

# OFFICE OF THE SECRETARY OF STATE

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May 15, 2009

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MAY 1 9 2009

STATE OF ILLINOIS Pollution Control Board

POLLUTION CONTROL BOARD JOHN THERRIAULT ASSISTANT CLERK 100 W RANDOLPH ST, STE 11-500 CHICAGO, IL 60601

## Dear JOHN THERRIAULT ASSISTANT CLERK

Your rules Listed below met our codification standards and have been published in Volume 33, Issue 21 of the Illinois Register, dated 5/22/2009.

#### PROPOSED RULES

Definitions and General Provisions
35 Ill. Adm. Code 211
Point of Contact: Nancy Miller

6896

Nitrogen Oxides Emissions 35 Ill. Adm. Code 217 Point of Contact: Nancy Miller

6921

If you have any questions, you may contact the Administrative Code Division at (217) 782 - 7017.



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#### NOTICE OF PROPOSED AMENDMENTS

1) Heading of the Part: Definitions and General Procedures

2) Code Citation: 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 Ill. Adm. Code 217</u>, <u>Nitrogen Oxides Emissions</u>, and 35 Ill. Adm. Code 211, 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<sub>x</sub>) 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) Published studies or reports, and sources of underlying data, used to compose this rulemaking:

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 U.S.C. § 7401 et seq.);
- 2. Illinois Environmental Protection Act (415 ILCS 5/1 et seq.);
- 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;

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- 13. Rajani Varagani (n.d.), "A Cost Effective Low NOx 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 NOx 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<sub>x</sub>: 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<sub>x</sub> 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 NOx Emissions," November 1997;
- 25. http://www.cormetech.com/experience.htm;

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- 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<sub>x</sub> 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. <a href="http://www.epa.gov/air/ozonepollution/SIPToolkit/documents/stationary">http://www.epa.gov/air/ozonepollution/SIPToolkit/documents/stationary</a> nox list.pdf;
- 37. http://www.callidus.com/pages/next\_gen.htm;

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- 38. Heat Input Affects NOx 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/sota12.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<sub>x</sub> Emissions from Cement Kiln/Calciner through the Use of the NOxOUT 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<sub>x</sub> 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<sub>x</sub>), Why and How They Are Controlled, EPA-456/F-99-006R, November 1999. http://www.epa.gov/ttn/catc/dir1/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);

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- 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<sub>x</sub> SIP Call, FIP, and Section 126 Petitions, Volume 1: Costs and Economic Impacts, September 1998;
- 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;
- 755. Rowlan, Steven J. and Sun, William H., "NO<sub>x</sub> 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. <a href="http://www.gastechnology.org/webroot/app/xn/xd.aspx?it=enweb&xd=4reportspubs%5C4">http://www.gastechnology.org/webroot/app/xn/xd.aspx?it=enweb&xd=4reportspubs%5C4</a> 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;

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- 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<sub>x</sub>) and oxides of Sulfur (SO<sub>x</sub>), amended January 7, 2005;
- 67. <a href="http://www.epa.gov/ttn/emc/cem.html">http://www.epa.gov/ttn/emc/cem.html</a>; 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 proposed rule replace an emergency rule currently in effect? No.
- 8) Does this rulemaking contain an automatic repeal date? No.
- 9) Does this proposed rule contain incorporations by reference? Yes.
- 10) Are there any other proposed rules pending on this Part?

Section Numbers: 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 rule does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2006)].
- 12) <u>Time, Place, and Manner in which interested persons may comment on this proposed</u> rulemaking:

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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) <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 (30 Ill. Reg. 11906-08).

