 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.
- b) The owner or operator of an affected unit or unit included in an emissions averaging plan must maintain the records required by subsections (a) and (b) of

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this Section for a period of five-years at the source at which the unit is located. The records must be made available to the Agency and USEPA upon request.

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 30 following the applicable calendar year, the owner or



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operator must submit to the Agency a report that demonstrates the following:

- i) For all units that are part of the emissions averaging plan, the total mass of allowable NO<sub>x</sub> emissions for the ozone season and for the annual control period;
  - ii) The total mass of actual NO<sub>x</sub> emissions for the ozone season and annual control period for each unit included in the averaging plan;
  - iii) The calculations that demonstrate that the total mass of actual NO<sub>x</sub> emissions are less than the total mass of allowable NO<sub>x</sub> emissions using equations in Sections 217.390(f) and (g); and
  - iv) The information required to determine the total mass of actual NO<sub>x</sub> emissions and the calculations performed in subsection (d)(4)(B)(iii) of this Section.
- 5) If operating a CEMS, the owner or operator must submit an excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and 60.13, or 40 CFR 75 incorporated by reference in Section 217.104, or an alternate procedure approved by the Agency or USEPA and included in a federally enforceable permit.

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

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Section 217.APPENDIX G: Existing Reciprocating Internal Combustion Engines Affected by the NO<sub>x</sub> SIP Call

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

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<u>041804AAC</u>	<u>73010573013</u>	<u>13</u>
<b><u>Panhandle Eastern Pipeline Co.</u></b>		
<u>149820AAB</u>	<u>7301057199G</u>	<u>3</u>
<u>149820AAB</u>	<u>7301057199I</u>	<u>1</u>
<u>149820AAB</u>	<u>7301057199J</u>	<u>1</u>
<u>149820AAB</u>	<u>7301057199K</u>	<u>1</u>
<b><u>Panhandle Eastern Pipeline Co.-Glenarm</u></b>		
<u>167801AAA</u>	<u>87090038001</u>	<u>1</u>
<b><u>Phoenix Chemical Co.</u></b>		
<u>085809AAA</u>	<u>730700330101</u>	<u>1</u>
<u>085809AAA</u>	<u>730700330102</u>	<u>2</u>
<u>085809AAA</u>	<u>730700330103</u>	<u>3</u>

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