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1) <u>Heading of the Part</u>: Definitions and General Procedures

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

3)	Section Numbers:	Proposed Action:
	211.665	New Section
	211.995	New Section
	211.1315	New Section
	211.1435	New Section
	211.2355	New Section
	211.2357	New Section
	211.2625	New Section
	211.3100	New Section
	211.3355	New Section
	211.3475	New Section
	211.4280	New Section
	211.5195	New Section



- 4) <u>Statutory Authority</u>: Implementing Section 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, and 28]
- 5) A Complete Description of the Subjects and Issues Involved:

The Board's May 7, 2009 opinion and order (<u>Amendments to 35 III. Adm. Code 217</u>, <u>Nitrogen Oxides Emissions</u>, and 35 III. <u>Adm. Code 211</u>, R08-19, slip op. at 21-27 (summarizing twelve proposed new definitions)) describes the twelve new Sections of Part 211 proposed in this rulemaking.

This rulemaking is based on a proposal filed with the Board by the Illinois Environmental Protection Agency (Agency) on May 9, 2008. The Agency proposes to amend Parts 211 and 217 of the Board's air pollution regulations (35 Ill. Adm. Code 211, 217) to control nitrogen oxides (NO_x) emissions from major stationary sources in the nonattainment areas and from emission units including industrial boilers, process heaters, glass melting furnaces, cement kilns, lime kilns, furnaces used in steelmaking and aluminum melting, and fossil fuel-fired stationary boilers at such sources. In Part 211, the Agency proposes to add twelve new definitions of terms employed in proposed new Sections of Part 217.

On April 2, 2009, the Board granted the Agency's motion to expedite review of this proposal in order to meet federal deadlines for submission of State Implementation Plans for NO_x. In its May 7, 2009, opinion and order, the Board stated that, having granted the

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motion for expedited review, it is highly unlikely to grant any motion for an extension of the first-notice comment period. The Board strongly encouraged participants who wish to file a public comment to do so within the statutory 45-day period.

- 6) <u>Published studies or reports, and sources of underlying data, used to compose this rulemaking</u>: The Agency stated that it relied on the following 68 sources in preparing its proposal to the Board:
 - 1. The Clean Air Act, as amended in 1990 (42 USC 7401 et seq.);
 - 2. Illinois Environmental Protection Act (415 ILCS 5);
 - 3. Energy & Environmental Analysis, Inc., "Characterization of the U.S. Boiler Industrial Commercial Boiler Population", submitted to Oak Ridge National Laboratory, May 2005;
 - 4. http://commons.wikimedia.org/wiki/Image:Water tube boiler schematic.png;
 - 5. http://en.wikipedia.org/wiki/Image:Locomotive fire tube boiler schematic.png;
 - 6. Babcock & Wilcox Company; Steam, Its Generation and Use, 40th Edition, 1992;
 - 7. Neil Johnson, "Fundamentals of Stoker Fired Boiler Design and Operation", presented at CIBO Emission Controls Technology Conference, July 15-17, 2002;
 - 8. Letter to Mr. Regulator, New Hampshire Division of Environmental Services, from Daniel J. Willems, Product Development, Cleaver Brooks, dated May 19, 2006;
 - 9. http://wwwl.eere.energy.gov/industry/bestpractices/pdfs/steam4_boiler_efficiency.pdf;
 - 10. http://www.energysolutionscenter.org/boilerburner/Eff_Improve/ Efficiency/Oxygen Control.asp;
 - 11. http://files.asme.org/asmeorg/Codes/CertifAccred/Personnel/2971.pdf;
 - 12. http://www.coen.com/i html/white lowcostnoxpm.html;

- 13. Rajani Varagani (n.d.), "A Cost Effective Low NO_x Retrofit Technology for Industrial Boilers," cited within CIBO Industrial Emissions Control Technology III, August 1-3, 2005;
- 14. Email from Jim Staudt, Andover Technology, to R. Gifford Broderick, Combustion Components Associates, Based on estimate for a 4-burner project, dated October 16, 2003;
- 15. http://www.johnzink.com/products/burners/html todd/burn todd cs 104.htm;
- 16. Sacramento General Services Heating Plant Case Study: COEN web site: http://www.coen.com/mrktli/ibrochures/pdf/qla.pdf;
- 17. Zink, John (2003) "U.S. Borax TODD Ultra Low Emissions Burner Installment";
- 18. Zink, John (2003) "TODD Ultra Low Emissions Burner Installment";
- 19. Coen Company, "Ultra Low NO_x Gas-Fired Burner with Air Preheat", Final Report, prepared for California Air Resources Board, November 23, #2000;
- 20. Memorandum from Jim Staudt, Andover Technology Partners, to Sikander Khan, United States Environmental Protection Agency, providing comments in response to September 10, 2003 email, dated October 24, 2003;
- 21. Memorandum from Chad Whiteman, Institute of Clean Air Companies to Christopher Recchia, Ozone Transport Commission, regarding Selective Non-Catalytic Reduction Technology Costs for Industrial Sources, dated October 6, 2006;
- 22. Northeast States for Coordinated Air Use Management (NESCAUM), "Status Report on NO_x: Control Technologies and Cost Effectiveness for Utility Boilers", prepared by Jim Staudt, Andover Technology Partners, June 1998;
- 23. Northeast States for Coordinated Air Use Management (NESCAUM), "Status Report on NO^x Controls", prepared by Jim Staudt, Andover Technology Partners, December 2000 ("NESCAUM 2000 report");
- 24. Institute to Clean Air Companies, Inc., "White Paper: Selective Catalytic Reduction (SCR) Control of NO_x Emissions", November 1997;

- 25. http://www.cormetech.com/experience.htm;
- 26. "Economic Indicators", Chemical Engineering, p. 102, September 2006;
- 27. Vatatuck, William M., "Updating the CE Plant Cost Index", Chemical Engineering, p. 69, January 2002;
- 28. State and Territorial Air Pollution (STAPPA) and Association of Local Air Pollution Control Offices (ALAPCO), "Controlling Fine Particulate Matter Under the Clean Air Act: A Menu of Options", March 2006;
- 29. Erickson, C., and Staudt, J., "Selective Catalytic Reduction System Performance and Reliability Review", presented at the EPRI-EPA-DOE-AWMA Combined Utility Air Pollution Control Conference, the Mega Conference, Baltimore, August 28-31, 2006;
- 30. Cichanowicz, E.J., "Current Capital Cost and Cost-Effectiveness of Power Plant Emissions Control Technologies", prepared for Utility Air Regulatory Group, June 2007.
- 31. http://www.mobotecusa.com/projects/vermillion-sellsheet.pdf;
- 32. http://www.mobotecusa.com/projects/capefear6-sellsheet.pdf;
- 33. STAPPA/ALAPCO, "Controlling Nitrogen Oxides under the Clean Air Act: A Menu of Options", July 1994;
- 34. Khan, Sikander, United States Environmental Protection Agency, "Methodology, Assumptions, and References Preliminary NO_x Controls Cost Estimates for Industrial Boilers", October-November 2003;
- 35. MACTEC Federal Programs/MACTEC Engineering and Consulting, Inc., "Midwest Regional Planning Organization (RPO): Petroleum Refinery Best Available Retrofit Technology (BART)", Engineering Analysis, prepared for The Lake Michigan Air Directors Consortium (LADCO), March 30, 2005. ("LADCO 2005");
- 36. http://www.epa.gov/air/ozonepollution/SIPToolkit/documents/stationary nox list.pdf;

- 37. http://www.callidus.com/pages/next_gen.htm;
- 38. Heat Input Affects NO_x Emissions from Internal Flue Gas Re-Circulation Burners http://texasiof.ces.utexas.edu/texasshowcase/pdfs/presentations/c1/dbishop.pdf;
- 39. http://www.andovertechnology.com/HGA_Market_Report_secure.pdf;
- 40. http://vvww.valleyair.org/rules/currntrules/r4304.pdf;
- 41. www.perf.org/ppt/Bishop.ppt;
- 42. State of New Jersey Department of Environmental Protection, State of the Art Manual for Boilers and Process Heaters, July 1997 (revised February 22, 2004). www.state.nj.us/dep/aqpp/downloads/sota/sota/2.pdf;
- 43. Partha Ganguli, Workgroup Recommendations and Other Potential Control Measures Stationary Combustion Sources Workgroup, May 11, 2006. http://www.nj.gov/dep/airworkgroups/docs/wps/SCS004A fin.pdf;
- 44. Sun, W.H., Bisnett, M.J., et al., "Reduction of NO_x Emissions from Cement Kiln/Calciner through the Use of the NO_xOUT Process", International Specialty Conference on Waste Combustion in Boilers and Industrial Furnaces, April 21, 1994;
- 45. http://www.cadencerecycling.com/pdf/6-PageComplete.pdf;
- 46. Hansen, E., Cadence Environmental Energy Inc., "Staged Combustion for NO_x Reduction Using High Pressure Air Injection", undated. http://www.cadencerecycling.com/pdf/IEEE2002.pdf;
- 47. Sabo, E., MACTEC Federal Programs, Inc., "Candidate Control Measures for Cement Plants", LADCO/MRPO, Regional Air Quality Workshop, June 28, 2005;
- 48. United States Environmental Protection Agency, Office of Air Quality, Planning and Standards, Technical Bulletin: Nitrogen Oxides (NO_x), Why and How They Are Controlled, EPA-456/F-99-006R, November 1999. http://www.epa.gov/ttn/catc/dirl/fnoxdoc.pdf;

- 49. Finding of Significant Contribution and Rulemaking for Certain States in the Ozone Transport Assessment Group Region for Purposes of Reducing Regional Transport of Ozone, Rule, 63 Fed. Reg. 57356, October 27, 1998;
- 50. <u>State of Michigan v. USEPA</u>, 213 F.3d 663 (D.C. Cir. 2000);
- 51. Federal Implementation Plans to Reduce the Regional Transport of Ozone; Proposed Rule, 63 Fed. Reg. 56394, October 21, 1998;
- 52. United States Environmental Protection Agency, Office of Air and Radiation, Regulatory Impact Analysis for the NO_x SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, September 1998;
- 53. Waible, R., Price, D., Tish, P., Halpern, M., "Advanced Burner Technology for Stringent NOx Regulations", presented at the American Petroleum Institute Midyear Refining Meeting, Orlando, FL, May 8, 1990;
- 54. Nguyen, Quang, Koppang, Richard, Energy and Environmental Research Corporation, Advanced Steel Reheat Furnaces Research and Development, Final Report, prepared for U.S. Department of Energy, January 14, 1999;
- 55. Rowlan, Steven J. and Sun, William H., "NO_x Control on Preheat and Radiant Furnaces at Nucor Steel Mills through Urea SNCR, SCR, and Hybrid Processes", presented at ICAC Forum, Houston, TX, February 12-13, 2002. http://www.icac.com/Files/Rowlan.pdf;
- 56. Kobayashi, H., "Advances in Oxy-Fuel Fired Glass Melting Technology", presented at XX International Congress on Glass (ICG), Kyoto, Japan, September 26- October 1, 2004;
- 57. http://wwwl.eere.energy.gov/industry/glass/pdfs/airstaging.pdf;
- 58. http://www.gastechnology.org/webroot/app/xn/xd.aspx?it=enweb&xd=4reportspubs%5C4 8focus%5Coxygenenrichedairstaging.xml;
- 59. http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=616314;
- 60. Midwest RPO Candidate Control Measures, Interim White Paper, Source Category: Glass Manufacturing, December 2, 2005;

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- 61. Energetics, Inc., Energy and Environmental Profile of the U.S. Aluminum Industry, prepared for U.S. Department of Energy, July 1997;
- 62. http://wwwl.eere.energy.gov/industry/aluminum/pdfs/aluminum.pdf;
- 63. Schalles, David G., The Next Generation of Combustion Technology for Aluminum Melting, undated. http://www.bloomeng.com/tmspaper-FINAL.doc;
- 64. http://www.bloomeng.com/11501umiflame.pdf;
- 65. http://www.eere.energy.gov/industry/combustion/pdfs/oscllcomb.pdf;
- 66. California South Coast Rule 2002, Allocations for oxides of Nitrogen (NO_x) and oxides of Sulfur (SO_x), amended January 7, 2005;
- 67. http://www.epa.gov/ttn/emc/cem.html; and
- 68. Alternative Control Techniques Document NO_x Emissions from Cement Manufacturing, EPA-453/R-94-004, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, March 1994.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other proposed rulemakings pending on this Part?

Section Number: Proposed Action: Illinois Register Citation: 211.1920 Amend 32 Ill. Reg. 17055 (Oct. 31, 2008)

- 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)].
- 12) <u>Time, Place, and Manner in which interested persons may comment on this proposed rulemaking</u>: 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

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R08-19 and be addressed to:

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

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

For more information contact Tim Fox at 312/814-6085 or email at foxt@ipcb.state.il.us.

- 13) <u>Initial Regulatory Flexibility Analysis</u>: In Part 211, the Agency proposes to add twelve new definitions of terms employed in the proposed new Sections of Part 217.
 - A) Types of small businesses, small municipalities and not for profit corporations affected: None expected.
 - 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 make reports as required.
 - 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: July 2006

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

TITLE 35: ENVIRONMENTAL PROTECTION SUBTITLE B: AIR POLLUTION CHAPTER I: POLLUTION CONTROL BOARD SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS FOR STATIONARY SOURCES PART 211 DEFINITIONS AND GENERAL PROVISIONS SUBPART A: GENERAL PROVISIONS Section 211.101 Incorporations by Reference 211.102 Abbreviations and Conversion Factors SUBPART B: DEFINITIONS Section
211.121 Other Definitions
211.122 Definitions (Repealed)
211.130 Accelacota
211.150 Accumulator
211.170 Acid Gases
211.210 Actual Heat Input
211.230 Adhesive
211.240 Adhesion Promoter
211.250 Aeration
211.270 Aerosol Can Filling Line Section 211.270 Aerosol Can Filling Line 211.290 Afterburner 211.310 Air Contaminant 211.330 Air Dried Coatings Air Oxidation Process 211.350 Air Pollutant 211.370 211.390 Air Pollution 211.410 Air Pollution Control Equipment 211.430 Air Suspension Coater/Dryer 211.450 Airless Spray 211.470 Air Assisted Airless Spray Alcohol 211.474 Allowance 211.479 Animal 211.484 211.485 Animal Pathological Waste 211.490 Annual Grain Through-Put 211.495 Anti-Glare/Safety Coating 211.510 Application Area 211.530 Architectural Coating As Applied 211.550 211.560 As-Applied Fountain Solution Asphalt 211.570 211.590 Asphalt Prime Coat Automobile 211.610 Automobile or Light-Duty Truck Assembly Source or Automobile or 211.630 Light-Duty Truck Manufacturing Plant Automobile or Light-Duty Truck Refinishing 211.650 211.660 Automotive/Transportation Plastic Parts 211.665 Auxiliary Boiler

211.670

Baked Coatings

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211.680
           Bakery Oven
211.685
           Basecoat/Clearcoat System
          Batch Loading
211.690
        Batch Operation
211.695
          Batch Process Train
211.696
          Bead-Dipping
211.710
211.730
          Binders
          Brakehorsepower (rated-bhp)
211.740
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
        Can Coating
211.850
         Can Coating Line
211.870
211.890
         Capture
211.910
         Capture Device
211.930
         Capture Efficiency
211.950
          Capture System
211.953
           Carbon Adsorber
211.955
           Cement
           Cement Kiln
211.960
211.970
           Certified Investigation
           Chemical Manufacturing Process Unit
211.980
          Choke Loading
211.990
          Circulating Fluidized Bed Combustor
211.995
211.1010 Clean Air Act
211.1050
         Cleaning and Separating Operation
          Cleaning Materials
211.1070
211.1090
          Clear Coating
211.1110
          Clear Topcoat
          Clinker
211.1120
211.1130 Closed Purge System
211.1150 Closed Vent System
          Coal Refuse
211.1170
          Coating
211.1190
           Coating Applicator
211.1210
          Coating Line
211.1230
          Coating Plant
211.1250
211.1270 Coil Coating
          Coil Coating Line
211.1290
          Cold Cleaning
211.1310
           Combined Cycle System
211.1312
           Combustion Tuning
211.1315
           Combustion Turbine
211.1316
           Commence Commercial Operation
211.1320
           Commence Operation
211.1324
211.1328
          Common Stack
211.1330
           Complete Combustion
211.1350
           Component
           Concrete Curing Compounds
211.1370
211.1390
           Concentrated Nitric Acid Manufacturing Process
211.1410
          Condensate
          Condensible PM-10
211.1430
          Container Glass
211.1435
           Continuous Automatic Stoking
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211.1465

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211.1467
           Continuous Coater
211.1470 Continuous Process
211.1490 Control Device
211.1510 Control Device Efficiency
211.1515 Control Period
211.1520 Conventional Air Spray
211.1530 Conventional Soybean Crushing Source
211.1550 Conveyorized Degreasing
211.1570 Crude Oil
211.1590 Crude Oil Gathering
         Crushing
211.1610
         Custody Transfer
211.1630
211.1650 Cutback Asphalt
211.1670 Daily-Weighted Average VOM Content
211.1690 Day
211.1710 Degreaser
211.1730
         Delivery Vessel
         Diesel Engine
211.1740
211.1750
         Dip Coating
         Distillate Fuel Oil
211.1770
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
         Electrostatic Spray
211.1910
         Emergency or Standby Unit
211.1920
         Emission Rate
211.1930
         Emission Unit
211.1950
211.1970
         Enamel
211.1990 Enclose
211.2010 End Sealing Compound Coat
         Enhanced Under-the-Cup Fill
Ethanol Blend Gasoline
211.2030
211.2050
         Excess Air
211.2070
211.2080 Excess Emissions
211.2090 Excessive Release
211.2110 Existing Grain-Drying Operation (Repealed)
211.2130 Existing Grain-Handling Operation (Repealed)
211.2150
         Exterior Base Coat
211.2170
           Exterior End Coat
         External Floating Roof
211.2190
211.2210 Extreme Performance Coating
211.2230 Fabric Coating
211.2250 Fabric Coating Line
211.2270 Federally Enforceable Limitations and Conditions
         Feed Mill
211.2285
         Fermentation Time
211.2290
211.2300
           Fill
211.2310 Final Repair Coat
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211.2330 Firebox
211.2350 Fixed-Roof Tank
211.2355 Flare
211.2357
         Flat Glass
         Flexible Coating
211.2360
         Flexible Operation Unit
211.2365
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
         Freeboard Height
211.2450
        Fuel Combustion Emission Unit or Fuel Combustion Emission Source
211.2470
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
        Generator
211.2620
211.2625
        Glass Melting Furnace
211.2630
        Gloss Reducers
211.2650 Grain
211.2670 Grain-Drying Operation
         Grain-Handling and Conditioning Operation
211.2690
        Grain-Handling Operation
211.2710
211.2730 Green-Tire Spraying
211.2750 Green Tires
211.2770 Gross Heating Value
211.2790 Gross Vehicle Weight Rating
        Heated Airless Spray
211.2810
211.2815
         Heat Input
211.2820
          Heat Input Rate
        Heatset
211.2830
211.2850 Heatset Web Offset Lithographic Printing Line
211.2870 Heavy Liquid
211.2890 Heavy Metals
211.2910
        Heavy Off-Highway Vehicle Products
           Heavy Off-Highway Vehicle Products Coating
211.2930
211.2950
          Heavy Off-Highway Vehicle Products Coating Line
211.2970
          High Temperature Aluminum Coating
211.2990
          High Volume Low Pressure (HVLP) Spray
          Hood
211.3010
211.3030
          Hot Well
211.3050
          Housekeeping Practices
211.3070
           Incinerator
           Indirect Heat Transfer
211.3090
          Industrial Boiler
211.3100
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
           Internal Transferring Area
211.3210
211.3230
          Lacquers
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211.3250
           Large Appliance
211.3270
           Large Appliance Coating
211.3290
           Large Appliance Coating Line
211.3300
          Lean-Burn Engine
211.3310
         Light Liquid
         Light-Duty Truck
211.3330
         Light Oil
211.3350
         Lime Kiln
211.3355
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
211.3475
         Load Shaving Unit
211.3480
         Loading Event
211.3483
           Long Dry Kiln
211.3485
           Long Wet Kiln
211.3487
           Low-NOx Burner
211.3490
          Low Solvent Coating
211.3500
           Lubricating Oil
211.3510
           Magnet Wire
211.3530
           Magnet Wire Coating
           Magnet Wire Coating Line
211.3550
211.3570
           Major Dump Pit
           Major Metropolitan Area (MMA)
211.3590
           Major Population Area (MPA)
211.3610
211.3620 Manually Operated Equipment
211.3630 Manufacturing Process
211.3650 Marine Terminal
          Marine Vessel
211.3660
211.3670
           Material Recovery Section
211.3690
           Maximum Theoretical Emissions
         Maximum True Vapor Pressure
211.3695
211.3710
         Metal Furniture
211.3730
           Metal Furniture Coating
           Metal Furniture Coating Line
211.3750
           Metallic Shoe-Type Seal
211.3770
           Mid-Kiln Firing
211.3780
211.3790
           Miscellaneous Fabricated Product Manufacturing Process
           Miscellaneous Formulation Manufacturing Process
211.3810
           Miscellaneous Metal Parts and Products
211.3830
          Miscellaneous Metal Parts and Products Coating
211.3850
           Miscellaneous Metal Parts or Products Coating Line
211.3870
211.3890
           Miscellaneous Organic Chemical Manufacturing Process
           Mixing Operation
211.3910
211.3915
           Mobile Equipment
           Monitor
211.3930
           Monomer
211.3950
           Motor Vehicles
211.3960
211.3965
           Motor Vehicle Refinishing
211.3970
           Multiple Package Coating
211.3980
           Nameplate Capacity
211.3990
           New Grain-Drying Operation (Repealed)
           New Grain-Handling Operation (Repealed)
211.4010
           No Detectable Volatile Organic Material Emissions
211.4030
211.4050
           Non-Contact Process Water Cooling Tower
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Non-Flexible Coating
211.4055
211.4065
           Non-Heatset
211.4067
         NOx Trading Program
211.4070
         Offset
211.4090
           One Hundred Percent Acid
           One-Turn Storage Space
211.4110
211.4130
           Opacity
211.4150
           Opaque Stains
211.4170
           Open Top Vapor Degreasing
           Open-Ended Valve
211.4190
211.4210
           Operator of a Gasoline Dispensing Operation or Operator of a
Gasoline Dispensing Facility
         Organic Compound
211.4230
           Organic Material and Organic Materials
211.4250
211.4260
           Organic Solvent
211.4270
           Organic Vapor
           Other Glass
211.4280
211.4290
           Oven
           Overall Control
211.4310
211.4330
           Overvarnish
           Owner of a Gasoline Dispensing Operation or Owner of a Gasoline
211.4350
Dispensing Facility
211.4370
          Owner or Operator
           Packaging Rotogravure Printing
211.4390
211.4410
           Packaging Rotogravure Printing Line
211.4430
          Pail
           Paint Manufacturing Source or Paint Manufacturing Plant
211.4450
211.4470
           Paper Coating
211.4490
           Paper Coating Line
211.4510
           Particulate Matter
          Parts Per Million (Volume) or PPM (Vol)
211.4530
211.4550
          Person
211.4590
          Petroleum
211.4610
           Petroleum Liquid
           Petroleum Refinery
211.4630
211.4650
           Pharmaceutical
         Pharmaceutical Coating Operation
211.4670
211.4690 Photochemically Reactive Material
211.4710
         Pigmented Coatings
211.4730
          Plant
211.4740
           Plastic Part
211.4750
           Plasticizers
211.4770
           PM-10
211.4790
           Pneumatic Rubber Tire Manufacture
           Polybasic Organic Acid Partial Oxidation Manufacturing Process
211.4810
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
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Preheater/Precalciner Kiln
211.5020
           Pressure Release
211.5030
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211.APPENDIX A Rule into Section Table 211.APPENDIX B Section into Rule Table

Tread End Cementing

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AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28].