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

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

# PART 211 DEFINITIONS AND GENERAL PROVISIONS

# SUBPART A: GENERAL PROVISIONS

| Section |                                      |
|---------|--------------------------------------|
| 211.101 | Incorporations by Reference          |
| 211.102 | Abbreviations and Conversion Factors |
|         |                                      |
|         | SUBPART B: DEFINITIONS               |
| Section |                                      |
| 211.121 | Other Definitions                    |
| 211.122 | Definitions (Repealed)               |
| 211.130 | Accelacota                           |
| 211.150 | Accumulator                          |
| 211.170 | Acid Gases                           |
| 211.210 | Actual Heat Input                    |
| 211.230 | Adhesive                             |
| 211.240 | Adhesion Promoter                    |
| 211.250 | Aeration                             |
| 211.270 | Aerosol Can Filling Line             |
| 211.290 | Afterburner                          |
| 211.310 | Air Contaminant                      |
| 211.330 | Air Dried Coatings                   |
| 211.350 | Air Oxidation Process                |
| 211.370 | Air Pollutant                        |
| 211.390 | Air Pollution                        |
| 211.410 | Air Pollution Control Equipment      |
| 211.430 | Air Suspension Coater/Dryer          |
| 211.450 | Airless Spray                        |
| 211.470 | Air Assisted Airless Spray           |
| 211.474 | Alcohol                              |
| 211.479 | Allowance                            |
| 211.484 | Animal                               |
|         |                                      |

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| 211.485 | Animal Pathological Waste  |
|---------|--|
| 211.490 | Annual Grain Through-Put   |
| 211.495 | Anti-Glare/Safety Coating  |
| 211.510 | Application Area   |
| 211.530 | Architectural Coating  |
| 211.550 | As Applied   |
| 211.560 | As-Applied Fountain Solution   |
| 211.570 | Asphalt  |
| 211.590 | Asphalt Prime Coat   |
| 211.610 | Automobile   |
| 211.630 | Automobile or Light-Duty Truck Assembly Source or Automobile or Light-Duty |
|         | Truck Manufacturing Plant  |
| 211.650 | Automobile or Light-Duty Truck Refinishing                                 |
| 211.660 | Automotive/Transportation Plastic Parts                                    |
| 211.665 | Auxiliary Boiler   |
| 211.670 | Baked Coatings   |
| 211.680 | Bakery Oven  |
| 211.685 | Basecoat/Clearcoat System  |
| 211.690 | Batch Loading  |
| 211.695 | Batch Operation  |
| 211.696 | Batch Process Train  |
| 211.710 | Bead-Dipping   |
| 211.730 | Binders  |
| 211.740 | Brakehorsepower (rated-bhp)  |
| 211.750 | British Thermal Unit   |
| 211.770 | Brush or Wipe Coating  |
| 211.790 | Bulk Gasoline Plant  |
| 211.810 | Bulk Gasoline Terminal   |
| 211.820 | Business Machine Plastic Parts   |
| 211.830 | Can  |
| 211.850 | Can Coating  |
| 211.870 | Can Coating Line   |
| 211.890 | Capture  |
| 211.910 | Capture Device   |
| 211.930 | Capture Efficiency   |
| 211.950 | Capture System   |
| 211.953 | Carbon Adsorber  |
| 211.955 | Cement   |
| 211.960 | Cement Kiln  |
| 211.970 | Certified Investigation  |