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. Req. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Req. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg. 16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995; amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill. Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695, effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997; amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill. Reg. Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-119 at 25 Ill. Reg. 4597, 108, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4582, effective March 15, 2001; amended in R01-17 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg. 14254, effective September 25, 2007; amended in R08-066 at 32 Ill. Reg. 1387, effective January 16, 2008; amended in R08-19 at 33 Ill. Reg. ____, effective __

SUBPART B: DEFINITIONS

Section 211.665 Auxiliary Boiler

"Auxiliary boiler" means, for purposes of Part 217, a boiler that is operated only when the main boiler or boilers at a source are not in service and is used either to maintain building heat or to assist in the startup of the main boiler or boilers. This term does not include emergency or standby units and load shaving units.

(Source:	Added	at	33	Ill.	Req.	_, effective —	

Section 211.995 Circulating Fluidized Bed Combustor

"Circulating fluidized bed combustor" means, for purposes of Part 217, a fluidized bed combustor in which the majority of the fluidized bed material is carried out of the primary combustion zone and is transported back to the primary zone through a recirculation loop.

(Source:	Added	at	33	Ill.	Req.	 effective	

Section 211.1315 Combustion Tuning

"Combustion tuning" means, for purposes of Part 217, review and adjustment of a combustion process to maintain combustion efficiency of an emission unit, as

trained tec	chnician	1.	
(So	ource:	Added at 33 Ill. Reg, effective)
Section 211	1435	Container Glass	
recipe, cle	ear or c	means, for purposes of Part 217, glass made of soda- colored, which that is pressed or blown, or both, into d other products listed in Standard Industrial Class:	bottles,
(Son	ource:	Added at 33 Ill. Reg, effective)
Section 211	2355	Flare	
"Fla	.are" me	ans an open combustor without enclosure or shroud.	
(Soi	ource:	Added at 33 Ill. Reg, effective)
Section 211	2357	Flat Glass	
produced in	to cont	, for purposes of Part 217, glass made of soda-lime rinuous flat sheets and other products listed in Standication 3211.	
(Soi	ource:	Added at 33 Ill. Reg, effective)
Section 211	2625	Glass Melting Furnace	
refractory v	vessel	nace" means, for purposes of Part 217, a unit comprision which raw materials are charged and melted at high duce molten glass.	
(Soi	ource:	Added at 33 Ill. Reg, effective)
Section 211	.3100	Industrial Boiler	
water is head for power, of that capture generator the electricity	ated and or both es wast hat has for sa	" means, for purposes of Part 217, an enclosed vessed circulated either as hot water or as steam for head. This term does not include a heat recovery steam of the end from a combustion turbine and boilers serving a nameplate capacity greater than 25 MWe and produce le, and cogeneration units, if such boilers meet the eria under Subpart M of Part 217.	ting or generator a
(Sou	urce:	Added at 33 Ill. Reg, effective)
Section 211.	.3355	Lime Kiln	
		for purposes of Part 217, an enclosed combustion ded d, which consists primarily of calcium carbonate, in	
(Sou	urce: 2	Added at 33 Ill. Reg, effective)
Section 211.	.3475	Load Shaving Unit	

performed in accordance with procedures provided by the manufacturer or by a

limited		nary recipi					luding but turbines.
	(Source:	Added at 3	33 Ill. Re	eg	, effective	<u> </u>)
Section	211.4280	Other Glas	ss				
glass, a	as that te	ns, for pur erm is defir tion 211.23	ned in Sec				
	(Source:	Added at 3	3 Ill. Re	eg	, effective	<u> </u>)
Section	211.5195	Process He	ater				
that bur process include	ns gaseou fluid or pipeline	means, for is or liquid a heat tranheaters and tacertain	l fuels or asfer medi l storage	nly and th ium other tank heat	at indirect than water. ers that ar	ly transf This te	ers heat term does no
	(Source:	Added at 3	3 Ill. R€	eg	, effective	:)
ILLINOIS	REGISTER						
POLLUTIO	N CONTROL	BOARD					
NOTICE C	F PROPOSE	D AMENDMENT	'S				
	JCAR3	50211-09068	<u>96r01</u>				
ILLINOIS	RECISTER						
DOLI HEEL	N CONTROL	-BOARD					
TODDOLLO							

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282	211.3990	New Grain-Drying Operation (Repealed)
283	211.4010	New Grain-Handling Operation (Repealed)
284	211.4030	No Detectable Volatile Organic Material Emissions
285	211.4050	Non-Contact Process Water Cooling Tower
286	211.4055	Non-Flexible Coating
287	211.4065	Non-Heatset
288	211.4067	NO _x Trading Program
289	211.4070	Offset
290	211.4090	One Hundred Percent Acid
291	211.4110	One-Turn Storage Space
292	211.4130	Opacity
293	211.4150	Opaque Stains
294	211.4170	Open Top Vapor Degreasing
295	211.4190	Open-Ended Valve
296	211.4210	Operator of a Gasoline Dispensing Operation or Operator of a Gasoline
297		Dispensing Facility
298	211.4230	Organic Compound
299	211.4250	Organic Material and Organic Materials
300	211.4260	Organic Solvent
301	211.4270	Organic Vapor

	302	211 4280	Other Glass
304 211.4310 Overall Control 305 211.4330 Overvamish 307 Cowner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing Facility 308 211.4370 Owner or Operator 309 211.4390 Packaging Rotogravure Printing Line 311 211.4430 Pail 312 211.4450 Paint Manufacturing Source or Paint Manufacturing Plant 313 211.4470 Paper Coating 314 211.4490 Paper Coating Line 315 211.4510 Parts Per Million (Volume) or PPM (Vol) 317 211.4530 Petroleum 318 211.4590 Petroleum Liquid 319 211.4610 Petroleum Refinery 321 211.4670 Pharmaceutical Coating Operation 322 211.4670 Pharmaceutical Coatings 323 211.4790 Plastic Part 324 211.4710 Plastic Part 325 211.4730 Plastic Part 326 211.4790 Polyester Resin Material(s) 32		211.4280 211.4200	
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340 211.4990 Power Driven Fastener Coating 341 211.5010 Precoat 342 211.5015 Preheater Kiln 343 211.5020 Preheater/Precalciner Kiln	338	211.4960	Potential Electrical Output Capacity
341 211.5010 Precoat 342 211.5015 Preheater Kiln 343 211.5020 Preheater/Precalciner Kiln	339	211.4970	Potential to Emit
342 211.5015 Preheater Kiln 343 211.5020 Preheater/Precalciner Kiln	340	211.4990	Power Driven Fastener Coating
343 211.5020 Preheater/Precalciner Kiln	341	211.5010	Precoat
	342	211.5015	Preheater Kiln
344 211.5030 Pressure Release	343	211.5020	Preheater/Precalciner Kiln
	344	211.5030	Pressure Release

345	211.5050	Pressure Tank
346	211.5060	Pressure/Vacuum Relief Valve
347	211.5061	Pretreatment Wash Primer
348	211.5065	Primary Product
349	211.5070	Prime Coat
350	211.5080	Primer Sealer
351	211.5090	Primer Surfacer Coat
352	211.5110	Primer Surfacer Operation
353	211.5130	Primers
354	211.5150	Printing
355	211.5170	Printing Line
356	211.5185	Process Emission Source
357	211.5190	Process Emission Unit
358	<u>211.5195</u>	Process Heater
359	211.5210	Process Unit
360	211.5230	Process Unit Shutdown
361	211.5245	Process Vent
362	211.5250	Process Weight Rate
363	211.5270	Production Equipment Exhaust System
364	211.5310	Publication Rotogravure Printing Line
365	211.5330	Purged Process Fluid
366	211.5340	Rated Heat Input Capacity
367	211.5350	Reactor
368	211.5370	Reasonably Available Control Technology (RACT)
369	211.5390	Reclamation System
370	211.5410	Refiner
371	211.5430	Refinery Fuel Gas
372	211.5450	Refinery Fuel Gas System
373	211.5470	Refinery Unit or Refinery Process Unit
374		
375	211.5480	Reflective Argent Coating
	211.5480 211.5490	Refrigerated Condenser
376		
376 377	211.5490 211.5500 211.5510	Refrigerated Condenser
	211.5490 211.5500 211.5510 211.5530	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair
377 378 379	211.5490 211.5500 211.5510 211.5530 211.5550	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat
377 378 379 380	211.5490 211.5500 211.5510 211.5530	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired
377 378 379 380 381	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering
377 378 379 380 381 382	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil
377 378 379 380 381 382 383	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590 211.5600	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil Resist Coat
377 378 379 380 381 382 383 384	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590 211.5600 211.5610	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil Resist Coat Restricted Area
377 378 379 380 381 382 383 384 385	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590 211.5600 211.5610 211.5630	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil Resist Coat Restricted Area Retail Outlet
377 378 379 380 381 382 383 384 385 386	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590 211.5600 211.5610 211.5630 211.5640	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil Resist Coat Restricted Area Retail Outlet Rich-Burn Engine
377 378 379 380 381 382 383 384 385	211.5490 211.5500 211.5510 211.5530 211.5550 211.5570 211.5580 211.5590 211.5600 211.5610 211.5630	Refrigerated Condenser Regulated Air Pollutant Reid Vapor Pressure Repair Repair Coat Repaired Repowering Residual Fuel Oil Resist Coat Restricted Area Retail Outlet

388	211.5670	Roadway
389	211.5690	Roll Coater
390	211.5030	Roll Coating
391	211.5710	Roll Printer
392	211.5750	Roll Printing
393	211.5770	Rotogravure Printing
394	211.5790	Rotogravure Printing Line
395	211.5810	Safety Relief Valve
396	211.5830	Sandblasting
397	211.5850	Sanding Sealers
398	211.5870	Screening
399	211.5880	Screen Printing on Paper
400	211.5890	Sealer
401	211.5910	Semi-Transparent Stains
402	211.5930	Sensor
403	211.5950	Set of Safety Relief Valves
404	211.5970	Sheet Basecoat
405	211.5980	Sheet-Fed
406	211.5990	Shotblasting
407	211.6010	Side-Seam Spray Coat
408	211.6025	Single Unit Operation
409	211.6030	Smoke
410	211.6050	Smokeless Flare
411	211.6060	Soft Coat
412	211.6070	Solvent
413	211.6090	Solvent Cleaning
414	211.6110	Solvent Recovery System
415	211.6130	Source
416	211.6140	Specialty Coatings
417	211.6145	Specialty Coatings for Motor Vehicles
418	211.6150	Specialty High Gloss Catalyzed Coating
419	211.6170	Specialty Leather
420	211.6190	Specialty Soybean Crushing Source
421	211.6210	Splash Loading
422	211.6230	Stack
423	211.6250	Stain Coating
424	211.6270	Standard Conditions
425	211.6290	Standard Cubic Foot (scf)
426	211.6310	Start-Up
427	211.6330	Stationary Emission Source
428	211.6350	Stationary Emission Unit
429	211.6355	Stationary Gas Turbine
430	211.6360	Stationary Reciprocating Internal Combustion Engine
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431	211.6370	Stationary Source
432	211.6390	Stationary Storage Tank
433	211.6400	Stencil Coat
434	211.6410	Storage Tank or Storage Vessel
435	211.6420	Strippable Spray Booth Coating
436	211.6430	Styrene Devolatilizer Unit
437	211.6450	Styrene Recovery Unit
438	211.6470	Submerged Loading Pipe
439	211.6490	Substrate
440	211.6510	Sulfuric Acid Mist
441	211.6530	Surface Condenser
442	211.6540	Surface Preparation Materials
443	211.6550	Synthetic Organic Chemical or Polymer Manufacturing Plant
444	211.6570	Tablet Coating Operation
445	211.6580	Texture Coat
446	211.6590	Thirty-Day Rolling Average
447	211.6610	Three-Piece Can
448	211.6620	Three or Four Stage Coating System
449	211.6630	Through-the-Valve Fill
450	211.6650	Tooling Resin
451	211.6670	Topcoat
452	211.6690	Topcoat Operation
453	211.6695	Topcoat System
454	211.6710	Touch-Up
455	211.6720	Touch-Up Coating
456	211.6730	Transfer Efficiency
457	211.6750	Tread End Cementing
458	211.6770	True Vapor Pressure
459	211.6790	Turnaround
460	211.6810	Two-Piece Can
461	211.6830	Under-the-Cup Fill
462	211.6850	Undertread Cementing
463	211.6860	Uniform Finish Blender
464	211.6870	Unregulated Safety Relief Valve
465	211.6880	Vacuum Metallizing
466	211.6890	Vacuum Producing System
467	211.6910	Vacuum Service
468	211.6930	Valves Not Externally Regulated
469	211.6950	Vapor Balance System
470	211.6970	Vapor Collection System
471	211.6990	Vapor Control System
472	211.7010	Vapor-Mounted Primary Seal
473	211.7030	Vapor Recovery System
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475
                      Vinyl Coating
       211.7070
476
       211.7090
                      Vinyl Coating Line
       211.7110
                      Volatile Organic Liquid (VOL)
477
478
       211.7130
                      Volatile Organic Material Content (VOMC)
479
       211.7150
                      Volatile Organic Material (VOM) or Volatile Organic Compound (VOC)
480
       211.7170
                      Volatile Petroleum Liquid
       211.7190
                      Wash Coat
481
482
       211.7200
                      Washoff Operations
483
       211.7210
                     Wastewater (Oil/Water) Separator
484
       211.7230
                      Weak Nitric Acid Manufacturing Process
485
       211.7250
                      Web
486
       211.7270
                     Wholesale Purchase - Consumer
487
       211.7290
                      Wood Furniture
488
       211.7310
                      Wood Furniture Coating
                     Wood Furniture Coating Line
489
       211.7330
                      Woodworking
490
       211.7350
491
       211.7400
                      Yeast Percentage
492
493
                            Rule into Section Table
       211.APPENDIX A
494
       211.APPENDIX B
                            Section into Rule Table
495
496
       AUTHORITY: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28
497
       of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28].
498
499
       SOURCE: Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191,
500
       filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p.
501
       777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30,
502
       p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21,
503
       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
504
       R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804,
505
506
       effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective
507
       December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended
508
       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,
509
       1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-
510
511
       30(B) at 15 III. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 III. Reg. 7901,
       effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991;
512
513
       amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16
514
       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
515
       R93-11 at 17 III. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 III. Reg.
516
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Vapor-Suppressed Polyester Resin

474

211.7050

517	1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September
518	21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in
519	R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg.
520	16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg.
521	6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995;
522	amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill.
523	Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May
524	22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-
525	17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695,
526	effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997;
527	amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill.
528	Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 108, effective December
529	26, 2000; amended in R01-11 at 25 Ill. Reg. 4582, effective March 15, 2001; amended in R01-17
530	at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective
531	May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in
532	R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg.
533	14254, effective September 25, 2007; amended in R08-6 at 32 Ill. Reg. 1387, effective January
534	16, 2008; amended in R08-19 at 33 Ill. Reg, effective
535	
536	SUBPART B: DEFINITIONS
537	
538	Section 211.665 Auxiliary Boiler
539	
540	"Auxiliary boiler" means, for purposes of Part 217, a boiler that is operated only
541	when the main boiler or boilers at a source are not in service and is used either to
542	maintain building heat or to assist in the startup of the main boiler or boilers. This
543	term does not include emergency or standby units and load shaving units.
544	
545	(Source: Added at 33 Ill. Reg, effective)
546	
547	Section 211.995 Circulating Fluidized Bed Combustor
548	
549	"Circulating fluidized bed combustor" means, for purposes of Part 217, a
550	fluidized bed combustor in which the majority of the fluidized bed material is
551	carried out of the primary combustion zone and is transported back to the primary
552	zone through a recirculation loop.
553	
554	(Source: Added at 33 Ill. Reg, effective)
555	
556	Section 211.1315 Combustion Tuning
557	
558	"Combustion tuning" means, for purposes of Part 217, review and adjustment of a
559	combustion process to maintain combustion efficiency of an emission unit, as

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glass made of soda-lime
both, into bottles, jars,
ustrial Classification 3221.
e or shroud.
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nade of soda-lime recipe and
acts listed in Standard
icts fisted in Standard
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<i>-</i>
217, a unit comprising a
and melted at high
an enclosed vessel in which
as steam for heating or for
covery steam generator that
poilers serving a generator that
produces electricity for sale,

602	and cogeneration units, if such boilers meet the applicability criteria under
603	Subpart M of Part 217.
604	
605 606	(Source: Added at 33 Ill. Reg, effective)
607	Section 211.3355 Lime Kiln
608	
609	"Lime kiln" means, for purposes of Part 217, an enclosed combustion device used
610	to calcine lime mud, which consists primarily of calcium carbonate, into calcium
611	oxide.
612	
613	(Source: Added at 33 Ill. Reg, effective)
614	
615	Section 211.3475 Load Shaving Unit
616	
617	"Load shaving unit" means, for purposes of Part 217, a device used to generate
618	electricity for sale or use during high electric demand days, including but not
619	limited to stationary reciprocating internal combustion engines or turbines.
620	(C
621	(Source: Added at 33 Ill. Reg, effective)
622	Castion 211 4290 Other Class
623	Section 211.4280 Other Glass
624 625	"Other close" means for assurance of Dout 217 place that is weith as courtein as 1
626	"Other glass" means, for purposes of Part 217, glass that is neither container glass, as that term is defined
627	in Section 211.2357.
628	<u>III Section 211.2557.</u>
629	(Source: Added at 33 Ill. Reg, effective)
630	(Source: Added at 33 III. Reg, effective)
631	Section 211.5195 Process Heater
632	Section 211.51/5 Trocess freater
633	"Process heater" means, for purposes of Part 217, an enclosed combustion device
634	that burns gaseous or liquid fuels only and that indirectly transfers heat to a
635	process fluid or a heat transfer medium other than water. This term does not
636	include pipeline heaters and storage tank heaters that are primarily meant to
637	maintain fluids at a certain temperature or viscosity.
638	
639	(Source: Added at 33 Ill. Reg, effective)

NOTICE OF PROPOSED AMENDMENTS

1) <u>Heading of the Part</u>: Nitrogen Oxides Emissions

CLERK'S OFFICE

STATE OF ILLINOIS Pollution Control Board

2)	Code Citation: 35 Ill. Adm.	Code 217
3)	Section Numbers:	Proposed Action:
	217.100	Amended
	217.104	Amended
	217.121	Repealed
	217.141	Amended
	217.150	New Section
	217.152	New Section
	217.154	New Section
	217.155	New Section
	217.156	New Section
	217.157	New Section
	217.158	New Section
	217.160	New Section
	217.162	New Section
	217.164	New Section
	217.165	New Section
	217.166	New Section
	217.180	New Section
	217.182	New Section
	217.184	New Section
	217.185	New Section
	217.186	New Section
	217.200	New Section
	217.202	New Section
	217.204	New Section
	217.220	New Section
ŧ	217.222	New Section
	217.224	New Section
	217.240	New Section
	217.242	New Section
	217.244	New Section
	217.340	New Section
	217.342	New Section
	217.344	New Section
	217.345	New Section

New Section

217.APPENDIX H

NOTICE OF PROPOSED AMENDMENTS

- 4) <u>Statutory Authority</u>: Implementing Section 10 and authorized by Sections 27 and 28 of the Environmental Protection Act [415 ILCS 5/10, 27, and 28]
- 5) A Complete Description of the Subjects and Issues Involved: The Board's May 7, 2009 opinion and order (Amendments to 35 Ill. Adm. Code 217, Nitrogen Oxides Emissions, and 35 Ill. Adm. Code 211, R08-19, slip op. at 27-58 (summarizing twelve proposed new definitions)) discusses in details the amendments to Part 217 proposed in this rulemaking.

This rulemaking is based on a proposal filed with the Board by the Illinois Environmental Protection Agency (Agency) on May 9, 2008. The Agency proposes to amend Parts 211 and 217 of the Board's air pollution regulations (35 Ill. Adm. Code 211, 217) to control nitrogen oxides (NO_x) emissions from major stationary sources in the nonattainment areas and from emission units including industrial boilers, process heaters, glass melting furnaces, cement kilns, lime kilns, furnaces used in steelmaking and aluminum melting, and fossil fuel-fired stationary boilers at such sources.

On April 2, 2009, the Board granted the Agency's motion to expedite review of this proposal in order to meet federal deadlines for submission of State Implementation Plans for NO_x. In its May 7, 2009, opinion and order, the Board stated that, having granted the motion for expedited review, it is highly unlikely to grant any motion for an extension of the first-notice comment period. The Board strongly encouraged participants who wish to file a public comment to do so within the statutory 45-day period.

- 6) <u>Published studies or reports, and sources of underlying data, used to compose this rulemaking</u>: The Agency stated that it relied on the following 68 sources in preparing its proposal to the Board:
 - 1. The Clean Air Act, as amended in 1990 (42 USC 7401 et seq.);
 - 2. Illinois Environmental Protection Act (415 ILCS 5);
 - 3. Energy & Environmental Analysis, Inc., "Characterization of the U.S. Boiler Industrial Commercial Boiler Population", submitted to Oak Ridge National Laboratory, May 2005;
 - 4. http://commons.wikimedia.org/wiki/Image:Water tube boiler schematic.png;
 - 5. http://en.wikipedia.org/wiki/Image:Locomotive fire tube boiler schematic.png;

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- 6. Babcock & Wilcox Company; Steam, It's Generation and Use, 40th Edition, 1992;
- 7. Neil Johnson, "Fundamentals of Stoker Fired Boiler Design and Operation", presented at CIBO Emission Controls Technology Conference, July 15-17, 2002;
- 8. Letter to Mr. Regulator, New Hampshire Division of Environmental Services, from Daniel J. Willems, Product Development, Cleaver Brooks, dated May 19, 2006;
- 9. http://wwwl.eere.energy.gov/industry/bestpractices/pdfs/steam4_boiler_efficiency.pdf;
- 10. http://www.energysolutionscenter.org/boilerburner/Eff_Improve/ Efficiency/Oxygen_Control.asp;
- 11. http://files.asme.org/asmeorg/Codes/CertifAccred/Personnel/2971.pdf;
- 12. http://www.coen.com/i html/white lowcostnoxpm.html;
- 13. Rajani Varagani (n.d.), "A Cost Effective Low NO_x Retrofit Technology for Industrial Boilers", cited within CIBO Industrial Emissions Control Technology III, August 1-3, 2005;
- 14. Email from Jim Staudt, Andover Technology, to R. Gifford Broderick, Combustion Components Associates, Based on estimate for a 4-burner project, dated October 16, 2003;
- 15. http://www.johnzink.com/products/burners/html_todd/burn_todd_cs_104.htm;
- 16. Sacramento General Services Heating Plant Case Study: COEN web site: http://www.coen.com/mrktli/ibrochures/pdf/qla.pdf;
- 17. Zink, John (2003) "U.S. Borax TODD Ultra Low Emissions Burner Installment";
- 18. Zink, John (2003) "TODD Ultra Low Emissions Burner Installment";
- 19. Coen Company, "Ultra Low NO_x Gas-Fired Burner with Air Preheat", Final Report, prepared for California Air Resources Board, November 23, 2000;
- 20. Memorandum from Jim Staudt, Andover Technology Partners, to Sikander Khan,

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United States Environmental Protection Agency, providing comments in response to September 10, 2003 email, dated October 24, 2003;

- 21. Memorandum from Chad Whiteman, Institute of Clean Air Companies to Christopher Recchia, Ozone Transport Commission, regarding Selective Non-Catalytic Reduction Technology Costs for Industrial Sources, dated October 6, 2006;
- 22. Northeast States for Coordinated Air Use Management (NESCAUM), "Status Report on NO_x: Control Technologies and Cost Effectiveness for Utility Boilers", prepared by Jim Staudt, Andover Technology Partners, June 1998;
- 23. Northeast States for Coordinated Air Use Management (NESCAUM), "Status Report on NO_x Controls", prepared by Jim Staudt, Andover Technology Partners, December 2000 ("NESCAUM 2000 report");
- 24. Institute to Clean Air Companies, Inc., "White Paper: Selective Catalytic Reduction (SCR) Control of NO_x Emissions", November 1997;
- 25. http://www.cormetech.com/experience.htm;
- 26. "Economic Indicators", Chemical Engineering, p. 102, September 2006;
- 27. Vatatuck, William M., "Updating the CE Plant Cost Index", Chemical Engineering, p. 69, January 2002;
- 28. State and Territorial Air Pollution (STAPPA) and Association of Local Air Pollution Control Offices (ALAPCO), "Controlling Fine Particulate Matter Under the Clean Air Act: A Menu of Options", March 2006;
- 29. Erickson, C., and Staudt, J., "Selective Catalytic Reduction System Performance and Reliability Review", presented at the EPRI-EPA-DOE-AWMA Combined Utility Air Pollution Control Conference, the Mega Conference, Baltimore, August 28-31, 2006;
- 30. Cichanowicz, E.J., "Current Capital Cost and Cost-Effectiveness of Power Plant Emissions Control Technologies", prepared for Utility Air Regulatory Group, June 2007.
- 31. http://www.mobotecusa.com/projects/vermillion-sellsheet.pdf;

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- 32. http://www.mobotecusa.com/projects/capefear6-sellsheet.pdf;
- 33. STAPPA/ALAPCO, "Controlling Nitrogen Oxides under the Clean Air Act: A Menu of Options", July 1994;
- 34. Khan, Sikander, United States Environmental Protection Agency, "Methodology, Assumptions, and References Preliminary NO_x Controls Cost Estimates for Industrial Boilers", October-November 2003;
- 35. MACTEC Federal Programs/MACTEC Engineering and Consulting, Inc., "Midwest Regional Planning Organization (RPO): Petroleum Refinery Best Available Retrofit Technology (BART)", Engineering Analysis, prepared for The Lake Michigan Air Directors Consortium (LADCO), March 30, 2005. ("LADCO 2005");
- 36. http://www.epa.gov/air/ozonepollution/SIPToolkit/documents/stationary nox list.pdf;
- 37. http://www.callidus.com/pages/next_gen.htm;
- 38. Heat Input Affects NO_x Emissions from Internal Flue Gas Re-Circulation Burners http://texasiof.ces.utexas.edu/texasshowcase/pdfs/presentations/c1/dbishop.pdf;
- 39. http://www.andovertechnology.com/HGA_Market_Report_secure.pdf;
- 40. http://vvww.valleyair.org/rules/currntrules/r4304.pdf;
- 41. www.perf.org/ppt/Bishop.ppt;
- 42. State of New Jersey Department of Environmental Protection, State of the Art Manual for Boilers and Process Heaters, July 1997 (revised February 22, 2004). www.state.nj.us/dep/aqpp/downloads/sota/sota/2.pdf;
- 43. Partha Ganguli, Workgroup Recommendations and Other Potential Control Measures Stationary Combustion Sources Workgroup, May 11, 2006. http://www.nj.gov/dep/airworkgroups/docs/wps/SCS004A_fin.pdf;
- 44. Sun, W.H., Bisnett, M.J., et al., "Reduction of NO_x Emissions from Cement Kiln/Calciner through the Use of the NO_xOUT Process", International Specialty

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Conference on Waste Combustion in Boilers and Industrial Furnaces, April 21, 1994;

- 45. http://www.cadencerecycling.com/pdf/6-PageComplete.pdf;
- Hansen, E., Cadence Environmental Energy Inc., "Staged Combustion for NO_x Reduction Using High Pressure Air Injection", undated. http://www.cadencerecycling.com/pdf/IEEE2002.pdf;
- 47. Sabo, E., MACTEC Federal Programs, Inc., "Candidate Control Measures for Cement Plants", LADCO/MRPO, Regional Air Quality Workshop, June 28, 2005;
- 48. United States Environmental Protection Agency, Office of Air Quality, Planning and Standards, Technical Bulletin: Nitrogen Oxides (NO_x), Why and How They Are Controlled, EPA-456/F-99-006R, November 1999. http://www.epa.gov/ttn/catc/dirl/fnoxdoc.pdf;
- 49. Finding of Significant Contribution and Rulemaking for Certain States in the Ozone Transport Assessment Group Region for Purposes of Reducing Regional Transport of Ozone, Rule, 63 Fed. Reg. 57356, October 27, 1998;
- 50. State of Michigan v. USEPA, 213 F.3d 663 (D.C. Cir. 2000);
- 51. Federal Implementation Plans to Reduce the Regional Transport of Ozone; Proposed Rule, 63 Fed. Reg. 56394, October 21, 1998;
- 52. United States Environmental Protection Agency, Office of Air and Radiation, Regulatory Impact Analysis for the NO_x SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, September 1998;
- 53. Waible, R., Price, D., Tish, P., Halpern, M., "Advanced Burner Technology for Stringent NOx Regulations", presented at the American Petroleum Institute Midyear Refining Meeting, Orlando, FL, May 8, 1990;
- 54. Nguyen, Quang, Koppang, Richard, Energy and Environmental Research Corporation, Advanced Steel Reheat Furnaces Research and Development, Final Report, prepared for U.S. Department of Energy, January 14, 1999;
- 55. Rowlan, Steven J. and Sun, William H., "NO_x Control on Preheat and Radiant Furnaces at Nucor Steel Mills through Urea SNCR, SCR, and Hybrid Processes",

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- presented at ICAC Forum, Houston, TX, February 12-13, 2002. http://www.icac.com/Files/Rowlan.pdf;
- 56. Kobayashi, H., "Advances in Oxy-Fuel Fired Glass Melting Technology", presented at XX International Congress on Glass (ICG), Kyoto, Japan, September 26- October 1, 2004;
- 57. http://wwwl.eere.energy.gov/industry/glass/pdfs/airstaging.pdf;
- 58. http://www.gastechnology.org/webroot/app/xn/xd.aspx?it=enweb&xd=4reportspubs%5C4 8focus%5Coxygenenrichedairstaging.xml;
- 59. http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=616314;
- 60. Midwest RPO Candidate Control Measures, Interim White Paper, Source Category: Glass Manufacturing, December 2, 2005;
- 61. Energetics, Inc., Energy and Environmental Profile of the U.S. Aluminum Industry, prepared for U.S. Department of Energy, July 1997;
- 62. http://wwwl.eere.energy.gov/industry/aluminum/pdfs/aluminum.pdf;
- 63. Schalles, David G., The Next Generation of Combustion Technology for Aluminum Melting, undated. http://www.bloomeng.com/tmspaper-FINAL.doc;
- 64. http://www.bloomeng.com/11501umiflame.pdf;
- 65. http://www.eere.energy.gov/industry/combustion/pdfs/oscllcomb.pdf;
- 66. California South Coast Rule 2002, Allocations for oxides of Nitrogen (NOx) and oxides of Sulfur (SO_x), amended January 7, 2005;
- 67. http://www.epa.gov/ttn/emc/cem.html; and
- 68. Alternative Control Techniques Document NO_x Emissions from Cement Manufacturing, EPA-453/R-94-004, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, March 1994.
- 7) Will this rulemaking replace any emergency rulemaking currently in effect? No

NOTICE OF PROPOSED AMENDMENTS

- 8) Does this rulemaking contain an automatic repeal date? No
- 9) <u>Does this rulemaking contain incorporations by reference</u>? Yes. See 35 Ill. Adm. Code 217.104 (incorporating 11 sources).
 - 1) 40 CFR 60, Appendix A, Methods 1, 2, 3, and 4 (2007);
 - 2) Alternative Control Techniques Document NO_x Emissions from Industrial/Commercial/Institutional (ICI) Boilers, EPA-453/R-94-022, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, March 1994;
 - Alternative Control Techniques Document NO_x Emissions from Process Heaters (Revised), EPA-453/R-93-034, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, September 1993;
 - 4) Alternative Control Techniques Document NO_x Emissions from Glass Manufacturing, EPA-453/R-94-037, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, June 1994; and
 - 5) Alternative Control Techniques Document NO_x Emissions from Iron and Steel Mills, EPA-453/R-94-065, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, September 1994.
- 10) Are there any other proposed rulemakings pending on this Part? Yes

Section Numbers:	<u>Proposed Action:</u>	<u>Illinois Register Citation:</u>
217.386	Amend	32 Ill. Reg. 17075 (Oct. 31, 2008)
217.392	Amend	32 Ill. Reg. 17075 (Oct. 31, 2008)
217.396	Amend	32 Ill. Reg. 17075 (Oct. 31, 2008)

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)].

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NOTICE OF PROPOSED AMENDMENTS

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 R08-19 and be addressed to:

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

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

For more information, contact Tim Fox at 312/814-6085 or email at foxt@ipcb.state.il.us.

- 13) Initial Regulatory Flexibility Analysis:
 - A) Types of small businesses, small municipalities and not for profit corporations affected: None expected
 - 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 make reports as required.
 - 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: July 2006

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

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AUTHORITY: 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].

Compliance Dates for Certain Emissions Units at Petroleum

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. 14271, effective September 25, 2007; amended in R08-19 at 33 Ill. Reg. _____, effective _______.

SUBPART A: GENERAL PROVISIONS

the NOx SIP Call 217.APPENDIX H

Refineries

Section 217.100 Scope and Organization

- a) This Part sets standards and limitations for emission of oxides of nitrogen from stationary sources.
- b) Permits for sources subject to this Part may be required pursuant to 35 Ill. Adm. Code 201 or Section 39.5 of the Act.
- c) Notwithstanding the provisions of this Part the air quality standards contained in 35 Ill. Adm. Code 243 may not be violated.
- d) These rules have been grouped for convenience of the public; the scope of each is determined by its language and history.

(Source: Amended at 33 Ill. Reg. _____, effective _____)

Section 217.104 Incorporations by Reference

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

- a) The phenol disulfonic acid procedures, as published in 40 CFR 60, Appendix A, Method 7 (2000);
 - b) 40 CFR 96, subparts B, D, G, and H (1999);
- c) 40 CFR 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55 (a) & (b), 96.56 and 96.57 (1999);
 - d) 40 CFR 60, 72, 75 & 76 (2006);
- e) Alternative Control Techniques Document -- NOx Emissions from Cement Manufacturing, EPA-453/R-94-004, U. S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, March 1994;
- f) Section 11.6, Portland Cement Manufacturing, AP-42 Compilation of Air Emission Factors, Volume 1: Stationary Point and Area Sources, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, revised January 1995;
 - g) 40 CFR 60.13 (2001);
- h) 40 CFR 60, Appendix A, Methods 3A, 7, 7A, 7C, 7D, 7E, 19, and 20 (2000);
- 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);
- $jk\underline{j}$) Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK, 60.4400 (2006);—and
- klk) Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources (2000), USEPA;+
 - 1) 40 CFR 60, Appendix A, Methods 1, 2, 3, and 4 (2007);
- m) Alternative Control Techniques Document -- NOx Emissions from Industrial/Commercial/Institutional (ICI) Boilers, EPA-453/R-94-022, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, March 1994;
- n) Alternative Control Techniques Document -- NOx Emissions from Process Heaters (Revised), EPA-453/R-93-034, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, September 1993;

o) Alternative Control Techniques Document NOx Emissions from Glass Manufacturing, EPA-453/R-94-037, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, June 1994; and
p) Alternative Control Techniques Document NOx Emissions from Iron and Steel Mills, EPA-453/R-94-065, U. S. Environmental Protection Agency, Office of Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, September 1994.
(Source: Amended at 33 Ill. Reg, effective)
SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES (Repealed)
Section 217.121 New Emission Sources (Repealed)
No person shall cause or allow the emission of nitrogen oxides (NOX) into the atmosphere in any one hour period from any new fuel combustion emission source with an actual heat input equal to or greater than 73.2 MW (250 mmbtu/hr) to exceed the following standards and limitations:
a) For gaseous fossil fuel firing, 0.310 kg/MW-hr (0.20 lbs/mmbtu) of actual heat input;
b) For liquid fossil fuel firing, 0.464 kg/MW-hr (0.30 lbs/mmbtu) of actual heat input;
c) For dual gaseous and liquid fossil fuel firing, 0.464 kg/MW-hr (0.30-lbs/mmbtu) of actual heat input;
<pre>d) For solid fossil fuel firing, 1.08 kg/MW hr (0.7 lbs./mmbtu) of actual heat input;</pre>
e) For fuel combustion emission sources burning simultaneously any combination of solid, liquid and gaseous fossil fuels, an allowable emission rate shall be determined by the following equation:
E = (AC + BL + CS) Q
Where: E = Allowable nitrogen oxides emissions rate
Q = Actual heat input derived from all fossil fuels G = Percent of actual heat input derived from gaseous fossil fuel L = Percent of actual heat input derived from liquid fossil fuel S = Percent of actual heat input derived from solid fossil fuel G + L + S = 100.0
and, where A, B, C and appropriate metric and English units are determined from the following table:
MetricEnglishEkg/hrlbs/hrQMWmmbtu/hrA0.0230.003B0.0230.003C0.0530.007 (Source: Repealed at 33 Ill. Reg, effective)
SUBPART B-C: EXISTING FUEL COMBUSTION EMISSION UNITS-SOURCES
Section 217.141 Existing Emission Units Sources —in Major Metropolitan Areas
No person shall cause or allow the emission of nitrogen oxides into the atmosphere in any one hour period from any existing fuel combustion emission

unit—source with an actual heat input equal to or greater than 73.2 MW (250 mmbtu/hr), located in the Chicago or St. Louis (Illinois) major metropolitan areas to exceed the following limitations:

- a) For gaseous and/or liquid fossil fuel firing, 0.46 kg/MW-hr (0.3 lbs/mmbtu) of actual heat input;
- b) For solid fossil fuel firing, 1.39 kg/MW-hr (0.9 lbs/mmbtu) of actual heat input;
- c) For fuel combustion emission units sources—burning simultaneously any combination of solid, liquid and gaseous fuel, the allowable emission rate shall be determined by the following equation:

E = (AG + BL + CS) Q

Where:

E = allowable nitrogen oxides emissionsQ \underline{rateQ} = actual heat input G = percent of actual heat input derived from gaseous fossil \underline{fuelL} = percent of actual heat input derived from liquid fossil \underline{fuelS} = percent of actual heat input derived from solid fossil \underline{fuelG} + L + S = 100.0

and, where A, B, C and appropriate metric and English units are determined from the following table:

MetricEnglishEkg/hrlbs/hrQMWmmbtuMetricEnglishEkg/hrlls/hrQMWmmbtu/hrA0.0230.003
B0.0230.003C0.0680.009

- d) Exceptions: This Section rule-shall not apply to the following:
- 1) Existing existing—fuel combustion units—sources which that are either cyclone fired boilers burning solid or liquid fuel, or horizontally opposed fired boilers burning solid fuel; or-
- 2) Emission units that are subject to the emissions limitations of Subpart \overline{D} , E, F, G, H, I, M, or Q of this Part.

(Source: Amended at 33 Ill. Reg. ____, effective ______

SUBPART C: NOx GENERAL REQUIREMENTSD: INDUSTRIAL BOILERS

Section 217.150 Applicability

- a) Applicability
- 1) The provisions of this Subpart and Subparts D, E, F, G, H, I, and M of this Part apply to the following:
- $\pm \underline{A}$) All sources that are located in either one of the following areas and that emit or have the potential to emit NOx in an amount equal to or greater than 100 tons per year:
- \underline{Ai}) 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
- $\underline{\mathtt{Bii}}$) The area composed of the Metro East area counties of Jersey, Madison, Monroe, and St. Clair, and the Township of Baldwin in Randolph County; and

- 2<u>B</u>) Any industrial boiler, process heater, glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, aluminum reverberatory or crucible furnace, or fossil fuel-fired stationary boiler at such sources described in subsection (a) (1)(A) of this Section that emits NOx in an amount equal to or greater than 15 tons per year and equal to or greater than five tons per ozone season.
- 32) For purposes of this Section, "potential to emit" means the quantity of NOx that potentially could be emitted by a stationary source before add-on controls based on the design capacity or maximum production capacity of the source and 8,760 hours per year or the quantity of NOx that potentially could be emitted by a stationary source as established in a federally enforceable permit.
- b) If a source ceases to fulfill the emissions criteria of subsection (a) of this Section, the requirements of this Subpart and Subpart D. E. F. G. H. I. or M of this Part continue to apply to any emission unit that was ever subject to the provisions of Subpart D. E. F. G. H. or M of this Partany of those Subparts.
- c) The provisions of this Subpart do not apply to afterburners, flares, and incinerators.
- d) 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 emission offsets, such NOx decreases remain creditable notwithstanding any requirements that may apply to the existing emission units pursuant to this Subpart and Subpart D, E, F, G, H, I, or M of this Part .
- e) The owner or operator of an emission unit that is subject to this Subpart and Subpart \overline{D} , \overline{E} , \overline{F} , \overline{G} , \overline{H} , or \overline{M} of this Part must operate such unit in a manner consistent with good air pollution control practice to minimize \overline{N} OX emissions.

(Source:	Added	at	33	Ill.	Reg.		effective)
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Section 217.152 Compliance Date

- a) Compliance with the requirements of Subparts D, E, F, G, H, I and M by an owner or operator of an emission unit that is subject to Subpart D, E, F, G, H, or Many of those Subparts is required beginning January 1, 2012.
- b) Notwithstanding subsection (a) of this Section, compliance with the requirements of Subpart $F\underline{G}$ of this Part by an owner or operator of an emission unit subject to Subpart $F\underline{G}$ of this Part shall be extended until December 31, 2014, if such units are required to meet emissions limitations for NOx, as measured using a continuous emissions monitoring system, and included within a legally enforceable order on or before December 31, 2009, whereby such emissions limitations are less than 30 percent of the emissions limitations set forth under Section 217.204 of Subpart F of this Part.217.204.
- c) Notwithstanding subsection (a) of this Section, the owner or operator of emission units subject to Subpart $\frac{\partial E}{\partial t}$ or $\frac{\partial E}{\partial t}$ of this Part and located at a petroleum refinery must comply with the requirements of this Subpart and Subpart $\frac{\partial E}{\partial t}$ or $\frac{\partial E}{\partial t}$ of this Part, as applicable, for those emission units beginning January

1, 2012, except that the owner or operator of emission units listed in Appendix H must comply with the requirements of this Subpart, including the option of demonstrating compliance with the applicable Subpart through an emissions averaging plan under Section 217.158 of this Subpart, and Subpart DE or EE of this Part, as applicable, for the listed emission units beginning on the dates set forth in Appendix H. With Agency approval, the owner or operator of emission units listed in Appendix H may elect to comply with the requirements of this Subpart and Subpart DE or EE of this Part, as applicable, by reducing the emissions of emission units other than those listed in Appendix H, provided that the emissions limitations of such other emission units are equal to or more stringent than the applicable emissions limitations set forth in Subpart DE or EE of this Part, as applicable, by the dates set forth in Appendix H.

(Source:	Added	at	33	Ill.	Reg.	,	effective	•

Section 217.154 Performance Testing

- a) Performance testing of NOx emissions for emission units constructed on or before July 1, 2011, and subject to Subpart $\frac{D}{T}$, E, F, G, $\frac{H}{T}$, or $\frac{H}{T}$ of this Part must be conducted in accordance with Section $\frac{217.157}{T}$ of this Subpart. $\frac{217.157}{T}$. This subsection does not apply to owners and operators of emission units demonstrating compliance through a continuous emissions monitoring system.
- b) Performance testing of NOx emissions for emission units for which construction or modification occurs after July 1, 2011, and that are subject to Subpart D, E, F, G, or H, or I of this Part must be conducted within 60 days of after achieving maximum operating rate but no later than 180 days after initial startup of the new or modified emission unit, in accordance with Section 217.157 of this Subpart.217.157. This subsection does not apply to owners and operators of emission units demonstrating compliance through a continuous emissions monitoring system.
- c) Notification of the initial startup of an emission unit subject to subsection (b) of this Section must be provided to the Agency no later than 30 days after initial startup.
- d) The owner or operator of an emission unit subject to subsection (a) or (b) of this Section must notify the Agency of the scheduled date for the performance testing <u>in writing</u> at least 30 days—<u>in writing</u> before such date and five days before such date.
- e) If demonstrating compliance through an emissions averaging plan, at least 30 days before changing the method of compliance, the owner or operator of an emission unit must submit a written notification to the Agency describing the new method of compliance, the reason for the change in the method of compliance, and the scheduled date for performance testing, if required. Upon changing the method of compliance, the owner or operator of an emission unit must submit to the Agency a revised compliance certification that meets the requirements of Section 217.155 of this Subpart.217.155.

(Source:	5a55⊈	a+	33	T11	Rea	, effective
(Source:	Added	aı	22		REG.	, ellective

Section 217.155 Initial Compliance Certification

a) By the applicable compliance date set forth under Section $\frac{217.152}{5.152}$ of this Subpart, $\frac{217.152}{5.152}$, an owner or operator of an emission unit subject to Subpart $\frac{1}{152}$, E, F, G, $\frac{1}{152}$ of this Part who is not demonstrating compliance through the

use of a continuous emissions monitoring system must certify to the Agency that the emission unit will be in compliance with the applicable emissions limitation of Subpart D, E, F, G, H, or H of this Part beginning on such applicable compliance date. The performance testing certification must include the results of the performance testing performed in accordance with Sections Section 217.154(a) and (b) of this Subpart and the calculations necessary to demonstrate that the subject emission unit will be in initial compliance.

b) By the applicable compliance date set forth under Section 217.152 of this Subpart,217.152, an owner or operator of an emission unit subject to Subpart D, E, F, G, H, I, or M of this Part who is demonstrating compliance through the use of a continuous emissions monitoring system must certify to the Agency that the affected emission units will be in compliance with the applicable emissions limitation of Subpart D, E, F, G, H, I, or M of this Part beginning on such applicable compliance date. The compliance certification must include a certification of the installation and operation of a continuous emissions monitoring system required under Section 217.157 of this Subpart and the monitoring data necessary to demonstrate that the subject emission unit will be in initial compliance.

(Source:	Added a	ıt 33	Ill.	Req.	, effective	,

Section 217.156 Recordkeeping and Reporting

- a) The owner or operator of an emission unit subject to Subpart $\frac{D}{D}$, E, F, G, H, I, or M of this Part must keep and maintain all records used to demonstrate initial compliance and ongoing compliance with the requirements of those Subparts.
- 1) Except as otherwise provided under this Subpart or Subpart \overline{D} , E, F, G, H, \underline{I} , or M of this Part, copies of such records must be submitted by the owner or operator of the source to the Agency within 30 days after receipt of a written request by the Agency.
- 2) Such records must be kept at the source and maintained for at least five years and must be available for immediate inspection and copying by the Agency.
- b) The owner or operator of an emission unit subject to Subpart D, E, F, G, H, I, or M of this Part must maintain records that demonstrate compliance with the requirements of Subpart D, E, F, G, H, or Mthose Subparts, as applicable, that include the following:
- Identification, type (e.g., gas-fired), and location of each unit.
 - 2) Calendar date of the record.
 - 3) Monthly, seasonal, and annual operating hours.
- 4) Type and quantity of each fuel used monthly, seasonally, and annually.
 - 5) Product and material throughput, as applicable.
- 6) Reports for all applicable emissions tests for NOx conducted on the unit, including results.