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| 211.980         | Chemical Manufacturing Process Unit            |
|-----------------|--|
| 211.990         | Choke Loading                                  |
| <u>211.995</u>  | Circulating Fluidized Bed Combustor            |
| 211.1010        | Clean Air Act                                  |
| 211.1050        | Cleaning and Separating Operation              |
| 211.1070        | Cleaning Materials                             |
| 211.1090        | Clear Coating                                  |
| 211.1110        | Clear Topcoat                                  |
| 211.1120        | Clinker  |
| 211.1130        | Closed Purge System                            |
| 211.1150        | Closed Vent System                             |
| 211.1170        | Coal Refuse                                    |
| 211.1190        | Coating  |
| 211.1210        | Coating Applicator                             |
| 211.1230        | Coating Line                                   |
| 211.1250        | Coating Plant                                  |
| 211.1270        | Coil Coating                                   |
| 211.1290        | Coil Coating Line                              |
| 211.1310        | Cold Cleaning                                  |
| 211.1312        | Combined Cycle System                          |
| 211.1315        | Combustion Tuning                              |
| 211.1316        | Combustion Turbine                             |
| 211.1320        | Commence Commercial Operation                  |
| 211.1324        | Commence Operation                             |
| 211.1328        | Common Stack                                   |
| 211.1330        | Complete Combustion                            |
| 211.1350        | Component                                      |
| 211.1370        | Concrete Curing Compounds                      |
| 211.1390        | Concentrated Nitric Acid Manufacturing Process |
| 211.1410        | Condensate                                     |
| 211.1430        | Condensible PM-10                              |
| <u>211.1435</u> | Container Glass                                |
| 211.1465        | Continuous Automatic Stoking                   |
| 211.1467        | Continuous Coater                              |
| 211.1470        | Continuous Process                             |
| 211.1490        | Control Device                                 |
| 211.1510        | Control Device Efficiency                      |
| 211.1515        | Control Period                                 |
| 211.1520        | Conventional Air Spray                         |
| 211.1530        | Conventional Soybean Crushing Source           |

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| 211.1550 | Conveyorized Degreasing   |
|----------|---|
| 211.1570 | Crude Oil   |
| 211.1590 | Crude Oil Gathering   |
| 211.1610 | Crushing  |
| 211.1630 | Custody Transfer  |
| 211.1650 | Cutback Asphalt   |
| 211.1670 | Daily-Weighted Average VOM Content  |
| 211.1690 | Day   |
| 211.1710 | Degreaser   |
| 211.1730 | Delivery Vessel   |
| 211.1740 | Diesel Engine   |
| 211.1750 | Dip Coating   |
| 211.1770 | Distillate Fuel Oil   |
| 211.1780 | Distillation Unit   |
| 211.1790 | Drum  |
| 211.1810 | Dry Cleaning Operation or Dry Cleaning Facility                               |
| 211.1830 | Dump-Pit Area   |
| 211.1850 | Effective Grate Area  |
| 211.1870 | Effluent Water Separator  |
| 211.1875 | Elastomeric Materials   |
| 211.1880 | Electromagnetic Interference/Radio Frequency Interference (EMI/RFI) Shielding |
|          | Coatings  |
| 211.1885 | Electronic Component  |
| 211.1890 | Electrostatic Bell or Disc Spray  |
| 211.1900 | Electrostatic Prep Coat   |
| 211.1910 | Electrostatic Spray   |
| 211.1920 | Emergency or Standby Unit   |
| 211.1930 | Emission Rate   |
| 211.1950 | Emission Unit   |
| 211.1970 | Enamel  |
| 211.1990 | Enclose   |
| 211.2010 | End Sealing Compound Coat   |
| 211.2030 | Enhanced Under-the-Cup Fill   |
| 211.2050 | Ethanol Blend Gasoline  |
| 211.2070 | Excess Air  |
| 211.2080 | Excess Emissions  |
| 211.2090 | Excessive Release   |
| 211.2110 | Existing Grain-Drying Operation (Repealed)                                    |
| 211.2130 | Existing Grain-Handling Operation (Repealed)                                  |
| 211.2150 | Exterior Base Coat  |
|          |   |

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| 211.2170 | Exterior End Coat  |
|----------|--|
| 211.2190 | External Floating Roof   |
| 211.2210 | Extreme Performance Coating                                      |
| 211.2230 | Fabric Coating   |
| 211.2250 | Fabric Coating Line  |
| 211.2270 | Federally Enforceable Limitations and Conditions                 |
| 211.2285 | Feed Mill  |
| 211.2290 | Fermentation Time  |
| 211.2300 | Fill   |
| 211.2310 | Final Repair Coat  |
| 211.2330 | Firebox  |
| 211.2350 | Fixed-Roof Tank  |
| 211.2355 | Flare  |
| 211.2357 | Flat Glass   |
| 211.2360 | Flexible Coating   |
| 211.2365 | Flexible Operation Unit  |
| 211.2370 | Flexographic Printing  |
| 211.2390 | Flexographic Printing Line                                       |
| 211.2410 | Floating Roof  |
| 211.2420 | Fossil Fuel  |
| 211.2425 | Fossil Fuel-Fired  |
| 211.2430 | Fountain Solution  |
| 211.2450 | Freeboard Height   |
| 211.2470 | Fuel Combustion Emission Unit or Fuel Combustion Emission Source |
| 211.2490 | Fugitive Particulate Matter                                      |
| 211.2510 | Full Operating Flowrate  |
| 211.2530 | Gas Service  |
| 211.2550 | Gas/Gas Method   |
| 211.2570 | Gasoline   |
| 211.2590 | Gasoline Dispensing Operation or Gasoline Dispensing Facility    |
| 211.2610 | Gel Coat   |
| 211.2620 | Generator  |
| 211.2625 | Glass Melting Furnace  |
| 211.2630 | Gloss Reducers   |
| 211.2650 | Grain  |
| 211.2670 | Grain-Drying Operation   |
| 211.2690 | Grain-Handling and Conditioning Operation                        |
| 211.2710 | Grain-Handling Operation   |
| 211.2730 | Green-Tire Spraying  |
| 211.2750 | Green Tires  |

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| 211.2770        | Gross Heating Value                             |
|-----------------|---|
| 211.2790        | Gross Vehicle Weight Rating                     |
| 211.2810        | Heated Airless Spray                            |
| 211.2815        | Heat Input                                      |
| 211.2820        | Heat Input Rate                                 |
| 211.2830        | Heatset   |
| 211.2850        | Heatset Web Offset Lithographic Printing Line   |
| 211.2870        | Heavy Liquid                                    |
| 211.2890        | Heavy Metals                                    |
| 211.2910        | Heavy Off-Highway Vehicle Products              |
| 211.2930        | Heavy Off-Highway Vehicle Products Coating      |
| 211.2950        | Heavy Off-Highway Vehicle Products Coating Line |
| 211.2970        | High Temperature Aluminum Coating               |
| 211.2990        | High Volume Low Pressure (HVLP) Spray           |
| 211.3010        | Hood  |
| 211.3030        | Hot Well  |
| 211.3050        | Housekeeping Practices                          |
| 211.3070        | Incinerator                                     |
| 211.3090        | Indirect Heat Transfer                          |
| 211.3100        | Industrial Boiler                               |
| 211.3110        | Ink   |
| 211.3130        | In-Process Tank                                 |
| 211.3150        | In-Situ Sampling Systems                        |
| 211.3170        | Interior Body Spray Coat                        |
| 211.3190        | Internal-Floating Roof                          |
| 211.3210        | Internal Transferring Area                      |
| 211.3230        | Lacquers  |
| 211.3250        | Large Appliance                                 |
| 211.3270        | Large Appliance Coating                         |
| 211.3290        | Large Appliance Coating Line                    |
| 211.3300        | Lean-Burn Engine                                |
| 211.3310        | Light Liquid                                    |
| 211.3330        | Light-Duty Truck                                |
| 211.3350        | Light Oil                                       |
| <u>211.3355</u> | <u>Lime Kiln</u>                                |
| 211.3370        | Liquid/Gas Method                               |
| 211.3390        | Liquid-Mounted Seal                             |
| 211.3410        | Liquid Service                                  |
| 211.3430        | Liquids Dripping                                |
| 211.3450        | Lithographic Printing Line                      |