- 7) The date, time, and duration of any startup, shutdown, or malfunction in the operation of any emission unit subject to Subpart D, E, F, G, H, I, or M of this Part or any emissions monitoring equipment. The records must include a description of the malfunction and corrective maintenance activity.
- 8) A log of all maintenance and inspections related to the unit's air pollution control equipment for NOx that is performed on the unit.
- 9) A log for the NOx monitoring device, if present, including periods when not in service and maintenance and inspection activities that are performed on the device.
- 10) Identification of time periods for which operating conditions and pollutant data were not obtained by the continuous emissions monitoring system_including the reasons for not obtaining sufficient data and a description of corrective actions taken.
- 11) If complying with the emissions averaging plan provisions of Section 217.158 of this Subpart, 217.158, copies of the calculations used to demonstrate compliance with the ozone season and annual control period limitations, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the Agency.
- c) The owner or operator of an industrial boiler subject to Subpart $\frac{\partial E}{\partial x}$ of this Part must maintain records in order to demonstrate compliance with the combustion tuning requirements under Section $\frac{217.166}{217.166}$ of this Part. $\frac{217.166}{217.166}$.
- d) The owner or operator of a process heater subject to Subpart EF of this Part must maintain records in order to demonstrate compliance with the combustion tuning requirements under Section 217.186 of this Part.217.186.
- e) The owner or operator of an emission unit subject to Subpart $\frac{D_r}{E_r}$, G, H, I, or M of this Part must maintain records in order to demonstrate compliance with the testing and monitoring requirements under Section $\frac{217.157}{E_r}$ of this Subpart. $\frac{217.157}{E_r}$.
- f) The owner or operator of an emission unit subject to Subpart $\frac{D}{D}$, E, F, G, H, or H of this Part must provide the following information with respect to performance testing pursuant to Section 217.157:
- 1) Submit a testing protocol to the Agency at least 60 days prior to testing;
- 2) Notify the Agency at least 30 days in writing prior to conducting performance testing for NOx emissions and five days prior to such testing;
- 3) Not later than 60 days after the completion of the test, submit the results of the test to the Agency; and
- 4) 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 test as scheduled, the owner or operator of the unit must notify the Agency as soon as practicable of the delay in the original test date, either by providing at least seven days' prior notice of the rescheduled date of the test or by arranging a new test date with the Agency by mutual agreement.

- g) The owner or operator of an emission unit subject to Subpart \overline{D} , \overline{E} , \overline{F} , \overline{G} , \overline{H} , \overline{I} , or \overline{M} of this Part must notify the Agency of any exceedances of an applicable emissions limitation of Subpart \overline{D} , \overline{E} , \overline{F} , \overline{G} , \overline{H} , or \overline{M} of this Part by sending the applicable report with an explanation of the causes of such exceedances to the Agency within 30 days following the end of the applicable compliance period in which the emissions limitation was not met.
- h) Within 30 days of after the receipt of a written request by the Agency, the owner or operator of an emission unit that is exempt from the requirements of Subpart D, E, F, G, H, I, or M of this Part must submit records that document that the emission unit is exempt from those requirements to the Agency.
- i) If demonstrating compliance through an emissions averaging plan, by March 1 following the applicable calendar year, the owner or operator must submit to the Agency a report that demonstrates the following:
- 1) 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;
- 2) The total mass of actual NOx emissions for the ozone season and annual control period for each unit included in the averaging plan;
- 3) 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 Section 217.158(f) of this Subpart; and
- 4) The information required to determine the total mass of actual ${\tt NOx}$ emissions.
- j) The owner or operator of an emission unit subject to the requirements of Section 217.157—of this Subpart and demonstrating compliance through the use of a continuous emissions monitoring system must submit to the Agency a report within 30 days after the end of each calendar quarter. This report must include the following:
- 1) Information identifying and explaining the times and dates when continuous emissions monitoring for NOx was not in operation, other than for purposes of calibrating or performing quality assurance or quality control activities for the monitoring equipment; and
- 2) An excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and (d) and 60.13, or 40 CFR Part—75, or an alternate procedure approved by the Agency and USEPA.
- k) The owner or operator of an emission unit subject to Subpart M of this Part must comply with the compliance certification and recordkeeping and reporting requirements in accordance with 40 CFR—Part 96, or an alternate procedure approved by the Agency and USEPA.

	(Source:	Added at 33	Ill. Reg,	effective
Section	217.157	Testing and	Monitoring	

a) Industrial Boilers and Process Heaters

- The owner or operator of an industrial boiler subject to Subpart $\underbrace{\text{PE}}$ of this Part with a rated heat input capacity greater than 250 mmBtu/hr must install, calibrate, maintain, and operate a continuous emissions monitoring system on the emission unit for the measurement of NOx emissions discharged into the atmosphere in accordance with 40 CFR—Part 75, as incorporated by reference in Section $\underbrace{217.104}_{\text{Of}}$ of this $\underbrace{\text{Part.}217.104}_{\text{C}}$.
- 2) The owner or operator of an industrial boiler subject to Subpart DE of this Part with a rated heat input capacity greater than 100 mmBtu/hr but less than or equal to 250 mmBtu/hr must install, calibrate, maintain, and operate a continuous emissions monitoring system on such emission unit for the measurement of NOx emissions discharged into the atmosphere in accordance with 40 CFR Part 60, Subpartsubpart Ar and Appendixappendix B, Performance Specifications 2 and 3, and Appendixappendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104 of this Part 217.104.
- 3) The owner or operator of a process heater subject to Subpart EF of this Part with a rated heat input capacity greater than 100 mmBtu/hr must install, calibrate, maintain, and operate a continuous emissions monitoring system on the emission unit for the measurement of NOx emissions discharged into the atmosphere must monitor emissions of NOx discharged into the atmosphere—in accordance with 40 CFR Part—60, Subpartsubpart A, and Appendixappendix B, Performance Specifications 2 and 3, and Appendixappendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104 of this—Part.217.104.
- 4) If demonstrating compliance through an emissions averaging plan, the owner or operator of an industrial boiler subject to Subpart $\overline{\text{DE}}$ of this Part, or a process heater subject to Subpart $\overline{\text{EF}}$ of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr and not demonstrating compliance through a continuous emissions monitoring system must have an initial performance test conducted pursuant to subsection (a)(4)(B) of this Section and Section $\frac{217.154}{1000}$ of this Subpart. $\frac{217.154}{1000}$.
- A) An owner or operator of an industrial boiler or process heater must have subsequent performance tests conducted pursuant to subsection (a)(4)(B) of this Section at least once every five years. When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.164 or 217.184, as applicable, of this Part, the owner or operator of an industrial boiler or process heater must, at his or her own expense, have such test conducted in accordance with the applicable test methods and procedures specified in this Section within 90 days of after receipt of a notice to test from the Agency or USEPA.
- B) The owner or operator of an industrial boiler or process heater must have a performance test conducted using 40 CFR Part 60, Subpartsubpart A₇ and Appendixappendix A, Method 1, 2, 3, 4, 7E, or 19, as incorporated by reference in Section 217.104 of this Part,217.104, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NOx emissions must be measured while the industrial boiler is operating at maximum operating capacity or while the process heater is operating at normal maximum load. If the industrial boiler or process heater has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. If a combination of fuels is typically used, a performance test may be conducted, with Agency approval, on such combination of fuels typically used. Except as provided under

subsection (e) of this Section, this subsection (a)(4)(B) of this Section—does not apply if such owner or operator is demonstrating compliance with an emissions limitation through a continuous emissions monitoring system under subsection (a)(1), (a)(2), (a)(3), or (a)(5) of this Section.

- Instead of complying with the requirements of subsections (a)(4), (a)(4)(A), and (a)(4)(B) of this Section, an owner or operator of an industrial boiler subject to Subpart ∂E of this Part, or a process heater subject to Subpart EF of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr may install and operate a continuous emissions monitoring system on such emission unit in accordance with the applicable requirements of 40 CFR Part 60, Subpartsubpart A₇ and Appendixappendix B, Performance Specifications 2 and 3, and Appendixappendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104 of this Part.217.104. The continuous emissions monitoring system must be used to demonstrate compliance with the applicable emissions limitation or emissions averaging plan on an ozone season and annual basis.
- b) Glass Melting Furnaces; Cement Kilns; Lime Kilns; Iron and Steel Reheat, Annealing, and Galvanizing Furnaces; and Aluminum Reverberatory and Crucible Furnaces
- 1) An owner or operator of a glass melting furnace subject to Subpart FG of this Part, cement kiln or lime kiln subject to Subpart GH of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart HI of this Part, or aluminum reverberatory or crucible furnace subject to Subpart HI of this Part that has the potential to emit NOx in an amount equal to or greater than one ton per day must install, calibrate, maintain, and operate a continuous emissions monitoring system on such emission unit for the measurement of NOx emissions discharged into the atmosphere in accordance with 40 CFR Part 60, Subpartsubpart A, and Appendixappendix B, Performance Specifications 2 and 3, and Appendixappendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104 of this Part.217.104.
- 2) An owner or operator of a glass melting furnace subject to Subpart $F\underline{G}$ of this Part, cement kiln or lime kiln subject to Subpart $G\underline{H}$ of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart $H\underline{I}$ of this Part, or aluminum reverberatory or crucible furnace subject to Subpart $H\underline{I}$ of this Part that has the potential to emit NOx in an amount less than one ton per day must have an initial performance test conducted pursuant to subsection (b)(4) of this Section and Section 217.154 of this Subpart.217.154.
- 3) An owner or operator of a glass melting furnace subject to Subpart $F\underline{G}$ of this Part, cement kiln or lime kiln subject to Subpart $G\underline{H}$ of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart $H\underline{I}$ of this Part, or aluminum reverberatory or crucible furnace subject to Subpart $H\underline{I}$ of

this Part that has the potential to emit NOx in an amount less than one ton per day must have subsequent performance tests conducted pursuant to subsection (b)(4) of this Section as follows:

- A) For all glass melting furnaces subject to Subpart FG of this Part, cement kilns or lime kilns subject to Subpart GH of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart HI of this Part, or aluminum reverberatory or crucible furnaces subject to Subpart HI of this Part, including all such units included in an emissions averaging plan, at least once every five years; and
- B) When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.204, 217.224, or $\frac{217.244}{217.244}$ of this Part, as applicable, the owner or operator of a glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace must, at his or her own expense, have such test conducted in accordance with the applicable test methods and procedures specified in this Section within 90 days of after receipt of a notice to test from the Agency or USEPA.
- The owner or operator of a glass melting furnace, cement kiln, or lime kiln must have a performance test conducted using 40 CFR Part-60, Subpartsubpart A₇ and Appendix appendix A, Methods 1, 2, 3, 4, and 7E, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. The owner or operator of an iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace must have a performance test conducted using 40 CFR Part-60, Subpartsubpart Ar and Appendixappendix A, Method 1, 2, 3, 4, 7E, or 19, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NOx emissions must be measured while the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace is operating at maximum operating capacity. If the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. Except as provided under subsection (e) of this Section, this subsection (b)(4) of this Section does not apply if such owner or operator is demonstrating compliance with an emissions limitation through a continuous emissions monitoring system under subsection (b)(1) or (b)(5) of this Section.
- 5) Instead of complying with the requirements of subsections (b)(2), (b)(3), and (b)(4) of this Section, an owner or operator of a glass melting furnace subject to Subpart FG of this Part, cement kiln or lime kiln subject to Subpart GH of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart HI of this Part, or aluminum reverberatory or crucible furnace subject to Subpart HI of this Part that has the potential to emit NOx in an amount less than one ton per day may install and operate a continuous emissions monitoring system on such emission unit in accordance with the applicable requirements of 40 CFR Part 60, Subpartsubpart Ar and Appendixappendix B, Performance Specifications 2 and 3, and Appendixappendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104 of this Part. The continuous emissions monitoring system must be used to demonstrate compliance with the applicable emissions limitation or emissions averaging plan on an ozone season and annual basis.

- c) Fossil Fuel-Fired Stationary Boilers. The owner or operator of a fossil fuel-fired stationary boiler subject to Subpart M of this Part must install, calibrate, maintain, and operate a continuous emissions monitoring system on such emission unit for the measurement of NOx emissions discharged into the atmosphere in accordance with 40 CFR Part-96, Subpartsubpart H.
- d) Common Stacks. If two or more emission units subject to Subpart \overline{D} , \overline{E} , \overline{F} , \overline{G} , \overline{H} , \overline{I} , \overline{M} , or \overline{Q} of this Part are served by a common stack and the owner or operator of such emission units is operating a continuous emissions monitoring system, the owner or operator may, with written approval from the Agency, utilize a single continuous emissions monitoring system for the combination of emission units subject to Subpart \overline{D} , \overline{E} , \overline{F} , \overline{G} , \overline{H} , \overline{I} , \overline{M} , or \overline{Q} of this Part that share the common stack, provided such emission units are subject to an emissions averaging plan under this Part.
- e) Compliance with the continuous emissions monitoring system (CEMS) requirements by an owner or operator of an emission unit who is required to install, calibrate, maintain, and operate a CEMS on the emission unit under subsection (a)(1), (a)(2), (a)(3), or (b)(1) of this Section, or who has elected to comply with the CEMS requirements under subsection (a)(5) or (b)(5) of this Section, or who has elected to comply with the predictive emission monitoring system (PEMS) requirements under subsection (f) of this Section, is required by the following dates:
- 1) For the owner or operator of an emission unit that is subject to a compliance date in calendar year 2012 under Section 217.152 of this—Subpart,217.152, compliance with the CEMS or PEMS requirements, as applicable, under this Section for such emission unit is required by December 31, 2012, provided that, during the time between the compliance date and December 31, 2012, the owner or operator must comply with the applicable performance test requirements under this Section and the applicable recordkeeping and reporting requirements under this Subpart. For the owner or operator of an emission unit that is in compliance with the CEMS or PEMS requirements, as applicable, under this Section on January 1, 2012, such owner or operator is not required to comply with the performance test requirements under this Section.
- 2) For the owner or operator of an emission unit that is subject to a compliance date in a calendar year other than calendar year 2012 under Section 217.152 of this Subpart, compliance with the CEMS or PEMS requirements, as applicable, under this Section for such emission unit is required by the applicable compliance date, and such owner or operator is not required to comply with the performance test requirements under this Section.
- f) As an alternative to complying with the requirements of this Section, other than the requirements under subsections (a)(1) and (c) of this Section, the owner or operator of an emission unit who is not otherwise required by any another statute, regulation, or enforceable order to install, calibrate, maintain, and operate a CEMS on the emission unit may comply with the specifications and test procedures for a predictive emission monitoring system (PEMS) on the emission unit for the measurement of NOx emissions discharged into the atmosphere in accordance with the requirements of 40 CFR Part 60, Subpartsubpart A₇ and Appendixappendix B, Performance Specification 16. The PEMS must be used to demonstrate compliance with the applicable emissions limitation or emissions averaging plan on an ozone season and annual basis.

(Source:	Added	at.	3.3	T11.	Rea.	, effective)

Section 217.158 Emissions Averaging Plans

- a) Notwithstanding any other emissions averaging plan provisions under this Part, an owner or operator of a source with certain emission units subject to Subpart D, E, F, G, H, I, or M of this Part, or subject to Subpart Q of this Part that are located in either one of the areas set forth under Section 217.150(a)(1)(A) or (B) of this Subpart, may demonstrate compliance with the applicable Subpart through an emissions averaging plan. An emissions averaging plan can only address emission units that are located at one source and each unit may only be covered by one emissions averaging plan. Such emission units at the source are affected units and are subject to the requirements of this Section.
 - 1) The following units may be included in an emissions averaging plan:
 - A) Units that commenced operation on or before January 1, 2002.
- B) Units that the owner or operator may claim as exempt pursuant to Section 217.162, 217.182, 217.202, 217.222, 217.242, or 217.342, 217.342 of this Part, as applicable, but does not claim exempt. For as long as such a unit is included in an emissions averaging plan, it will be treated as an affected unit and subject to the applicable emissions limitations, and testing, monitoring, recordkeeping and reporting requirements.
- C) Units that commence operation after January 1, 2002, if the unit replaces a unit that commenced operation on or before January 1, 2002, or it replaces a unit that replaced a unit that commenced operation on or before January 1, 2002. The new unit must be used for the same purpose and have substantially equivalent or less process capacity or be permitted for less NOx emissions on an annual basis than the actual NOx emissions of the unit or units that are replaced. Within 90 days after permanently shutting down a unit that is replaced, the owner or operator of such unit must submit a written request to withdraw or amend the applicable permit to reflect that the unit is no longer in service before the replacement unit may be included in an emissions averaging plan.
- 2) The following types of units may not be included in an emissions averaging plan:
- A) Units that commence operation after January 1, 2002, except as provided by subsection (a)(1)(C) of this Section.
- B) Units that the owner or operator is claiming are exempt pursuant to Section 217.162, 217.182, 217.202, 217.222, 217.242, or $\frac{217.342}{217.342}$ of this Part, as applicable.
- C) Units that are required to meet emission limits or control requirements for NOx as provided for in an enforceable order, unless such order allows for emissions averaging.
- b) An owner or operator must submit an emissions averaging plan to the Agency by January 1, 2012. The plan must include, but is not limited to, the following:
- 1) The list of affected units included in the plan by unit identification number; and

- 2) A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for the ozone season (May 1 through September 30) and calendar year (January 1 through December 31).
- c) An owner or operator may amend an emissions averaging plan only once per calendar year. Such an amended plan must be submitted to the Agency by January 1 of the applicable calendar year. If an amended plan is not received by the Agency by January 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:
- 1) If a unit that is listed in an emissions averaging plan is taken out of service, the owner or operator must submit to the Agency, within 30 days $\frac{1}{2}$ such occurrence, an updated emissions averaging plan; or
- If a unit that was exempt from the requirements of Subpart $\frac{D}{D}$, E, F, G, H, $\frac{D}{D}$, or M of this Part pursuant to Section 217.162, 217.182, 217.202, 217.222, 217.242, or $\frac{217.342}{217.342}$ of this Part, as applicable, no longer qualifies for an exemption, the owner or operator may amend its existing averaging plan to include such unit within 30 days of after the unit no longer qualifying qualifies for the exemption.
 - e) An owner or operator must:
- 1) Demonstrate compliance for the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section, the monitoring data or test data determined pursuant to Section 217.157 of this Subpart, 217.157, and the actual hours of operation for the applicable averaging plan period; and
- 2) Submit to the Agency_ by March 1 following each calendar year, a compliance report containing the information required by Section 217.156(i)—of—this Subpart.
- 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:

Where:	
Nact =	

Nact = Nall

Nall = Nact = ===Total sum of the actual NOx mass emissions from units included in the averaging plan for each fuel used (tons per ozone season and year). Nall == Total sum of the allowable NOx mass emissions from units included in the averaging plan for each fuel used (tons per ozone season and year). EMact(i) = Total mass of actual NOXNOX emissions in tons for a unit as determined in subsection (f)(1) of this Section.i = Subscript denoting an individual unit.j = Subscript denoting the fuel type used.k = Number of different fuel types.n = Number of

different units in the averaging plan. EMall(i) = ET Total mass of allowable NOx emissions in tons for a unit as determined in subsection (f)(2) of this Section.

For each unit in the averaging plan, and each fuel used by such unit, determineactual determine actual and allowable NOx emissions using the following equations:

1) Actual emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu, $\frac{\text{EMact(i)}}{\text{Emact(i)}} = \frac{\text{Eact(i)} \times \text{Hi/2000}}{\text{Eact(i)}}$

When emission limits are prescribed in lb/ton of processed product, $\frac{\text{EMact(i)}}{\text{EMact(i)}} = \frac{\text{Eact(i)} \times \text{Pi/2000}}{\text{Eact(i)}}$

2) Allowable emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu,

 $\frac{\text{EMall(i)}}{\text{EMall(i)}} - = \frac{\text{Eall(i)} \times \text{Hi/2000When emission limits are}}{\text{prescribed in lb/ton of processed product,}}$ $\frac{\text{EMall(i)}}{\text{EMall(i)}} = \frac{\text{Eall(i)} \times \text{Pi/2000}}{\text{Eall(i)} \times \text{Pi/2000}}$

Where:

=

Eall = _____Allowable NOx emission rate (lbs/mmBtu or lbs/ton of product) as provided in Section 217.164, 217.184, 217.204, 217.224, 217.244, or 217.344, as applicable, of this Part. For an affected industrial boiler subject to Subpart DE of this Part, or process heater subject to Subpart EF of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr demonstrating compliance through an emissions averaging plan, the allowable NOx emission rate is to be determined from a performance test after such boiler or heater has undergone combustion tuning. For all other units in an emissions averaging plan, an uncontrolled NOx emission rate from USEPA's AP-42, as incorporated by reference in Section 217.104 of this Part, 217.104, or an uncontrolled NOx emission rate as determined by an alternative method approved by the Agency_ will be used.

g) An owner or operator of an emission unit subject to Subpart Q of this Part that is located in either one of the areas set forth under Section 217.150(a)(1)(A) or (B) that is complying through an emissions averaging plan

under this Section must comply with the applicable provisions for determining actual and allowable emissions under Section 217.390 of Subpart Q of this Part, 217.390, the testing and monitoring requirements under Section 217.394 of Subpart Q of this Part, 217.394, and the recordkeeping and reporting requirements under Section 217.396 of Subpart Q of this Part.217.396.

- h) The owner or operator of an emission unit located at a petroleum refinery who is demonstrating compliance with an applicable Subpart through an emissions averaging plan under this Section may exclude from the calculation demonstrating compliance those time periods when an emission unit included in the emissions averaging plan is shut down for a maintenance turnaround, provided that such owner or operator notify the Agency in writing at least 30 days in advance of the shutdown of the emission unit for the maintenance turnaround and the shutdown of the emission unit does not exceed 45 days per ozone season or calendar year and NOx pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance turnaround.
- i) The owner or operator of an emission unit that combusts a combination of coke oven gas and other gaseous fuels and that is located at a source that manufactures iron and steel who is demonstrating compliance with an applicable Subpart through an emissions averaging plan under this Section may exclude from the calculation demonstrating compliance those time periods when the coke oven gas desulfurization unit included in the emissions averaging plan is shut down for maintenance, provided that such owner or operator notify the Agency in writing at least 30 days in advance of the shutdown of the coke oven gas desulfurization unit for maintenance and such shutdown does not exceed 35 days per ozone season or calendar year and NOx pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance period.—

	(Sourc	e:	Added	at	33	Ill.	Reg.	 effective	_)
SUBPART	Đ <u>E</u> :	INDU	JSTRIAI	J BO	DILE	ERS			

Section 217.160 Applicability

- a) The provisions of Subpart $\underline{e}\underline{D}$ of this Part and this Subpart apply to all industrial boilers located at sources subject to this Subpart pursuant to Section $\underline{217.150}$ of this Part, $\underline{217.150}$, except as provided in subsections (b) and (c) of this Section.
- b) The provisions of this Subpart do not apply to boilers serving a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, and cogeneration units, as that term is defined in Section—225.130 of Part 225,35 Ill. Adm. Code 225.130, if such boilers or cogeneration units are subject to the CAIR NOx Trading Programs under 35 Ill. Adm. Code 225.Subpart D or E of Part 225.
- c) The provisions of this Subpart do not apply to fluidized catalytic cracking units, their regenerator and associated CO boiler or boilers and CO furnace or furnaces where present, if such units are located at a petroleum refinery and such units are required to meet emission limits or control requirements for NOx as provided for in an enforceable order.

(Source:	Added	at	33	Ill.	Reg.	 effective	

Section 217.162 Exemptions

Notwithstanding Section 217.160 of this Subpart, the provisions of this Subpart do not apply to an industrial boiler operating under a federally enforceable limit of NOx emissions from such boiler to less than 15 tons per year and less than five tons per ozone season.							
(Source: Added at 33 Ill. Reg, effective)							
Section 217.164 Emissions L	Section 217.164 Emissions Limitations						
On and after January 1, 2012, no person shall cause or allow emissions of NOx into the atmosphere from any industrial boiler to exceed the following limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis.							
		N Ox Emissions					
EmissionFuelEmission Uni Rated Heat Input Capac (mmBtu/hr)		Limitation Fuel 'mmBtu)					
	a (mmBtu/h	nr)Nox Emissions Limitation					
(lb/mmBtu) or Requirementa) 0.08 or Other Gaseou Fuels	Natural Gas	1) Industrial boiler astrial boiler greater than 100					
	strial boiler	Combustion tuning					
les	s than or equal to	100					
-bCombustion tuningb)	Distillate Fuel	Oil 1) Industrial boiler					
0.10	=	eater than 100					
——————————————————————————————————————		Combustion tuning					
-eCombustion tuningc)	less than or eq	qual to 100 <u>Fuels</u> 1) Industrial boiler					
0.15	Fuels	greater than 100					
0.13	1000.15 2)						
Combustion tuning	ADDRESS CONTRACTOR CON	less than or equal to 100					
-dCombustion tuningd)	Solid Fuel	1) Industrial boiler					
0.12	greater t	chan 100,					
circulating fluid combustor 20.122) Industrial combustor 250.		0.18					
greater than 250 <u>32500.183</u>) Indu	strial boiler	0.25					
greater than 100 but	Jerrar Sorrer	less than or equal					
to 250 ——— <u>42500.254</u>) Indu:	strial boiler	Combustion tuning Less less					
than or equal to 100 <u>Combust</u>		compastion tuning hoss <u>ics.</u>					
e) For an industrial boiler combusting a combination of natural gas, coke oven gas, and blast furnace gas, the NOx emissions limitation shall be calculated using the following equation:							
NOx emissions limitation for period in lb/MMBtu=							
(NOXNG * BTUNG + NOXCOG * BTUCOG + NOXBFG * BTUBFG) / (BTUNG + BTUCOG + BTUBFG)							
NOx emissions limitation for period in lb/mmBtu =							

Where:

Where: $\frac{NO\times NG}{NO\times NG} = \frac{1}{2}0.084 \text{ lb/MMBtummBtu}$ for natural gas $\frac{NO\times NG}{NO\times NG} = \frac{1}{2}$ the
heat <u>inputinpu</u> of natural gas in <u>BTUBtu</u> over that period <u>NOxCOG = =</u> 0.144 lb/ <u>MMBtummBtu</u> for coke oven gas <u>BTUCOG = =</u> the heat input of coke oven gas in <u>BTUBtu</u> over that period <u>NOxBFG = =</u> 0.0288 lb/ <u>MMBtummBtu</u> for blast
furnace gas $-$ BTUBFG = $=$ the heat input of blast furnace gas in BTUBtu over that period
(Source: Added at 33 Ill. Reg, effective)
Section 217.165 Combination of Fuels
The owner or operator of an industrial boiler subject to this Subpart and operated with any combination of fuels must comply with a heat input weighted average emissions limitation to demonstrate compliance with Section 217.164 of this Subpart.217.164.
(Source: Added at 33 Ill. Reg, effective)
Section 217.166 Methods and Procedures for Combustion Tuning
The owner or operator of an industrial boiler subject to the combustion tuning requirements of Section 217.164—of—this Subpart must have combustion tuning performed on the boiler at least annually. The combustion tuning must be performed by an employee of the owner or operator or a contractor who has successfully completed a training course on the combustion tuning of boilers firing the fuel or fuels that are fired in the boiler. The owner or operator must maintain the following records that must be made available to the Agency upon request:
$2\underline{b}$) The name, title, and affiliation of the person who performed the combustion tuning;
3 <u>c</u>) Documentation demonstrating the provider of the combustion tuning training course, the dates the training course was taken, and proof of successful completion of the training course;
$4\underline{d}$) Tune-up procedure followed and checklist of items (such as burners, flame conditions, air supply, scaling on heating surface, etc.) inspected prior to the actual tune-up; and
$5\underline{e}$) Operating parameters recorded at the start and at conclusion of combustion tuning.
(Source: Added at 33 Ill. Reg, effective)
SUBPART EF: PROCESS HEATERS
Section 217.180 Applicability
The provisions of Subpart \underline{CD} of this Part and this Subpart apply to all process heaters located at sources subject to this Subpart pursuant to Section $\underline{217.150}$ of this Part. $\underline{217.150}$.
(Source: Added at 33 Ill. Reg. , effective)

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Section 217.182 Exemptions

Beetlen 217.102 Enemperone
Notwithstanding Section 217.180 of this Subpart, 217.180, the provisions of this Subpart do not apply to a process heater operating under a federally enforceable limit of NOx emissions from such heater to less than 15 tons per year and less than five tons per ozone season.
(Source: Added at 33 Ill. Reg, effective)
Section 217.184 Emissions Limitations
On and after January 1, 2012, no person shall cause or allow emissions of NOx into the On and after January 1, 2012, no person shall cause or allow emissions of NOx into the atmosphere from any process heater to exceed the following limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis.
NOx
Emissions
Emission Unit Type and Limitation
Fuel
FuelEmission Unit Type and Rated Heat Input Capacity (1b/mmBtu)
(mmBtu/hr) Nox Emissions Limitation (lb/mmBtu) or Requirement
(mmbed/111) <u>north billion billion billion billion billion billion</u> of negationer
a) Natural Gas 1) Process heater 0.08
or Other Gaseous <u>Fuels1</u> <u>Process heater greater than 100</u>
Fuels
less than or equal to 100
-b <u>Combustion tuningb</u>) Residual Fuel Oil 1) Process heater
0.10 greater than 100,
natural draft $\frac{20.102}{}$ Process heater
0.15 greater than 100,
mechanical draft——3 <u>0.153</u>) Process heater
Combustion tuning less than or equal to 100—
e <u>Combustion tuningc</u>) Other Liquid <u>Fuels</u> 1) Process heater
0.05 Fuels greater than 100, natural draft
$\frac{20.052}{}$ Process heater $\frac{0.08}{}$
greater than 100, mechanical draft <u>0.08</u>
3) Process heater Combustion tuning
less than or equal to 100 <u>Combustion tuning</u>
(Source: Added at 33 Ill. Reg, effective)
(bodies. Maded do 33 III. Reg/ criestive/
Section 217.185 Combination of Fuels
The owner or operator of a process heater subject to this Subpart and operated with any combination of fuels must comply with a heat input weighted average emissions limitation to demonstrate compliance with Section 217.184 of this Subpart.217.184. (Source: Added at 33 Ill. Reg. , effective)
(bout cc. Added at 33 fift. Reg, effective

Section 217.186 Methods and Procedures for Combustion Tuning

The owner or operator of a process heater subject to the combustion tuning requirements of Section 217.184 of this Subpart must have combustion tuning performed on the heater at least annually. The combustion tuning must be performed by an employee of the owner or operator or a contractor who has successfully completed a training course on the combustion tuning of heaters firing the fuel or fuels that are fired in the heater. The owner or operator must maintain the following records that must be made available to the Agency upon request: -1a) The date the combustion tuning was performed; The name, title, and affiliation of the person who performed the combustion tuning; Documentation demonstrating the provider of the combustion tuning training course, the dates the training course was taken, and proof of successful completion of the training course; Tune-up procedure followed and checklist of items (such as burners, flame conditions, air supply, scaling on heating surface, etc.) inspected prior to the actual tune-up; and <u>5e</u>) Operating parameters recorded at the start and at conclusion of combustion tuning. (Source: Added at 33 Ill. Reg. ____, effective _____) SUBPART FG: GLASS MELTING FURNACES Section 217.200 Applicability The provisions of Subpart $\overline{\text{ED}}$ of this Part and this Subpart apply to all glass melting furnaces located at sources subject to this Subpart pursuant to Section 217.150 of this Part.217.150. (Source: Added at 33 Ill. Reg. ____, effective _____) Section 217.202 Exemptions Notwithstanding Section 217.200 of this Subpart, 217.200, the provisions of this Subpart do not apply to a glass melting furnace operating under a federally enforceable limit of NOx emissions from such furnace to less than 15 tons per year and less than five tons per ozone season. (Source: Added at 33 Ill. Reg. , effective)

Section 217.204 Emissions Limitations

a) On and after January 1, 2012, no person shall cause or allow emissions of NOx into the atmosphere from any glass melting furnace to exceed the following limitations. Compliance must be demonstrated with the emissions limitation on an ozone season and annual basis.

<u>ProductEmission Unit TypeNox</u> Emissions Limitation

(lb/ton glass----

	(lb/ton glass—		Product
Emission Unit Ty	e	produced)	
melting furnace		Container Glass SSGlassGlass meltir Glass GlassGlass	•
b) The emissions limelting furnace startu than 35% of furnace ca annual compliance, the calculated as follows:	p (not to exceed ' pacity). For the	70 days) or idling purposes of demon	strating seasonal and
NOx emissions limitati Where: ANL (ANL)/(PPC)		ANL) / (PPC) NOx emissions limit	cation <u>(lb/day) =</u>
Where:			
ANL=The applicable NOx of glass producedPPC <u>p</u> produced per day (Source: Added	<u>roducedPPC</u> = Permit		pacity in tons of glass
SUBPART G <u>H</u> : CEMENT AN	D LIME KILNS		
Section 217.220 Appli	cability		
a) Notwithstar of this Part and this s subject to this Subpar	Subpart apply to a	all cement kilns lo	
b) The provis all lime kilns located 217.150 of this Part. 2	at sources subject		this Subpart apply to pursuant to Section
(Source: Added	at 33 Ill. Reg.	, effective)
Section 217.222 Exemp	tions		
Notwithstanding Section Subpart do not apply to enforceable limit of No and less than five ton	o a cement kiln or Ox emissions from	r lime kiln operat: such kiln to less	ing under a federally
(Source: Added	at 33 Ill. Reg.	, effective)
Section 217.224 Emiss	ions Limitations		
a) On and after Janu NOx into the atmosphere			or allow emissions of

limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis.

 $\frac{\text{*OK}}{\text{*}}$

Emission Unit Type Limitation (lb/ton clinker produced)		Emission Unit Type			
	1)	Long dry kiln			
5.1					
- <u>25.12</u>) - <u>35.13</u>)	Short dry kiln Preheater kiln	5.1 2_0			
4 <u>3.84</u>)	Preheater/precalciner	kiln 2.8			
b) On and after January 1, NOx into the atmosphere from Compliance must be demonstrated ozone season and annual basis	any lime kiln to exceed ted with the applicable				
		₩ Ox			
FuelEmission Unit 7	<u>CvpeNox</u> Emissions				
	tation				
(lb/ton li Type produced)	me Fuel	Emission Unit			
· 1) Gas	Rotary kiln	2.2			
2) Coal	-	otary kiln2.22)			
CoalRotary kiln	2.5				
(Source: Added	at 33 Ill. Reg, et	trective)			
SUBPART HI: IRON AND STEEL AND ALUMINUM MANUFACTURING					
Section 217.240 Applicability					
a) The provisions of all reheat furnaces, annealing and steel making located at a 217.150 of this Part.217.150.	ng furnaces, and galvani sources subject to this				
b) The provisions of Subpart <u>CD</u> of this Part and this Subpart apply to all reverberatory furnaces and crucible furnaces used in aluminum melting located at sources subject to this Subpart pursuant to Section <u>217.150 of this Part.217.150.</u>					
(Source: Added at 33	Ill. Reg, effecti	ve)			
Section 217.242 Exemptions					
Notwithstanding Section 217.240 of this Subpart, 217.240, the provisions of this Subpart do not apply to an iron and steel reheat furnace, annealing furnace, or					

galvanizing furnace, or aluminum reverberatory furnace or crucible furnace

to less than 15 tons per year and less than five tons per ozone season.

operating under a federally enforceable limit of NOx emissions from such furnace

(Source: Added at	: 33 Ill. Req.	, effective) ————)
Section 217.244 Emission	_		· · · · · · · · · · · · · · · · · · ·
Section 217.244 Emission	is Limitations		
a) On and after Januar NOx into the atmosphere f galvanizing furnace used limitations. Compliance limitation on an ozone se	from any reheat from iron and steed must be demonstrated	urnace, annealing l making to exceed ated with the appl	the following
Emiggion Unit Ex	moNov Emigaiona	NOx	
<u>Emission Unit Ty</u> Limitation	<u>benox</u> Emissions	Emission Un	i.t. Two
(lb/mmBtu)		EMITSSIOII OII	ic lype
		1)	Reheat furnace,
3	.18		
2 0.182)		ice, recuperative,	
	ting natural gas-	-3 0.093)	Reheat
furnace, recuperative,	0.142		combusting a
combination of		natural gas and c	
4)	Reheat furna	ice, <u>0.1424</u>)Reheat	<u>furance,</u> cold— <u>-</u>
air 0.03			
— <u>5</u> 0.035)	Annealin <u>g fu</u>	<u>ırnace, regenerati</u>	ve0.386)Annealing
furnace, recuperative0.16	7)Annealing furar	nce, cold-air0.078) Galvanizing furnace
regenerative 0.38	7	50) d-1 1 -1 5	
6)	Annealing <u>u.4</u>	<u>:69)Galvanizing</u> fu	rnace,
recuperative 0.16	7	670) 9-7	7.7
7)	Annealing <u>u.</u>	.610)Galvanizing f	urnace, cold— air
0.07			
8)	<u>Galvanizing</u>	furnace, regenera	tive
9)	Calvanizina	furnace, recupera	tive
10)		furnace, recupera furnace, cold-air	
10)	odivanizing	Turnace, cora-arr	0.06
b) On and after emissions of NOx into the furnace used in aluminum Compliance must be demons ozone season and annual b	atmosphere from melting to exceed trated with the a	d the following li	furnace or crucible mitations.
— 1 — 1 — 1 — 1		XOX	
<u>Emission Unit Tv</u> Limitation (lb/mmBtu)	<u>penox</u> Emissions	Emission Un	it Type
		1)	Reverberatory
furnace 0	.08		-
2 5.12)	Crucible fur	nace <u>0.165.1</u>	
(Source: Added at)
SUBPART M: ELECTRICAL GE	NERATING UNITS		

Section 217.340 Applicability

Notwithstanding Subpart V or W of this Part, the provisions of Subpart $\underline{\mathtt{CD}}$ of this Part and this Subpart apply to any fuel-fired stationary boiler serving a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, excluding any units listed in Appendix D of this Part, located at sources subject to this Subpart pursuant to Section 217.150 of this-Part. 217.150. (Source: Added at 33 Ill. Reg. ____, effective _____) Section 217.342 Exemptions Notwithstanding Section 217.340 of this Subpart, 217.340, the a) provisions of this Subpart and this Subpart do not apply to a fossil fuel-fired stationary boiler operating under a federally enforceable limit of NOx emissions from such boiler to less than 15 tons per year and less than five tons per ozone season. Notwithstanding Section 217.340 of this Subpart, 217.340, the provisions of this Subpart do not apply to a coal-fired stationary boiler that commenced operation before January 1, 2008, that is complying with the Part 225 35 Ill. Adm. Code 225. Subpart B through the multi-pollutant standard under Section 35 Ill. Adm. Code 225.233 of Part 225 or the combined pollutant standards under 35 Ill. Adm. Code 225. Subpart F of Part 225. (Source: Added at 33 Ill. Reg. _____, effective _____) Section 217.344 Emissions Limitations On and after January 1, 2012, no person shall cause or allow emissions of NOx into the atmosphere from any fossil fuel-fired stationary boiler to exceed the following limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis. FuelEmission Unit Type Nox NOx-Emissions Limitation Fuel Emission Unit Type (lb/mmBtu) ----- a) Solid Boiler (lb/mmBtu)a) SolidBoiler 0.12 b) Natural gas

Section 217.345 Combination of Fuels

operation before January 1, 2008

220080.102) Boiler that commenced

Boiler

The owner or operator of a fossil fuel-fired stationary boiler subject to this Subpart and operated with any combination of fuels must comply with a heat input weighted average emissions limitation to demonstrate compliance with Section 217.344 of this Subpart.217.344.

Boiler that commenced ——— 0.10

operation on or after January 1, 200820080.08 (Source: Added at 33 Ill. Reg. ____, effective ____

<u>gasBoiler</u>0.06

Liquid

(Source:	Added	at	33	Ill.	Reg.	,	effective))

Section 217.APPENDIX H:— Compliance Dates for Certain Emission Units at Petroleum Refineries

ExxonMobil Oil Corporation (Facility ID 197800AAA)

PointEmission Unit DescriptionCompliance Date0019Crude Vacuum Heater (13-B-2)December 31,2014003831, 20140038Alky Iso-Stripper Reboiler (7-B-1)December 31,2014003331, 20140033CHD Charge Heater (3-B-1)December 31,2014003431, 20140034CHD Stripper Reboiler (3-B-2)December 31,2014002131, 20140021Coker East Charge Heater (16-B-1A)December 31,2014002131, 20140021Coker East Charge Heater (16-B-1B)December 31,2014001831, 20140018Crude Atmospheric Heater (1-B-1A)December 31,2014001831, 20140018Crude Atmospheric Heater (1-B-1B)December 31,2014

ConocoPhillips Company Wood River Refinery (Facility ID 119090AAA) PointEmission Unit DescriptionCompliance Date 001731, 20140017
BEU HM-1December 31, 20120018BEU HM-2December 31, 20120004 CR-1 Feed Preheat, H-1December 31, 20120005CR-1 1st Interreactor Heater, H-2December 31, 20120009CR-1 3rd Interreactor Heater, H-7December 31, 20120091 CR-3 Charge HeaterDecember 31, 20120092CR-3 1st Reheat Heater, H-5December 31, 20120082Boiler 17December 31, 20120080Boiler 15December 31, 20120073Alky HM-2 HeaterDecember 31, 20120662VF-4 Charge Heater, H-28December 31, 20120664DU-4 Charge Heater, H-24December 31, 20140617DCU Charge Heater, H-20December 31, 20140014HCU Fractionator Reboil, H-3December 31, 20160024DU-1 Primary Heater South, F-301December 31, 20160025DU-1 Secondary Heater North, F-302December 31, 20160081Boiler 16December 31, 20160083Boiler 18December 31, 20160095DHT Charge HeaterDecember 31, 20160028DU-2 Lube Crude Heater, F-200December 31, 20160029DU-2 Mixed Crude Heater West, F-202December 31, 20160030DU-2 Mixed Crude Heater East, F-203December 31, 20160084CR-2 North Heater December 31, 201620160017 BEU HM-1December 31, 2012 ILLINOIS REGISTER

ConocoPhillips Company Wood River Refinery (Facility ID 119090AAA)

POL	т :	rτ	ш	т	-	ιъ.	т	\sim	^	A	TF	T٦٢	~	_	١.		-	-	7	. T	1
+4-11-	+-	₩	-	+	٠.	m	ď	 	ь.	H		-	•	₩	,	_	-	₹	Ψ.	┍┼	-

(Source: Added at 33 Ill. Req. , effective)

NOTICE OF PROPOSED AMENDMENTS

ILLINOIS RECISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

Document comparison done by DeltaView on Friday, May 15, 2009 10:16:42 AM

Input:	
Document 1	file://Y:/Input/35-217AgencyProp(iss21).doc
Document 2	file://Y:/Input/35-217-JCARr01(iss21).doc
Rendering set	Standard

Legend:					
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Split/Merged cell					
Padding cell					

Statistics:	
	Count
Insertions	330
Deletions	469
Moved from	1
Moved to	1
Style change	0
Format changed	0
Total changes	801

ST NOTICE VERSION

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2		SUBTITLE B: AIR POLLUTION
3		CHAPTER I: POLLUTION CONTROL BOARD
4		SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS
5		FOR STATIONARY SOURCES
6		
7		PART 217
8		NITROGEN OXIDES EMISSIONS
9		
10		SUBPART A: GENERAL PROVISIONS
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12	Section	
13	217.100	Scope and Organization
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15	217.102	Abbreviations and Units
16	217.103	Definitions
17	217.104	Incorporations by Reference
18		
19		SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES
20		
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22	217.121	New Emission Sources (Repealed)
23	21,1121	<u> </u>
24	SU	BPART C: EXISTING FUEL COMBUSTION EMISSION UNITSSOURCES
25	20	DATACLE C. DATACLE COLLEGE COLLEGE COLLEGE COLLEGE
26	Section	
27	217.141	Existing Emission Sources in Major Metropolitan Areas
28	21/11	2
29		SUBPART D: NO _x GENERAL REQUIREMENTS
30		
31	Section	
32	$\frac{217.150}{217.150}$	Applicability
33	217.152	Compliance Date
34	217.154	Performance Testing
35	217.155	Initial Compliance Certification
36	217.156	Recordkeeping and Reporting
37	$\frac{217.155}{217.157}$	Testing and Monitoring
38	217.158	Emissions Averaging Plans
39		
40		SUBPART E: INDUSTRIAL BOILERS
41		
42	Section	
43	217.160	Applicability

44 45 46 47 48	217.162 217.164 217.165 217.166	Exemptions Emissions Limitations Combination of Fuels Methods and Procedures for Combustion Tuning
49		SUBPART F: PROCESS HEATERS
50 51 52 53 54 55 56 57	Section 217.180 217.182 217.184 217.185 217.186	Applicability Exemptions Emissions Limitations Combination of Fuels Methods and Procedures for Combustion Tuning
58 59		SUBPART G: GLASS MELTING FURNANCES
60 61 62 63	Section 217.200 217.202 217.204	Applicability Exemptions Emissions Limitations
64 65		SUBPART H: CEMENT AND LIME KILNS
66		SODIFACT II. CENTERVI PRIVE ENVIE REENS
67 68 69 70 71	Section 217.220 217.222 217.224	Applicability Exemptions Emissions Limitations
72	S	SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING
73 74	Section	
75 76	217.240	Applicability
76 77	217.242 217.244	Exemptions Emissions Limitations
78	217.211	
79 80		SUBPART K: PROCESS EMISSION SOURCES
81	Section	
82	217.301	Industrial Processes
83 84		SUBPART M: ELECTRICAL GENERATING UNITS
85 86	Section	

87	217.340	Applicability
88	217.342	Exemptions
89	217.344	Emissions Limitations
90	$\overline{217.345}$	Combination of Fuels
91		
92		SUBPART O: CHEMICAL MANUFACTURE
93		
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95	217.381	Nitric Acid Manufacturing Processes
96		
97		SUBPART Q: STATIONARY RECIPROCATING
98		INTERNAL COMBUSTION ENGINES AND TURBINES
99		
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101	217.386	Applicability
102	217.388	Control and Maintenance Requirements
103	217.390	Emissions Averaging Plans
104	217.392	Compliance
105	217.394	Testing and Monitoring
106	217.396	Recordkeeping and Reporting
107		
108		SUBPART T: CEMENT KILNS
109		
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111	217.400	Applicability
112	217.402	Control Requirements
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114	217.406	Monitoring
115	217.408	Reporting
116	217.410	Recordkeeping
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118		SUBPART U: NO _x CONTROL AND TRADING PROGRAM FOR
119		SPECIFIED NO _x GENERATING UNITS
120	Section	
121	217.450	Purpose
122	217.452	Severability
123	217.454	Applicability
124	217.456	Compliance Requirements
125	217.458	Permitting Requirements
126	217.460	Subpart U NO _x Trading Budget
127	217.462	Methodology for Obtaining NO _x Allocations
128	217.464	Methodology for Determining NO _x Allowances from the New Source Set-Aside
129	217.466	NO _x Allocations Procedure for Subpart U Budget Units

130	217.468	New Source Set-Asides for "New" Budget Units
131	217.470	Early Reduction Credits (ERCs) for Budget Units
132	217.472	Low-Emitter Requirements
133	217.474	Opt-In Units
134	217.476	Opt-In Process
135	217.478	Opt-In Budget Units: Withdrawal from NO _x Trading Program
136	217.480	Opt-In Units: Change in Regulatory Status
137	217.482	Allowance Allocations to Opt-In Budget Units
138		
139		SUBPART V: ELECTRIC POWER GENERATION
140		
141	Section	
142	217.521	Lake of Egypt Power Plant
143	217.700	Purpose
144	217.702	Severability
145	217.704	Applicability
146	217.706	Emission Limitations
147	217.708	NO_x Averaging
148	217.710	Monitoring
149	217.712	Reporting and Recordkeeping
150		
151		SUBPART W: NO _x TRADING PROGRAM FOR
152		ELECTRICAL GENERATING UNITS
153		
154	Section	
155	217.750	Purpose
156	217.752	Severability
157	217.754	Applicability
158	217.756	Compliance Requirements
159	217.758	Permitting Requirements
160	217.760	NO _x Trading Budget
161	217.762	Methodology for Calculating NO _x Allocations for Budget Electrical Generating
162		Units (EGUs)
163	217.764	NO _x Allocations for Budget EGUs
164	217.768	New Source Set-Asides for "New" Budget EGUs
165	217.770	Early Reduction Credits for Budget EGUs
166	217.774	Opt-In Units
167	217.776	Opt-In Process
168	217.778	Budget Opt-In Units: Withdrawal from NO _x Trading Program
169	217.780	Opt-In Units: Change in Regulatory Status
170	217.782	Allowance Allocations to Budget Opt-In Units
171		· -
172		SUBPART X: VOLUNTARY NO _x EMISSIONS REDUCTION PROGRAM

173			
174	Section		
175	217.800	Purpo	se
176	217.805	_	sion Unit Eligibility
177	217.810		ipation Requirements
178	217.815		Emission Reductions and the Subpart X NO _x Trading Budget
179	217.820		ine Emissions Determination
180	217.825	Calcu	lation of Creditable NO _x Emission Reductions
181	217.830		ations on NO _x Emission Reductions
182	217.835	NO _x I	Emission Reduction Proposal
183	217.840	Agend	cy Action
184	217.845	Emiss	sions Determination Methods
185	217.850	Emiss	sions Monitoring
186	217.855	Repor	ting
187	217.860	Recor	dkeeping
188	217.865	Enfor	cement
189			
190	217.APPEN	DIX A	Rule into Section Table
191	217.APPEN		Section into Rule Table
192	217.APPEN		Compliance Dates
193	217.APPEN		Non-Electrical Generating Units
194	217.APPEN		Large Non-Electrical Generating Units
195	217.APPEN		Allowances for Electrical Generating Units
196	217.APPEN	DIX G	Existing Reciprocating Internal Combustion Engines Affected by the NO _x
197			SIP Call
198	<u>217.APPEN</u>	DIX H	Compliance Dates for Certain Emissions Units at Petroleum Refineries
199			
200		_	lementing Sections 9.9 and 10 and authorized by Sections 27 and 28 of the
201	Environmen	ital Prote	ction Act [415 ILCS 5/9.9, 10, 27 and 28].
202	COLIDOD		Ol (O A' D II (' D I OOT NY) O 'I E ' ' DTI OO
203		-	as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23,
204	,		, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101,
205	_		978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128,
206			26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001;
207			and R01-17 at 25 III. Reg. 5914, effective April 17, 2001; amended in R07-
208			71, effective September 25, 2007; amended in R08-19 at 33 Ill. Reg.
209 210	, eme		·
210			SUBPART A: GENERAL PROVISIONS
211			BODI AKI A. OENEKALI KOYIBIONS
212	Section 217	100 Sec	ope and Organization
213	Section 21/	.100 500	be and organization
217	`	mi.:T	

a) This Part sets standards and limitations for emission of oxides of nitrogen from

216 217		stationary sources.
218 219	b)	Permits for sources subject to this Part may be required pursuant to 35 Ill. Adm. Code 201 or Section 39.5 of the Act.
220221222	c)	Notwithstanding the provisions of this Part the air quality standards contained in 35 Ill. Adm. Code 243 may not be violated.
223224225	d)	These rules have been grouped for convenience of the public; the scope of each is determined by its language and history.
226227228	(Sourc	e: Amended at 33 Ill. Reg, effective)
229 230	Section 217.1	04 Incorporations by Reference
231 232	_	materials are incorporated by reference. These incorporations do not include any ents or editions.
233234235	a)	The phenol disulfonic acid procedures, as published in 40 CFR 60, Appendix A, Method 7 (2000);
236 237	b)	40 CFR 96, subparts B, D, G, and H (1999);
238239240	c)	40 CFR 96.1 through 96.3, 96.5 through 96.7, 96.50 through 96.54, 96.55(a) & (b), 96.56 and 96.57 (1999);
241242243	d)	40 CFR 60, 72, 75 & 76 (2006);
244 245 246 247	e)	Alternative Control Techniques Document – NO _x Emissions from Cement Manufacturing, EPA-453/R94-004, U.S. Environmental Protection Agency-Office of Air Quality Planning and Standards, Research Triangle Park, N.C. 27711, March 1994;
248 249 250 251 252	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;
253 254	g)	40 CFR 60.13 (2001);
255 256 257	h)	40 CFR 60, Appendix A, Methods 3A, 7, 7A, 7C, 7D, 7E, 19, and 20 (2000);

258	i)	ASTM D6522-00, Standard Test Method for Determination of Nitrogen Oxides,
259	,	Carbon Monoxide, and Oxygen Concentrations in Emissions from Natural Gas-
260		Fired Reciprocating Engines, Combustion Turbines, Boilers, and Process Heaters
261		Using Portable Analyzers (2000);
262		
263	i k)	Standards of Performance for Stationary Combustion Turbines, 40 CFR 60,
264	- /	Subpart KKKK, 60.4400 (2006); and
265		
266	<u>k</u> 1)	Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary
267		Point and Area Sources (2000), USEPA;
268		· // -
269	<u>1)</u>	40 CFR 60, Appendix A, Methods 1, 2, 3, and 4 (2007);
270		
271	<u>m)</u>	Alternative Control Techniques Document – NO _x Emissions from
272		Industrial/Commercial/Institutional (ICI) Boilers, EPA-453/R-94-022, U.S.
273		Environmental Protection Agency, Office of Air and Radiation, Office of Air
274		Quality Planning and Standards, Research Triangle Park, N.C. 27711, March
275		1994;
276		
277	<u>n)</u>	Alternative Control Techniques Document – NO _x Emissions from Process
278		Heaters (Revised), EPA-453/R-93-034, U.S. Environmental Protection Agency,
279		Office of Air and Radiation, Office of Air Quality Planning and Standards,
280		Research Triangle Park, N.C. 27711, September 1993;
281		
282	<u>o)</u>	Alternative Control Techniques Document - NO _x Emissions from Glass
283		Manufacturing, EPA-453/R-94-037, U.S. Environmental Protection Agency,
284		Office of Air and Radiation, Office of Air Quality Planning and Standards,
285		Research Triangle Park, N.C. 27711, June 1994; and
286		
287	<u>p)</u>	Alternative Control Techniques Document – NO _x Emissions from Iron and Steel
288	*	Mills, EPA-453/R-94-065, U.S. Environmental Protection Agency, Office of Air
289		and Radiation, Office of Air Quality Planning and Standards, Research Triangle
290		Park, N.C. 27711, September 1994.
291		
292	(Sou	rce: Amended at 33 Ill. Reg, effective)
293	(- 3	
294		SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES
295		

Section 217.121 New Emission Sources (Repealed)

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No person shall cause or allow the emission of nitrogen oxides (NO_x) into the atmosphere in any one hour period from any new fuel combustion emission source with an actual heat input equal to or greater than 73.2 MW (250 mmbtu/hr) to exceed the following standards and limitations:

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- a) For gaseous fossil fuel firing, 0.310 kg/MW-hr (0.20 lbs/mmbtu) of actual heat input;
- b) For liquid fossil fuel firing, 0.464 kg/MW-hr (0.30 lbs/mmbtu) of actual heat input;
- e) For dual gaseous and liquid fossil fuel firing, 0.464 kg/MW-hr (0.30 lbs/mmbtu) of actual heat input;
- d) For solid fossil fuel firing, 1.08 kg/MW-hr (0.7 lbs.mmbtu) of actual heat input;
- e) For fuel combustion emission sources burning simultaneously any combination of solid, liquid and gaseous fossil fuels, an allowable emission rate shall be determined by the following equation:

$$E = (AG + BL + CS)Q$$

Where: =

E = Allowable nitrogen oxides emissions rate

Q = Actual heat input derived from all fossil fuels

G = Percent of actual heat input derived from gaseous fossil fuel

E Percent of actual heat input derived from liquid fossil fuel

S = Percent of actual heat input derived from solid fossil fuel

 $\frac{G}{}$ + $\frac{L+S-100.0}{}$

And, where A, B, C and appropriate metric and English units are determined from the following table:

	<u>Metric</u>	English
£	Kg/hr	11s/hr
Q	MW	Mmbtu/hr
A	0.023	0.003
₿	0.023	0.003
e	0.053	0.007

318							
319	(Sour	ce: Repealed at 3	33 II	1. Reg, ef	fective		
320							
321	SUBF	PART C: EXIST	ING	FUEL COMB	USTION EM	SSION <u>UNITS</u> SOURCE	≧S
322	Section 217	141 Evicting En	.iaai	on UniteCours	os in Major N	Notwonalitan Awasa	
323 324	Section 21/	141 Existing En	11221	on <u>Onussoure</u>	es in Major N	Aetropolitan Areas	
324 325	No porgon ch	oll cours or ollow	, the	emission of nit	rogen eviden	into the atmosphere in a	ns, ono
323 326						aree with an actual heat i	
320 327		•				e Chicago or St. Louis (1	-
328		olitan areas to ex				c Cincago of St. Louis (1	mmoisj
329	major menop	ontan areas to ex		a the following	iiiiitations.		
330	a)	For gaseous an	d/or	liquid fossil fue	el firing 0.46	kg/MW-hr (0.3 lbs/mmb	itii) of
331	<i>u)</i>	actual heat inpu		iiquiu 1055ii 1u	51 mmg, 0.10	Kg/141 // III (0.5 105/IIIII)	14) 01
332		actual meat mp	,				
333	b)	For solid fossil	fuel	firing, 1.39 kg	/MW-hr (0.9 l	bs/mmbtu) of actual hea	t input:
334	,			υ, υ		• ,	· r · · ·)
335	c)	For fuel combu	stio	n emission units	s sources burn	ng simultaneously any	
336	,	combination of	soli	d, liquid and ga	seous fuel, th	e allowable emission rate	e shall b
337		determined by	the f	following equat	ion:		
338							
339		E = (AC)	I + i	BL + CS) Q			
340							
341		Where:					
342							
		E	=	allowable nitre	ogen oxides e	missions rate	
		0		actual heat inn	4		
		Q	=	actual heat inp	out		
		G	=	percent of actu	al heat input	derived from gaseous for	ssil
				fuel	1	S	
		L	=	percent of actu	al heat input	derived from liquid foss	il fuel
		S	=	percent of actu	ual heat input	derived from solid fossil	fuel
		G + L + S	=	100.0			
343							
				<u>Metric</u>	<u>English</u>		
		E		Kg/hr	1ls/hr		
		Q		MW	Mmbtu/hr		
		A		0.023	0.003		

		В	0.023	0.003	
		С	0.068	0.009	
344					
345	d)	Exceptions:	This Sectionrule s	shall not apply to the fo	ollowing:
346					
347					which are either cyclone
348				-	orizontally opposed fired
349		boile	rs burning solid fu	iel <u>; or</u> .	
350					
351				•	ns limitations of Subpart E,
352		<u>F, G,</u>	H, I, M, or Q of the	his Part.	
353	/0		. 00 111 75	00	
354	(Sourc	ce: Amended	at 33 III. Reg	_, effective)
355			CITODADED D		
356			SUBPART D: IN	IDUSTRIAL BOILER	<u>S</u>
357	G	50 A 12 1	•1•4		
358	Section 217.1	50 Applicab	<u>IIITY</u>		
359	۵)	A mali a ability	•		
360 361	<u>a)</u>	Applicability	<u>/</u>		
362		1) The **	rovisions of this	Subport and Subports E	F C H I and M of this
363			apply to the follow		F, G, H, I, and M of this
364		<u> 1 art a</u>	apply to the follow	ing.	
365		<u>A)</u>	All sources that	are located in either or	ne of the following areas and
366		<u> 21)</u>	\		1000000000000000000000000000000000000
367				100 tons per year:	110x in an amount equal to
368			of grouter than	too tons per year.	
369			i) The area	composed of the Chic	ago area counties of Cook,
370					y, and Will, the Townships
371				_	in Grundy County, and the
372				ip of Oswego in Kenda	
373				<u>p 01 0011000 1111111100</u>	11 00 0110 j. j. j. j.
374			ii) The area	composed of the Met	o East area counties of
375					St. Clair, and the Township
376			\\\\\\\\\	vin in Randolph Count	
377					, , , , , , , , , , , , , , , , , , ,
378		<u>B)</u>	Any industrial b	oiler, process heater, g	lass melting furnace, cement
379					nnealing, or galvanizing
380					ucible furnace, or fossil fuel-
381				· · · · · · · · · · · · · · · · · · ·	described in subsection
382					ox in an amount equal to or

383		greater than 15 tons per year and equal to or greater than five tons
384		per ozone season.
385		
386		2) For purposes of this Section, "potential to emit" means the quantity of
387		NO _x that potentially could be emitted by a stationary source before add-on
388		controls based on the design capacity or maximum production capacity of
389		the source and 8,760 hours per year or the quantity of NO _x that potentially
390		could be emitted by a stationary source as established in a federally
391		enforceable permit.
392		
393	<u>b)</u>	If a source ceases to fulfill the emissions criteria of subsection (a) of this Section,
394		the requirements of this Subpart and Subpart E, F, G, H, I, or M of this Part
395		continue to apply to any emission unit that was ever subject to the provisions of
396		any of those Subparts.
397		
398	<u>c)</u>	The provisions of this Subpart do not apply to afterburners, flares, and
399		incinerators.
400		
401	<u>d)</u>	Where a construction permit, for which the application was submitted to the
402		Agency prior to the adoption of this Subpart, is issued that relies on decreases in
403		emissions of NO _x from existing emission units for purposes of netting or emission
404		offsets, such NO _x decreases remain creditable notwithstanding any requirements
405		that may apply to the existing emission units pursuant to this Subpart and Subpart
406		E, F, G, H, I, or M of this Part.
407		
408	<u>e)</u>	The owner or operator of an emission unit that is subject to this Subpart and
409		Subpart E, F, G, H, I, or M of this Part must operate such unit in a manner
410		consistent with good air pollution control practice to minimize NO _x emissions.
411		
412	(Source	e: Added at 33 Ill. Reg, effective)
413		
414	Section 217.1	52 Compliance Date
415		
416	<u>a)</u>	Compliance with the requirements of Subparts E, F, G, H, I and M by an owner or
417		operator of an emission unit that is subject to any of those Subparts is required
418		beginning January 1, 2012.
419		
420	<u>b)</u>	Notwithstanding subsection (a) of this Section, compliance with the requirements
421		of Subpart G of this Part by an owner or operator of an emission unit subject to
422		Subpart G of this Part shall be extended until December 31, 2014, if such units are
423		required to meet emissions limitations for NO _x , as measured using a continuous
424		emissions monitoring system, and included within a legally enforceable order on

425		or before December 31, 2009, whereby such emissions limitations are less than 30
426		percent of the emissions limitations set forth under Section 217.204.
427		
428	<u>c)</u>	Notwithstanding subsection (a) of this Section, the owner or operator of emission
429		units subject to Subpart E or F of this Part and located at a petroleum refinery
430		must comply with the requirements of this Subpart and Subpart E or F of this Part
431		as applicable, for those emission units beginning January 1, 2012, except that the
432		owner or operator of emission units listed in Appendix H must comply with the
433		requirements of this Subpart, including the option of demonstrating compliance
434		with the applicable Subpart through an emissions averaging plan under Section
435		217.158 and Subpart E or F of this Part, as applicable, for the listed emission units
436		beginning on the dates set forth in Appendix H. With Agency approval, the
437		owner or operator of emission units listed in Appendix H may elect to comply
438		with the requirements of this Subpart and Subpart E or F of this Part, as
439		applicable, by reducing the emissions of emission units other than those listed in
440		Appendix H, provided that the emissions limitations of such other emission units
441		are equal to or more stringent than the applicable emissions limitations set forth in
442		Subpart E or F of this Part, as applicable, by the dates set forth in Appendix H.
443		
444	(Sou	rce: Added at 33 Ill. Reg, effective)
445		
446	Section 217.	154 Performance Testing
447		
448	<u>a)</u>	Performance testing of NO _x emissions for emission units constructed on or before
449		July 1, 2011, and subject to Subpart E, F, G, H, or I of this Part must be conducted
450		in accordance with Section 217.157. This subsection does not apply to owners
451		and operators of emission units demonstrating compliance through a continuous
452		emissions monitoring system.
453		
454	<u>b)</u>	Performance testing of NO _x emissions for emission units for which construction
455		or modification occurs after July 1, 2011, and that are subject to Subpart E, F, G,
456		H, or I of this Part must be conducted within 60 days after achieving maximum
457		operating rate but no later than 180 days after initial startup of the new or
45 8		modified emission unit, in accordance with Section 217.157. This subsection
459		does not apply to owners and operators of emission units demonstrating
460		compliance through a continuous emissions monitoring system.
461		
462	<u>c)</u>	Notification of the initial startup of an emission unit subject to subsection (b) of
463		this Section must be provided to the Agency no later than 30 days after initial
464		startup.
465		

466	<u>d</u>)	The owner or operator of an emission unit subject to subsection (a) or (b) of this
467		Section must notify the Agency of the scheduled date for the performance testing
468		in writing at least 30 days before such date and five days before such date.
469		
470	<u>e)</u>	If demonstrating compliance through an emissions averaging plan, at least 30
471	***************************************	days before changing the method of compliance, the owner or operator of an
472		emission unit must submit a written notification to the Agency describing the new
473		method of compliance, the reason for the change in the method of compliance,
474		and the scheduled date for performance testing, if required. Upon changing the
475		method of compliance, the owner or operator of an emission unit must submit to
476		the Agency a revised compliance certification that meets the requirements of
477		Section 217.155.
478		
479	(Source	e: Added at 33 Ill. Reg, effective)
480		
481	Section 217.1	55 Initial Compliance Certification
482		
483	<u>a)</u>	By the applicable compliance date set forth under Section 217.152, an owner or
484		operator of an emission unit subject to Subpart E, F, G, H, or I of this Part who is
485		not demonstrating compliance through the use of a continuous emissions
486		monitoring system must certify to the Agency that the emission unit will be in
487		compliance with the applicable emissions limitation of Subpart E, F, G, H, or I of
488		this Part beginning on such applicable compliance date. The performance testing
489		certification must include the results of the performance testing performed in
490		accordance with Section 217.154(a) and (b) and the calculations necessary to
491		demonstrate that the subject emission unit will be in initial compliance.
492		
493	<u>b)</u>	By the applicable compliance date set forth under Section 217.152, an owner or
494		operator of an emission unit subject to Subpart E, F, G, H, I, or M of this Part who
495		is demonstrating compliance through the use of a continuous emissions
496		monitoring system must certify to the Agency that the affected emission units will
497		be in compliance with the applicable emissions limitation of Subpart E, F, G, H, I,
498		or M of this Part beginning on such applicable compliance date. The compliance
499		certification must include a certification of the installation and operation of a
500		continuous emissions monitoring system required under Section 217.157 and the
501		monitoring data necessary to demonstrate that the subject emission unit will be in
502		initial compliance.
503		
504	(Sourc	e: Added at 33 Ill. Reg, effective)
505		
506	Section 217.1:	56 Recordkeeping and Reporting

508 509 510 511	<u>a)</u>	of thi	owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M is Part must keep and maintain all records used to demonstrate initial pliance and ongoing compliance with the requirements of those Subparts.
512 513 514 515		<u>1)</u>	Except as otherwise provided under this Subpart or Subpart E, F, G, H, I, or M of this Part, copies of such records must be submitted by the owner or operator of the source to the Agency within 30 days after receipt of a written request by the Agency.
516 517 518 519 520		<u>2)</u>	Such records must be kept at the source and maintained for at least five years and must be available for immediate inspection and copying by the Agency.
521 522 523	<u>b)</u>	of thi	owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M s Part must maintain records that demonstrate compliance with the rements of those Subparts, as applicable, that include the following:
524 525 526		<u>1)</u>	Identification, type (e.g., gas-fired), and location of each unit.
527 528		<u>2</u>)	Calendar date of the record.
529 530		<u>3)</u>	Monthly, seasonal, and annual operating hours.
531 532		<u>4)</u>	Type and quantity of each fuel used monthly, seasonally, and annually.
533 534		<u>5)</u>	Product and material throughput, as applicable.
535 536 537		<u>6)</u>	Reports for all applicable emissions tests for NO_x conducted on the unit, including results.
538 539 540 541		7)	The date, time, and duration of any startup, shutdown, or malfunction in the operation of any emission unit subject to Subpart E, F, G, H, I, or M of this Part or any emissions monitoring equipment. The records must include a description of the malfunction and corrective maintenance activity.
543 544 545 546		<u>8)</u>	A log of all maintenance and inspections related to the unit's air pollution control equipment for NO_x that is performed on the unit.
547 548 549 550		<u>9)</u>	A log for the NO _x monitoring device, if present, including periods when not in service and maintenance and inspection activities that are performed on the device.

551		<u>10)</u>	Identification of time periods for which operating conditions and pollutant
552			data were not obtained by the continuous emissions monitoring system,
553			including the reasons for not obtaining sufficient data and a description of
554			corrective actions taken.
555			
556		<u>11)</u>	If complying with the emissions averaging plan provisions of Section
557			217.158, copies of the calculations used to demonstrate compliance with
558			the ozone season and annual control period limitations, noncompliance
559			reports for the ozone season, and ozone and annual control period
560			compliance reports submitted to the Agency.
561			•
562	<u>c)</u>	The	owner or operator of an industrial boiler subject to Subpart E of this Part
563			maintain records in order to demonstrate compliance with the combustion
564			ng requirements under Section 217.166.
565			
566	<u>d)</u>	The	owner or operator of a process heater subject to Subpart F of this Part must
567	,- -		tain records in order to demonstrate compliance with the combustion tuning
568			irements under Section 217.186.
569		20407	Tollion dildol Debuoli 217.100.
570	<u>e)</u>	The o	owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M
571	<u> </u>		is Part must maintain records in order to demonstrate compliance with the
572			ng and monitoring requirements under Section 217.157.
572 573		<u>tostii</u>	ig and monitoring requirements under Section 217.137.
574	<u>f)</u>	The	owner or operator of an emission unit subject to Subpart E, F, G, H, or I of
57 4 575	玎		Part must provide the following information with respect to performance
576			ng pursuant to Section 217.157:
		<u>testii</u>	ig pursuant to Section 217.137.
577 570		1)	Cylinait a tagting must sail to the Agency at least 60 days miles to testing.
578 570		<u>1)</u>	Submit a testing protocol to the Agency at least 60 days prior to testing;
579		2)	NT 41 Co 41 - A 4 1 4 20 1 in month in a material and a second action
580		<u>2)</u>	Notify the Agency at least 30 days in writing prior to conducting
581			performance testing for NO _x emissions and five days prior to such testing;
582		a >	
583		<u>3)</u>	Not later than 60 days after the completion of the test, submit the results of
584			the test to the Agency; and
585			
586		<u>4)</u>	If, after the 30-days' notice for an initially scheduled test is sent, there is a
587			delay (e.g., due to operational problems) in conducting the test as
588			scheduled, the owner or operator of the unit must notify the Agency as
589			soon as practicable of the delay in the original test date, either by
590			providing at least seven days' prior notice of the rescheduled date of the
591			test or by arranging a new test date with the Agency by mutual agreement.
592			

593	g)		owner or operator of an emission unit subject to Subpart E, F, G, H, I, or M
594			s Part must notify the Agency of any exceedances of an applicable emissions
595			ation of Subpart E, F, G, H, I, or M of this Part by sending the applicable
596			t with an explanation of the causes of such exceedances to the Agency
597		withi	n 30 days following the end of the applicable compliance period in which the
598		emiss	sions limitation was not met.
599			
600	<u>h)</u>	Withi	in 30 days after the receipt of a written request by the Agency, the owner or
601		opera	tor of an emission unit that is exempt from the requirements of Subpart E, F,
602		<u>G, H,</u>	I, or M of this Part must submit records that document that the emission
603		unit i	s exempt from those requirements to the Agency.
604			
605	<u>i)</u>	If der	nonstrating compliance through an emissions averaging plan, by March 1
606			wing the applicable calendar year, the owner or operator must submit to the
607			cy a report that demonstrates the following:
608			
609		<u>1)</u>	For all units that are part of the emissions averaging plan, the total mass of
610			allowable NO _x emissions for the ozone season and for the annual control
611	,		period;
612			porrous,
613		<u>2)</u>	The total mass of actual NO _x emissions for the ozone season and annual
614		<u>=1</u>	control period for each unit included in the averaging plan;
615			control period for each time meraded in the averaging plant,
616		<u>3)</u>	The calculations that demonstrate that the total mass of actual NO _x
617		21	emissions are less than the total mass of allowable NO_x emissions using
618			equations in Section 217.158(f); and
619			equations in Section 217.138(1), and
		4)	The information magnined to determine the total mass of actual NO
620		<u>4)</u>	The information required to determine the total mass of actual NO _x
621			emissions.
622	• `	mt	
623	j)		wner or operator of an emission unit subject to the requirements of Section
624			57 and demonstrating compliance through the use of a continuous emissions
625			toring system must submit to the Agency a report within 30 days after the
626		end o	f each calendar quarter. This report must include the following:
627			
628		<u>1)</u>	Information identifying and explaining the times and dates when
629			continuous emissions monitoring for NO _x was not in operation, other than
630			for purposes of calibrating or performing quality assurance or quality
631			control activities for the monitoring equipment; and
632			
633		<u>2</u>)	An excess emissions and monitoring systems performance report in
534			accordance with the requirements of 40 CFR 60.7(c) and (d) and 60.13, or

635 636			40 CFR 75, or an alternate procedure approved by the Agency and USEPA.
637			OBLI A.
638	<u>k)</u>	The	owner or operator of an emission unit subject to Subpart M of this Part must
639	<u>r)</u>		bly with the compliance certification and recordkeeping and reporting
640			
		_	rements in accordance with 40 CFR 96, or an alternate procedure approved
641 642		<u>by m</u>	e Agency and USEPA.
643	(C	aa. Ad	Ideal at 22 III Dear affective
	(Sour	ce: Au	Ided at 33 Ill. Reg, effective)
644	C - 41 21 M	<i>. അ</i> സം	
645	Section 217.	15/ 16	esting and Monitoring
646	a)	Ten day	atmical Decilous and Dunesca IV cotour
647	<u>a)</u>	maus	strial Boilers and Process Heaters
648		1)	The everyone on encueton of an industrial bailer subject to Culous E. of this
649		1)	The owner or operator of an industrial boiler subject to Subpart E of this
650 651			Part with a rated heat input capacity greater than 250 mmBtu/hr must
651			install, calibrate, maintain, and operate a continuous emissions monitoring
652			system on the emission unit for the measurement of NO _x emissions
653			discharged into the atmosphere in accordance with 40 CFR 75, as
654			incorporated by reference in Section 217.104.
655		2)	The assument an engage of an industrial bailer subject to Culturant E. of this
656		<u>2)</u>	The owner or operator of an industrial boiler subject to Subpart E of this
657			Part with a rated heat input capacity greater than 100 mmBtu/hr but less
658			than or equal to 250 mmBtu/hr must install, calibrate, maintain, and
659			operate a continuous emissions monitoring system on such emission unit
660			for the measurement of NO _x emissions discharged into the atmosphere in
661			accordance with 40 CFR 60, subpart A and appendix B, Performance
662			Specifications 2 and 3, and appendix F, Quality Assurance Procedures, as
663			incorporated by reference in Section 217.104.
664		2)	
665		<u>3)</u>	The owner or operator of a process heater subject to Subpart F of this Part
666			with a rated heat input capacity greater than 100 mmBtu/hr must install,
667			calibrate, maintain, and operate a continuous emissions monitoring system
668			on the emission unit for the measurement of NO _x emissions discharged
669			into the atmosphere in accordance with 40 CFR 60, subpart A and
670			appendix B, Performance Specifications 2 and 3, and appendix F, Quality
671			Assurance Procedures, as incorporated by reference in Section 217.104.
672		45	
673		<u>4)</u>	If demonstrating compliance through an emissions averaging plan, the
674			owner or operator of an industrial boiler subject to Subpart E of this Part,
675			or a process heater subject to Subpart F of this Part, with a rated heat input
676			capacity less than or equal to 100 mmBtu/hr and not demonstrating
677			compliance through a continuous emissions monitoring system must have

an initial performance test conducted pursuant to subsection (a)(4)(B) of this Section and Section 217.154.

- An owner or operator of an industrial boiler or process heater must have subsequent performance tests conducted pursuant to subsection (a)(4)(B) of this Section at least once every five years. When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.164 or 217.184, as applicable, the owner or operator of an industrial boiler or process heater must, at his or her own expense, have such test conducted 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.
- <u>B)</u> The owner or operator of an industrial boiler or process heater must have a performance test conducted using 40 CFR 60, subpart A and appendix A, Method 1, 2, 3, 4, 7E, or 19, as incorporated by reference in Section 217.104, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO_x emissions must be measured while the industrial boiler is operating at maximum operating capacity or while the process heater is operating at normal maximum load. If the industrial boiler or process heater has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. If a combination of fuels is typically used, a performance test may be conducted, with Agency approval, on such combination of fuels typically used. Except as provided under subsection (e) of this Section, this subsection (a)(4)(B) does not apply if such owner or operator is demonstrating compliance with an emissions limitation through a continuous emissions monitoring system under subsection (a)(1), (a)(2), (a)(3), or (a)(5) of this Section.
- Instead of complying with the requirements of subsections (a)(4),
 (a)(4)(A), and (a)(4)(B) of this Section, an owner or operator of an
 industrial boiler subject to Subpart E of this Part, or a process heater
 subject to Subpart F of this Part, with a rated heat input capacity less than
 or equal to 100 mmBtu/hr may install and operate a continuous emissions
 monitoring system on such emission unit in accordance with the
 applicable requirements of 40 CFR 60, subpart A and appendix B,
 Performance Specifications 2 and 3, and appendix F, Quality Assurance
 Procedures, as incorporated by reference in Section 217.104. The
 continuous emissions monitoring system must be used to demonstrate

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- compliance with the applicable emissions limitation or emissions averaging plan on an ozone season and annual basis.
- Notwithstanding subsection (a)(2) of this Section, the owner or operator of an auxiliary boiler subject to Subpart E of this Part with a rated heat input capacity less than or equal to 250 mmBtu/hr and a capacity factor of less than or equal to 20% is not required to install, calibrate, maintain, and operate a continuous emissions monitoring system on such boiler for the measurement of NO_x emissions discharged into the atmosphere, but must comply with the performance test requirements under subsections (a)(4), (a)(4)(A), and (a)(4)(B) of this Section.
- b) Glass Melting Furnaces; Cement Kilns; Lime Kilns; Iron and Steel Reheat,
 Annealing, and Galvanizing Furnaces; and Aluminum Reverberatory and
 Crucible Furnaces
 - An owner or operator of a glass melting furnace subject to Subpart G of this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart I of this Part, or aluminum reverberatory or crucible furnace subject to Subpart I of this Part that has the potential to emit NO_x in an amount equal to or greater than one ton per day must install, calibrate, maintain, and operate a continuous emissions monitoring system on such emission unit for the measurement of NO_x emissions discharged into the atmosphere in accordance with 40 CFR 60, subpart A and appendix B, Performance Specifications 2 and 3, and appendix F, Quality Assurance Procedures, as incorporated by reference in Section 217.104.
 - An owner or operator of a glass melting furnace subject to Subpart G of this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart I of this Part, or aluminum reverberatory or crucible furnace subject to Subpart I of this Part that has the potential to emit NO_x in an amount less than one ton per day must have an initial performance test conducted pursuant to subsection (b)(4) of this Section and Section 217.154.
 - An owner or operator of a glass melting furnace subject to Subpart G of this Part, cement kiln or lime kiln subject to Subpart H of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart I of this Part, or aluminum reverberatory or crucible furnace subject to Subpart I of this Part that has the potential to emit NO_x in an amount less than one ton per day must have subsequent performance tests conducted pursuant to subsection (b)(4) of this Section as follows:

- A) For all glass melting furnaces subject to Subpart G of this Part, cement kilns or lime kilns subject to Subpart H of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart I of this Part, or aluminum reverberatory or crucible furnaces subject to Subpart I of this Part, including all such units included in an emissions averaging plan, at least once every five years; and
- When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.204, 217.224, or 217.244 of this Part, as applicable, the owner or operator of a glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace must, at his or her own expense, have such test conducted 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.
- 4) The owner or operator of a glass melting furnace, cement kiln, or lime kiln must have a performance test conducted using 40 CFR 60, subpart A and appendix A, Methods 1, 2, 3, 4, and 7E, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. The owner or operator of an iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace must have a performance test conducted using 40 CFR 60, subpart A and appendix A, Method 1, 2, 3, 4, 7E, or 19, as incorporated by reference in Section 217.104 of this Part, or other alternative USEPA methods approved by the Agency. Each performance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO_x emissions must be measured while the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace is operating at maximum operating capacity. If the glass melting furnace, cement kiln, lime kiln, iron and steel reheat, annealing, or galvanizing furnace, or aluminum reverberatory or crucible furnace has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel. Except as provided under subsection (e) of this Section, this subsection (b)(4) does not apply if such owner or operator is demonstrating compliance with an emissions limitation through a continuous emissions monitoring system under subsection (b)(1) or (b)(5) of this Section.

807 5) Instead of complying with the requirements of subsections (b)(2), (b)(3), and (b)(4) of this Section, an owner or operator of a glass melting furnace 808 809 subject to Subpart G of this Part, cement kiln or lime kiln subject to 810 Subpart H of this Part, iron and steel reheat, annealing, or galvanizing 811 furnace subject to Subpart I of this Part, or aluminum reverberatory or 812 crucible furnace subject to Subpart I of this Part that has the potential to emit NO_x in an amount less than one ton per day may install and operate a 813 814 continuous emissions monitoring system on such emission unit in accordance with the applicable requirements of 40 CFR 60, subpart A and 815 appendix B, Performance Specifications 2 and 3, and appendix F, Quality 816 Assurance Procedures, as incorporated by reference in Section 217.104 of 817 this Part. The continuous emissions monitoring system must be used to 818 819 demonstrate compliance with the applicable emissions limitation or 820 emissions averaging plan on an ozone season and annual basis. 821 822 c) Fossil Fuel-Fired Stationary Boilers. The owner or operator of a fossil fuel-fired stationary boiler subject to Subpart M of this Part must install, calibrate, maintain, 823 824 and operate a continuous emissions monitoring system on such emission unit for 825 the measurement of NO_x emissions discharged into the atmosphere in accordance 826 with 40 CFR 96, subpart H.

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- d) Common Stacks. If two or more emission units subject to Subpart E, F, G, H, I, M, or Q of this Part are served by a common stack and the owner or operator of such emission units is operating a continuous emissions monitoring system, the owner or operator may, with written approval from the Agency, utilize a single continuous emissions monitoring system for the combination of emission units subject to Subpart E, F, G, H, I, M, or O of this Part that share the common stack, provided such emission units are subject to an emissions averaging plan under this Part.
- Compliance with the continuous emissions monitoring system (CEMS) e) requirements by an owner or operator of an emission unit who is required to install, calibrate, maintain, and operate a CEMS on the emission unit under subsection (a)(1), (a)(2), (a)(3), or (b)(1) of this Section, or who has elected to comply with the CEMS requirements under subsection (a)(5) or (b)(5) of this Section, or who has elected to comply with the predictive emission monitoring system (PEMS) requirements under subsection (f) of this Section, is required by the following dates:
 - For the owner or operator of an emission unit that is subject to a 1) compliance date in calendar year 2012 under Section 217.152, compliance with the CEMS or PEMS requirements, as applicable, under this Section for such emission unit is required by December 31, 2012, provided that,

850		during the time between the compliance date and December 31, 2012, the
851		owner or operator must comply with the applicable performance test
852		requirements under this Section and the applicable recordkeeping and
853		reporting requirements under this Subpart. For the owner or operator of
854		an emission unit that is in compliance with the CEMS or PEMS
855		requirements, as applicable, under this Section on January 1, 2012, such
856		owner or operator is not required to comply with the performance test
857		requirements under this Section.
858		
859		2) For the owner or operator of an emission unit that is subject to a
860		compliance date in a calendar year other than calendar year 2012 under
861		Section 217.152 of this Subpart, compliance with the CEMS or PEMS
862		requirements, as applicable, under this Section for such emission unit is
863		required by the applicable compliance date, and such owner or operator is
864		not required to comply with the performance test requirements under this
865		Section.
866		
867	<u>f</u>)	As an alternative to complying with the requirements of this Section, other than
868		the requirements under subsections (a)(1) and (c) of this Section, the owner or
869		operator of an emission unit who is not otherwise required by any other statute,
870		regulation, or enforceable order to install, calibrate, maintain, and operate a
871		CEMS on the emission unit may comply with the specifications and test
872		procedures for a predictive emission monitoring system (PEMS) on the emission
873		unit for the measurement of NO _x emissions discharged into the atmosphere in
874		accordance with the requirements of 40 CFR 60, subpart A and appendix B,
875		Performance Specification 16. The PEMS must be used to demonstrate
876		compliance with the applicable emissions limitation or emissions averaging plan
877		on an ozone season and annual basis.
878		
879	(Source	e: Added at 33 Ill. Reg, effective)
880	`	
881	Section 217.15	58 Emissions Averaging Plans
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a) Notwithstanding any other emissions averaging plan provisions under this Part, an owner or operator of a source with certain emission units subject to Subpart E, F, G, H, I, or M of this Part, or subject to Subpart Q of this Part that are located in either one of the areas set forth under Section 217.150(a)(1)(A) or (B), may demonstrate compliance with the applicable Subpart through an emissions averaging plan. An emissions averaging plan can only address emission units that are located at one source and each unit may only be covered by one emissions averaging plan. Such emission units at the source are affected units and are subject to the requirements of this Section.

893		<u>1)</u>	The fo	ellowing units may be included in an emissions averaging plan:
894				
895			<u>A)</u>	Units that commenced operation on or before January 1, 2002.
896				
897			<u>B)</u>	Units that the owner or operator may claim as exempt pursuant to
898				Section 217.162, 217.182, 217.202, 217.222, 217.242, or 217.342
899				of this Part, as applicable, but does not claim exempt. For as long
900				as such a unit is included in an emissions averaging plan, it will be
901				treated as an affected unit and subject to the applicable emissions
902				limitations, and testing, monitoring, recordkeeping and reporting
903				requirements.
903				requirements.
			α	I Inite that a second in the s
905			<u>C)</u>	Units that commence operation after January 1, 2002, if the unit
906				replaces a unit that commenced operation on or before January 1,
907				2002, or it replaces a unit that replaced a unit that commenced
908				operation on or before January 1, 2002. The new unit must be
909				used for the same purpose and have substantially equivalent or less
910				process capacity or be permitted for less NO _x emissions on an
911				annual basis than the actual NO _x emissions of the unit or units that
912				are replaced. Within 90 days after permanently shutting down a
913				unit that is replaced, the owner or operator of such unit must
914				submit a written request to withdraw or amend the applicable
915				permit to reflect that the unit is no longer in service before the
916				replacement unit may be included in an emissions averaging plan.
917				
918		<u>2)</u>	The fo	llowing types of units may not be included in an emissions
919				ing plan:
920				
921			<u>A)</u>	Units that commence operation after January 1, 2002, except as
922			=.=. <i>L</i>	provided by subsection (a)(1)(C) of this Section.
923				pro-rate of substitution (w)(1)(0) or allo sociolis
924			<u>B)</u>	Units that the owner or operator is claiming are exempt pursuant to
925			<u></u>	Section 217.162, 217.182, 217.202, 217.222, 217.242, or 217.342
926				of this Part, as applicable.
927				of this fact, as applicable.
928			C	Units that are required to meet emission limits or control
929			<u>C</u>)	
				requirements for NO _x as provided for in an enforceable order,
930				unless such order allows for emissions averaging.
931	1. \	A		
932	<u>b)</u>			perator must submit an emissions averaging plan to the Agency by
933		<u> Januar</u>	y 1, 201	2. The plan must include, but is not limited to, the following:
934				

935 936 937		1) The list of affected units included in the plan by unit identification number; and
938 939 940 941		A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for the ozone season (May 1 through September 30) and calendar year (January 1 through December 31).
943 944 945 946 947	<u>c)</u>	An owner or operator may amend an emissions averaging plan only once per calendar year. Such an amended plan must be submitted to the Agency by January 1 of the applicable calendar year. If an amended plan is not received by the Agency by January 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.
949	<u>d)</u>	Notwithstanding subsection (c) of this Section:
950 951 952 953		1) If a unit that is listed in an emissions averaging plan is taken out of service, the owner or operator must submit to the Agency, within 30 days after such occurrence, an updated emissions averaging plan; or
954 955 956 957 958 959 960		If a unit that was exempt from the requirements of Subpart E, F, G, H, I, or M of this Part pursuant to Section 217.162, 217.182, 217.202, 217.222, 217.242, or 217.342 of this Part, as applicable, no longer qualifies for an exemption, the owner or operator may amend its existing averaging plan to include such unit within 30 days after the unit no longer qualifies for the exemption.
962	<u>e)</u>	An owner or operator must:
963 964 965 966 967 968 969 970		Demonstrate compliance for the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section, the monitoring data or test data determined pursuant to Section 217.157, and the actual hours of operation for the applicable averaging plan period; and
972 973 974		2) Submit to the Agency, by March 1 following each calendar year, a compliance report containing the information required by Section 217.156(i).
975 976 977	<u>f)</u>	The total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x

emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

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

Where:

$$\frac{N_{act}}{N_{all}} \equiv \sum_{i=l}^{n} \sum_{j=l}^{k} EM_{act(i,j)}$$

$$\frac{N_{all}}{\sum_{i=l}^{n} \sum_{j=l}^{k} EM_{all(i,j)}}$$

$$\frac{N_{all}}{\sum_{i=1}^{n} \sum_{j=1}^{k} EM_{all(i,j)}}$$

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

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

Total mass of actual NO_x emissions in tons for a unit as $EM_{act(i)} \equiv$ determined in subsection (f)(1) of this Section.

Subscript denoting an individual unit. i i Subscript denoting the fuel type used.

k Number of different fuel types.

Number of different units in the averaging plan.

Total mass of allowable NO_x emissions in tons for a unit $EM_{all(i)} \equiv$ as determined in subsection (f)(2) of this Section.

985 986

For each unit in the averaging plan, and each fuel used by such unit, determine actual and allowable NO_x emissions using the following equations:

987 988 989

990

Actual emissions must be determined as follows: 1)

991 992

When emission limits are prescribed in lb/mmBtu,

993

$$EM_{act(i)} \equiv E_{act(i)} \times H_i / 2000$$

When emission limits are prescribed in lb/ton of processed product,

$$EM_{act(i)} \equiv E_{act(i)} \times P_i / 2000$$

2) Allowable emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu,

$$EM_{all(i)} \equiv E_{all(i)} \times H_i / 2000$$

When emission limits are prescribed in lb/ton of processed product,

$$EM_{all(i)} \equiv E_{all(i)} \times P_i / 2000$$

Where:

Total mass of actual NO_x emissions in tons for a unit.

 $EM_{all(i)} \equiv$ Total mass of allowable NO_x emissions in tons for a unit.

Actual NO_x emission rate (lbs/mmBtu or lbs/ton of E_{act} product) as determined by a performance test, a continuous emissions monitoring system, or an alternative method approved by the Agency.

= Allowable NO_x emission rate (lbs/mmBtu or lbs/ton of E_{all} product) as provided in Section 217.164, 217.184, 217.204, 217.224, 217.244, or 217.344, as applicable. For an affected industrial boiler subject to Subpart E of this Part, or process heater subject to Subpart F of this Part, with a rated heat input capacity less than or equal to 100 mmBtu/hr demonstrating compliance through an emissions averaging plan, the allowable NO_x emission rate is to be determined from a performance test after such boiler or heater has undergone combustion tuning. For all other units in an emissions averaging plan, an uncontrolled NO_x emission rate from USEPA's AP-42, as incorporated by reference in Section 217.104, or an uncontrolled NO_x emission rate as determined by an alternative method approved by the Agency, will be used.

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

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		<u>P</u> = weight in tons of processed product.
1008		
1009	<u>g)</u>	An owner or operator of an emission unit subject to Subpart Q of this Part that is
1010		located in either one of the areas set forth under Section 217.150(a)(1)(A) or (B)
1011		that is complying through an emissions averaging plan under this Section must
1012		comply with the applicable provisions for determining actual and allowable
1013		emissions under Section 217.390, the testing and monitoring requirements under
1014		Section 217.394, and the recordkeeping and reporting requirements under Section
1015		217.396.
1016		
1017	<u>h)</u>	The owner or operator of an emission unit located at a petroleum refinery who is
1018		demonstrating compliance with an applicable Subpart through an emissions
1019		averaging plan under this Section may exclude from the calculation demonstrating
1020		compliance those time periods when an emission unit included in the emissions
1021		averaging plan is shut down for a maintenance turnaround, provided that such
1022		owner or operator notify the Agency in writing at least 30 days in advance of the
1023		shutdown of the emission unit for the maintenance turnaround and the shutdown
1024		of the emission unit does not exceed 45 days per ozone season or calendar year
1025		and NO _x pollution control equipment, if any, continues to operate on all other
1026		emission units operating during the maintenance turnaround.
1027		
1028	<u>i)</u>	The owner or operator of an emission unit that combusts a combination of coke
1029		oven gas and other gaseous fuels and that is located at a source that manufactures
1030		iron and steel who is demonstrating compliance with an applicable Subpart
1031		through an emissions averaging plan under this Section may exclude from the
1032		calculation demonstrating compliance those time periods when the coke oven gas
1033		desulfurization unit included in the emissions averaging plan is shut down for
1034		maintenance, provided that such owner or operator notify the Agency in writing at
1035		least 30 days in advance of the shutdown of the coke oven gas desulfurization unit
1036		for maintenance and such shutdown does not exceed 35 days per ozone season or
1037		calendar year and NO _x pollution control equipment, if any, continues to operate
1038		on all other emission units operating during the maintenance period.
1039		•
1040	(Sourc	e: Added at 33 Ill. Reg, effective)
1041	•	
1042		SUBPART E: INDUSTRIAL BOILERS
1043		
1044	Section 217.1	60 Applicability
1045		
1046	<u>a)</u>	The provisions of Subpart D of this Part and this Subpart apply to all industrial
1047		boilers located at sources subject to this Subpart pursuant to Section 217.150,
1048		except as provided in subsections (b) and (c) of this Section.

1050	<u>b)</u>		nis Subpart do not apply to boilers s	
1051			y greater than 25 MWe and produce	
1052			as that term is defined in 35 Ill. Add	
1053			tion units are subject to the CAIR N	O _x Trading Programs
1054		under 35 Ill. Adm. (Code 225.Subpart D or E.	
1055				
1056	<u>c)</u>		nis Subpart do not apply to fluidized	
1057			d associated CO boiler or boilers ar	
1058		-	ch units are located at a petroleum i	
1059		required to meet em	nission limits or control requirement	ts for NO _x as provided for
1060		in an enforceable or	<u>der.</u>	
1061	(6	A 11 1 4 22 T11 D	CC . (:	`
1062 1063	(Sour	ce: Added at 33 III. R	Reg, effective	
1063	Section 217.	162 Exemptions		
1065	200000000000000000000000000000000000000	<u> </u>		
1066	Notwithstand	ling Section 217.160 o	of this Subpart, the provisions of thi	is Subpart do not apply to
1067			r a federally enforceable limit of NO	
1068			and less than five tons per ozone se	
1069				
1070	(Sour	ce: Added at 33 Ill. R	leg, effective	_)
1071				
1072	Section 217.	164 Emissions Limit	tations	
1073	0	T1 2012		- CNO :t. th.
1074			erson shall cause or allow emission	
1075		-	iler to exceed the following limitation	
1076 1077	demonstrated	with the applicable e	missions limitation on an ozone sea	ason and annual basis.
10//			Emission Unit Type and	No _x Emissions
			Rated Heat Input Capacity	<u>Limitation (lb/mmBtu)</u>
	Engl			
	<u>Fuel</u>		(mmBtu/hr)	or Requirement
	a) Na	atural Gas or Other	1) Industrial boiler greater	
		aseous Fuels	than 100	0.08
			100	
			2) To descript had an loss than	
			2) Industrial boiler less than	Combustion tuning
			or equal to 100	
			1) Industrial boiler greater	
	<u>b)</u> <u>Di</u>	stillate Fuel Oil	than 100	<u>0.10</u>
			man 100	
			2) Industrial boiler less than	0 1
			or equal to 100	Combustion tuning

c) Other Liquid Fuels	1) Industrial boiler greater than 100	0.15					
	2) Industrial boiler less than or equal to 100	Combustion tuning					
<u>d) Solid Fuel</u>	1) Industrial boiler greater than 100, circulating fluidized bed combustor	0.12					
	2) Industrial boiler greater than 250	0.18					
	3) Industrial boiler greater than 100 but less than or equal to 250	0.25					
	4) Industrial boiler less than or equal to 100	Combustion tuning					
and blast furna	e) For an industrial boiler combusting a combination of natural gas, coke oven gas, and blast furnace gas, the NO _x emissions limitation shall be calculated using the following equation:						
NO _x emiss	ions limitation for period in lb/mmBtu =	$(NO_{x_{NG}} * Btu_{NG} +$					
	$_{OG} *Btu_{COG} + NO_{x_{BFG}} *Btu_{BFG})/(Btu_{NG} + Dt_{NG})$						
Where:							
$NO_{x_{NG}}$	= 0.084 lb/mmBtu for natural gas						
Btu_{NG}	= the heat input of natural gas in Btu o	ver that period					
$NO_{x cog}$	= 0.144 lb/mmBtu for coke oven gas						
$\overline{Btu_{COG}}$	= the heat input of coke oven gas in B	tu over that period					
$\overline{NO_{_{_{X}}}}_{_{BFG}}$	= 0.0288 lb/mmBtu for blast furnace g	gas					
Btu_{BFG}	= the heat input of blast furnace gas in	Btu over that period					

1087	(Sour	ce: Added at 33 Ill. Reg, effective)
1088 1089	Section 217	165 Combination of Fuels
1090	Section 217.	tos Combination of Fueis
1091 1092		operator of an industrial boiler subject to this Subpart and operated with any of fuels must comply with a heat input weighted average emissions limitation to
1093		compliance with Section 217.164.
1094	<u>demonstrate</u>	omphance with Beetion 217.104.
1095 1096	(Source	ce: Added at 33 Ill. Reg, effective)
1097	Section 217.1	166 Methods and Procedures for Combustion Tuning
1098	The every on em	on anoton of an industrial boiler subject to the combination to include the C
1099		operator of an industrial boiler subject to the combustion tuning requirements of
1100		64 must have combustion tuning performed on the boiler at least annually. The
1101		uning must be performed by an employee of the owner or operator or a contractor
1102		essfully completed a training course on the combustion tuning of boilers firing the
1103		hat are fired in the boiler. The owner or operator must maintain the following
1104	records that n	nust be made available to the Agency upon request:
1105	۵۱	The data the combination typics was newfamed.
1106	<u>a)</u>	The date the combustion tuning was performed;
1107	1-)	
1108	<u>b)</u>	The name, title, and affiliation of the person who performed the combustion
1109		tuning;
1110	- \	December de la constantina del constantina de la constantina de la constantina de la constantina del constantina de la constantina del constantina de la constantina del constantina d
1111	<u>c)</u>	Documentation demonstrating the provider of the combustion tuning training
1112		course, the dates the training course was taken, and proof of successful
1113		completion of the training course;
1114	1)	
1115	<u>d)</u>	Tune-up procedure followed and checklist of items (such as burners, flame
1116		conditions, air supply, scaling on heating surface, etc.) inspected prior to the
1117		actual tune-up; and
1118		
1119	<u>e)</u>	Operating parameters recorded at the start and at conclusion of combustion
1120		tuning.
1121	(C	A 11-1 -4 22 TI1 D (C4:
1122	(Sourc	ce: Added at 33 Ill. Reg, effective)
1123		GUDDADTE, DDOCEGGUEATEDG
1124		SUBPART F: PROCESS HEATERS
1125	Continue 217 1	90 Applicability
1126	Section 21/.1	80 Applicability
1127	The previous	og of Subnort D of this Dort and this Subnort and the all masses haster 1 - 11 11
l 128 l 129		s of Subpart D of this Part and this Subpart apply to all process heaters located at ct to this Subpart pursuant to Section 217.150.
1129	sources subte	ct to this suppart dursuant to section 217.150.

1130 1131	(So	urce: Added at 33 Ill.	Reg.	, effective)				
1132	(Source: Fidded at 33 III. Rog)								
1133	Section 217.182 Exemptions								
1134									
1135					not apply to a process heater				
1136				limit of NO _x emissions from	such heater to less than 15				
1137	tons per ye	ar and less than five to	ons per	ozone season.					
1138 1139	(So	urce: Added at 33 Ill.	Reg	, effective)				
1140									
1141	Section 21	7.184 Emissions Lin	<u>nitatior</u>	<u>18</u>					
1142	0 1 0				2270				
1143		•	~	shall cause or allow emission					
1144				exceed the following limitati					
1145	demonstrat	ed with the applicable	emissi	ons limitation on an ozone s	eason and annual basis.				
1146			.		No _x Emissions Limitation				
	T.	1		sion Unit Type and Rated	(lb/mmBtu) or				
	<u>Fue</u>	<u> </u>	Heat I	nput Capacity (mmBtu/hr)	<u>Requirement</u>				
	<u>a)</u>	Natural Gas or Other Gaseous Fuels	<u>1)</u>	Process heater greater than 100	0.08				
		<u>rueis</u>	<u>2)</u>	Process heater less than or equal to 100	Combustion tuning				
	<u>b)</u>	Residual Fuel Oil	<u>1)</u>	Process heater greater than 100, natural draft	0.10				
			<u>2)</u>	Process heater greater than 100, mechanical	0.15				
			<u>3)</u>	draft Process heater less than or equal to 100	Combustion tuning				
	<u>c)</u>	Other Liquid Fuels	<u>1)</u>	Process heater greater than 100, natural draft	0.05				

2) Process heater greater than 100, mechanical

draft

0.08

		3) Process heater less than or Combustion tuning equal to 100
1147		oquar to 100
1148	(Sou	rce: Added at 33 Ill. Reg, effective)
1149	`	
1150	Section 217	185 Combination of Fuels
1151		
1152		r operator of a process heater subject to this Subpart and operated with any
1153	combination	of fuels must comply with a heat input weighted average emissions limitation to
1154	demonstrate	compliance with Section 217.184.
1155		
1156	(Sou	rce: Added at 33 Ill. Reg, effective
1157		
1158	Section 217.	186 Methods and Procedures for Combustion Tuning
	and a	
	records that	must be made available to the Agency upon request:
1166		
1167	<u>a)</u>	The date the combustion tuning was performed;
1169	<u>b)</u>	The name, title, and affiliation of the person who performed the combustion
1170		tuning;
1171		
1172	<u>c)</u>	Documentation demonstrating the provider of the combustion tuning training
1173		course, the dates the training course was taken, and proof of successful
1174		completion of the training course;
1175		
1176	<u>d)</u>	Tune-up procedure followed and checklist of items (such as burners, flame
1177		conditions, air supply, scaling on heating surface, etc.) inspected prior to the
	e)	Operating parameters recorded at the start and at conclusion of combustion
		
	(Sour	rce: Added at 33 III. Reg effective)
	(5541	
		SUBPART G: GLASS MELTING FURNACES
		The second secon
	Section 217.	200 Applicability
1168 1169 1170 1171 1172 1173 1174 1175	Section 217. combustion who has succ fuel or fuels records that a) b) c) d) e) (Sour	The name, title, and affiliation of the person who performed the combustion tuning; Documentation demonstrating the provider of the combustion tuning training course, the dates the training course was taken, and proof of successful completion of the training course; Tune-up procedure followed and checklist of items (such as burners, flame conditions, air supply, scaling on heating surface, etc.) inspected prior to the actual tune-up; and Operating parameters recorded at the start and at conclusion of combustion tuning. The name, title, and affiliation of the person who performed the combustion tuning training training training course, the dates the training course was taken, and proof of successful completion of the training course; and proof of successful completion of the training course; and the successful completion of the training course; and conditions, air supply, scaling on heating surface, etc.) inspected prior to the actual tune-up; and Operating parameters recorded at the start and at conclusion of combustion tuning. The name, title, and affiliation of the provider of the combustion tuning training course, the dates the training course was taken, and proof of successful completion of the combustion of the provider of the combustion of the combustion tuning.

Section 217.200 Applicability

1188								
1189	The provisions of Subpart D of this Part and this Subpart apply to all glass melting furnaces							
1190	located at sources subject to this Subpart pursuant to Section 217.150.							
1191	/~							
1192	(Sour	ce: Added at 33 III. Reg	g, effective)				
1193	0 - 4 017 0	303 E						
1194 1195	Section 217.2	202 Exemptions						
1196	Notwithstand	ling Section 217 200 th	ne provisions of this Subpart do	not annly to a glass melting				
1197			enforceable limit of NO _x emissi					
1198			ve tons per ozone season.	ons from such furnace to less				
1199	than 15 tons	per year and less than in	ve tons per ozone season.					
1200	(Sour	ce: Added at 33 Ill. Reg	g, effective)				
1201								
1202	Section 217.2	<u>204 Emissions Limita</u>	<u>tions</u>					
1203								
1204	<u>a)</u>		1, 2012, no person shall cause of					
1205			rom any glass melting furnace t					
1206		limitations. Complia	nce must be demonstrated with	the emissions limitation on				
1207		an ozone season and	annual basis.					
1208								
				No _x Emissions Limitation				
		<u>Product</u>	Emission Unit Type	(lb/ton glass produced)				
		1) Container Glass	Glass melting furnace	<u>5.0</u>				
		1) Container Class	Stass metang ranas	<u></u>				
		2) Flot Class	Class malting frances	7.0				
		2) Flat Glass	Glass melting furnace	<u>7.9</u>				
		4) 01 01						
		3) Other Glass	Glass melting furnace	<u>11.0</u>				
1209								
1210	<u>b)</u>	The emissions limitat	ions under this Section do not a	apply during glass melting				
1211			exceed 70 days) or idling (ope					
1212			the purposes of demonstrating					
1213			sions limitation during such per	***************************************				
1214		follows:	8					
1215		10110 11 0.						
1216		NO., er	missions limitation $(lb/day) = (a + b)$	ANL)/(PPC)				
1217		<u> </u>	(A					
1217		Where:						
1219		1, 11010.						
1417		ANL =	The applicable NO _x emissions	limitation under this Section				
		711/17	in pounds per ton of glass prod					
			III barriera bar rour or Press broc					

			$\frac{PPC}{\frac{day}{}} = \frac{Permitted prod}{\frac{day}{}}$	uction capacity in tons of glass produced per
	(Sou	rce: Ad	ded at 33 Ill. Reg, effective	re)
			SUBPART H: CEMENT	AND LIME KILNS
<u>Se</u>	ction 217	.220 A _I	oplicability	
	<u>a)</u>	and t		rt, the provisions of Subpart D of this Part cilns located at sources subject to this
	<u>b)</u>			art and this Subpart apply to all lime kilns part pursuant to Section 217.150.
	(Sou	rce: Ad	ded at 33 Ill. Reg, effective	re)
Sec	ction 217	.222 Ex	<u>cemptions</u>	
~~				
<u>No</u>	twithstan	ding Sec	ction 217.220, the provisions of	this Subpart do not apply to a cement kiln or
lim	<u>ne kiln op</u> e	erating ι	<u>ınder a federally enforceable lim</u>	nit of NO _x emissions from such kiln to less
<u>tha</u>	ın 15 tons	per yea	r and less than five tons per ozor	ne season.
	(Sou	rce: Ad	ded at 33 Ill. Reg, effective	re)
_	015	224 E		
Sec	ction 217.	.224 Er	nissions Limitations	
	<u>a)</u>	On ar	nd after January 1, 2012, no nero	on shall cause or allow emissions of NO _x
	<u>a)</u>			$\frac{1}{100}$ kiln to exceed the following limitations.
				th the applicable emissions limitation on an
			e season and annual basis.	
				No _x Emissions Limitation
			Emission Unit Type	(lb/ton clinker produced)
		<u>1)</u>	Long dry kiln	<u>5.1</u>
		<u>2)</u>	Short dry kiln	<u>5.1</u>
		<u>3)</u>	Preheater kiln	<u>3.8</u>
		<u>4)</u>	Preheater/precalciner kiln	<u>2.8</u>
		-		
	<u>b)</u>	On ar	nd after January 1, 2012, no pers	on shall cause or allow emissions of NO _x
		into t	he atmosphere from any lime kil	n to exceed the following limitations.

1254		Cor	npliance mus	st be demonstrated with the a	pplicable emissions limitation on an
1255			-	d annual basis.	* *
1256					
					NT. The indicate Timitestica
			17 1	ne	No _x Emissions Limitation
			<u>Fuel</u>	Emission Unit Type	(lb/ton lime produced)
		<u>1)</u>	<u>Gas</u>	<u>Rotary kiln</u>	<u>2.2</u>
		<u>2)</u>	Coal	Rotary kiln	<u>2.5</u>
1257 1258	(So	urce: A	dded at 33 Il	l. Reg, effective)
1259 1260	<u>S</u>	UBPAF	RT I: IRON	AND STEEL AND ALUMI	NUM MANUFACTURING
1261					
1262	Section 21'	7.240 A	Applicability	, •	
1263					
1264	<u>a)</u>	<u>The</u>	provisions o	of Subpart D of this Part and	this Subpart apply to all reheat
1265		<u>furr</u>	naces, anneali	ing furnaces, and galvanizing	g furnaces used in iron and steel
1266		mak	cing located a	at sources subject to this Sub	part pursuant to Section 217.150.
1267					•
1268	<u>b)</u>	The	provisions o	of Subpart D of this Part and	this Subpart apply to all
1269					used in aluminum melting located at
1270				o this Subpart pursuant to Se	
1271				<u> </u>	
1272	(So	urce: A	dded at 33 Il	l. Reg, effective)
1273					
1274	Section 21'	7.242 H	Exemptions		
1275					
1276	Notwithstan	nding S	ection 217.24	40, the provisions of this Sub	part do not apply to an iron and steel
1277	reheat furna	ace, ann	ealing furnac	ce, or galvanizing furnace, or	aluminum reverberatory furnace or
1278	crucible fur	nace or	erating unde	r a federally enforceable lim	it of NO _x emissions from such
1279	furnace to l	ess thar	15 tons per	year and less than five tons	per ozone season.
1280					
1281	(Son	urce: A	dded at 33 II	l. Reg, effective)
1282	`				
1283	Section 21	7.244 F	Emissions Li	mitations	
1284					
1285	<u>a)</u>	On	and after Jan	uary 1, 2012, no person shall	cause or allow emissions of NO _x
1286	<u></u>				annealing furnace, or galvanizing
1287				ron and steel making to exce	
1288					pplicable emissions limitation on an
1289			_	d annual basis.	pp. 10000 officerous minimum off the
1290		020	ne beasen and	a militar outility	

			Emission Unit Type	No _x Emissions Limitation (lb/mmBtu)		
		<u>1)</u>	Reheat furnace, regenerative	0.18		
		<u>2)</u>	Reheat furnace, recuperative, combusting natural gas	0.09		
		<u>3)</u>	Reheat furnace, recuperative, combusting a combination of natural gas and coke oven gas	0.142		
		<u>4)</u>	Reheat furance, cold-air	<u>0.03</u>		
		<u>5)</u>	Annealing furnace, regenerative	0.38		
		<u>6)</u>	Annealing furnace, recuperative	<u>0.16</u>		
		<u>7)</u>	Annealing furance, cold-air	0.07		
		<u>8)</u>	Galvanizing furnace, regenerative	<u>0.46</u>		
		<u>9)</u>	Galvanizing furnace, recuperative	<u>0.16</u>		
1291		<u>10)</u>	Galvanizing furnace, cold air	<u>0.06</u>		
1292 1293 1294 1295 1296 1297	<u>b)</u>	On and after January 1, 2012, no person shall cause or allow emissions of NO_x into the atmosphere from any reverberatory furnace or crucible furnace used in aluminum melting to exceed the following limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis.				
			Emission Unit Type	<u>No_x Emissions</u> Limitation (lb/mmBtu)		
		1)	Reverberatory furnace	<u>5.1</u>		
		<u>1)</u> 2)	Crucible furnace	5.1		
1298 1299 1300 1301	(Source: Added at 33 Ill. Reg, effective) SUBPART M: ELECTRICAL GENERATING UNITS					
1302 1303 Section 217.340 Applicability						
1304 1305 1306 1307 1308 1309	Notwithstanding Subpart V or W of this Part, the provisions of Subpart D of this Part and this Subpart apply to any fuel-fired stationary boiler serving a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, excluding any units listed in Appendix D of this Part, located at sources subject to this Subpart pursuant to Section 217.150.					

1310		(Sourc	e: Added at 33 Ill	Reg.	, effective			
1311								
1312	Section	1 21/.3	42 Exemptions					
1313		2)	NI-title-todim	Castia	- 217 240 the manification of the	- Cl., and d		
1314		<u>a)</u>			n 217.340, the provisions of this			
1315					ry boiler operating under a fede			
1316					ch boiler to less than 15 tons per	r year and less than five		
1317			tons per ozone se	ason.				
1318		1.	3. T	a .•	015 040 4			
1319		<u>b)</u>			n 217.340, the provisions of this	* * * * * * * * * * * * * * * * * * * *		
1320			coal-fired stationary boiler that commenced operation before January 1, 2008, that					
1321		is complying with 35 Ill. Adm. Code 225. Subpart B through the multi-pollutant						
1322	standard under 35 Ill. Adm. Code 225.233 or the combined pollutant standards							
1323	under 35 Ill. Adm. Code 225.Subpart F.							
1324								
1325	(Source: Added at 33 Ill. Reg, effective)							
1326								
1327	Section 217.344 Emissions Limitations							
1328								
1329	On and after January 1, 2012, no person shall cause or allow emissions of NO _x into the							
1330	atmosphere from any fossil fuel-fired stationary boiler to exceed the following limitations.							
1331	Compliance must be demonstrated with the applicable emissions limitation on an ozone season							
1332	and anı	nual bas	<u>sis.</u>					
1333								
						No _x Emissions		
		<u>Fuel</u>		<u>Emiss</u>	sion Unit Type	Limitation (lb/mmBtu)		
		`	G 1' 1	D . 1		0.12		
		<u>a)</u>	Solid	<u>Boile</u>	<u>r</u>	0.12		
		<u>b)</u>	Natural gas	Boile	<u>r</u>	0.06		
		<u>c)</u>	<u>Liquid</u>	<u>1)</u>	Boiler that commenced operation before January 1, 2008	0.10		
				<u>2)</u>	Boiler that commenced operation on or after January 1, 2008	0.08		
1334								
1335		(Source	e: Added at 33 Ill	. Reg.	, effective	_)		
1336								

Section 217.345 Combination of Fuels

The owner or operator of a fossil fuel-fired stationary boiler subject to this Subpart and operated
with any combination of fuels must comply with a heat input weighted average emissions
limitation to demonstrate compliance with Section 217.344.
(Source: Added at 33 Ill. Reg, effective)

<u>Section 217.APPENDIX H Compliance Dates for Certain Emission Units at Petroleum Refineries</u>

ExxonMobil Oil Corporation (Facility ID 197800AAA)

Point	Emission Unit Description	Compliance Date
0019	Crude Vacuum Heater (13-B-2)	December 31, 2014
0038	Alky Iso-Stripper Reboiler (7-B-1)	December 31, 2014
0033	CHD Charge Heater (3-B-1)	December 31, 2014
0034	CHD Stripper Reboiler (3-B-2)	December 31, 2014
0021	Coker East Charge Heater (16-B-1A)	December 31, 2014
0021	Coker East Charge Heater (16-B-1B)	December 31, 2014
0018	Crude Atmospheric Heater (1-B-1A)	December 31, 2014
0018	Crude Atmospheric Heater (1-B-1B)	December 31, 2014
0017	BEU HM-1	December 31, 2012
0018	BEU HM-2	December 31, 2012
0004	CR-1 Feed Preheat, H-1	December 31, 2012
0005	CR-1 1 st Interreactor Heater, H-2	December 31, 2012
0009	CR-1 3 rd Interreactor Heater, H-7	December 31, 2012
0091	CR-3 Charge Heater	December 31, 2012
0092	CR-3 1 st Reheat Heater, H-5	December 31, 2012
0082	Boiler 17	December 31, 2012
0080	Boiler 15	December 31, 2012
0073	Alky HM-2 Heater	December 31, 2012
0662	VF-4 Charge Heater, H-28	December 31, 2012
0664	DU-4 Charge Heater, H-24	December 31, 2014
0617	DCU Charge Heater, H-20	December 31, 2014
0014	HCU Fractionator Reboil, H-3	December 31, 2016
0024	DU-1 Primary Heater South, F-301	December 31, 2016
0025	DU-1 Secondary Heater North, F-302	December 31, 2016
0081	Boiler 16	December 31, 2016
0083	Boiler 18	December 31, 2016
0095	DHT Charge Heater	December 31, 2016
0028	DU-2 Lube Crude Heater, F-200	December 31, 2016
0029	DU-2 Mixed Crude Heater West, F-202	December 31, 2016
0030	DU-2 Mixed Crude Heater East, F-203	December 31, 2016

	0084	CR-2 North Heater	December 31, 2016			
	<u>0017</u>	BEU HM-1	December 31, 2012			
1350						
1351	ConocoPhi	oPhillips Company Wood River Refinery (Facility ID 119090AAA)				
1352						
1353	(So	urce: Added at 33 Ill. Reg, effective)			