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

# POLLUTION CONTROL BOARD

| 211.3990        | New Grain-Drying Operation (Repealed)                                      |
|-----------------|--|
| 211.4010        | New Grain-Handling Operation (Repealed)                                    |
| 211.4030        | No Detectable Volatile Organic Material Emissions                          |
| 211.4050        | Non-Contact Process Water Cooling Tower                                    |
| 211.4055        | Non-Flexible Coating   |
| 211.4065        | Non-Heatset  |
| 211.4067        | NO <sub>X</sub> Trading Program  |
| 211.4070        | Offset   |
| 211.4090        | One Hundred Percent Acid   |
| 211.4110        | One-Turn Storage Space   |
| 211.4130        | Opacity  |
| 211.4150        | Opaque Stains  |
| 211.4170        | Open Top Vapor Degreasing  |
| 211.4190        | Open-Ended Valve   |
| 211.4210        | Operator of a Gasoline Dispensing Operation or Operator of a Gasoline      |
|                 | Dispensing Facility  |
| 211.4230        | Organic Compound   |
| 211.4250        | Organic Material and Organic Materials                                     |
| 211.4260        | Organic Solvent  |
| 211.4270        | Organic Vapor  |
| <u>211.4280</u> | Other Glass  |
| 211.4290        | Oven   |
| 211.4310        | Overall Control  |
| 211.4330        | Overvarnish  |
| 211.4350        | Owner of a Gasoline Dispensing Operation or Owner of a Gasoline Dispensing |
|                 | Facility   |
| 211.4370        | Owner or Operator  |
| 211.4390        | Packaging Rotogravure Printing   |
| 211.4410        | Packaging Rotogravure Printing Line  |
| 211.4430        | Pail   |
| 211.4450        | Paint Manufacturing Source or Paint Manufacturing Plant                    |
| 211.4470        | Paper Coating  |
| 211.4490        | Paper Coating Line   |
| 211.4510        | Particulate Matter   |
| 211.4530        | Parts Per Million (Volume) or PPM (Vol)                                    |
| 211.4550        | Person   |
| 211.4590        | Petroleum  |
| 211.4610        | Petroleum Liquid   |
| 211.4630        | Petroleum Refinery   |
| 211.4650        | Pharmaceutical   |

# POLLUTION CONTROL BOARD

| 211.4670        | Pharmaceutical Coating Operation                               |
|-----------------|--|
| 211.4690        | Photochemically Reactive Material                              |
| 211.4710        | Pigmented Coatings   |
| 211.4730        | Plant  |
| 211.4740        | Plastic Part   |
| 211.4750        | Plasticizers   |
| 211.4770        | PM-10  |
| 211.4790        | Pneumatic Rubber Tire Manufacture                              |
| 211.4810        | Polybasic Organic Acid Partial Oxidation Manufacturing Process |
| 211.4830        | Polyester Resin Material(s)                                    |
| 211.4850        | Polyester Resin Products Manufacturing Process                 |
| 211.4870        | Polystyrene Plant  |
| 211.4890        | Polystyrene Resin  |
| 211.4910        | Portable Grain-Handling Equipment                              |
| 211.4930        | Portland Cement Manufacturing Process Emission Source          |
| 211.4950        | Portland Cement Process or Portland Cement Manufacturing Plant |
| 211.4960        | Potential Electrical Output Capacity                           |
| 211.4970        | Potential to Emit  |
| 211.4990        | Power Driven Fastener Coating                                  |
| 211.5010        | Precoat  |
| 211.5015        | Preheater Kiln   |
| 211.5020        | Preheater/Precalciner Kiln                                     |
| 211.5030        | Pressure Release   |
| 211.5050        | Pressure Tank  |
| 211.5060        | Pressure/Vacuum Relief Valve                                   |
| 211.5061        | Pretreatment Wash Primer                                       |
| 211.5065        | Primary Product  |
| 211.5070        | Prime Coat   |
| 211.5080        | Primer Sealer  |
| 211.5090        | Primer Surfacer Coat   |
| 211.5110        | Primer Surfacer Operation                                      |
| 211.5130        | Primers  |
| 211.5150        | Printing   |
| 211.5170        | Printing Line  |
| 211.5185        | Process Emission Source  |
| 211.5190        | Process Emission Unit  |
| <u>211.5195</u> | Process Heater   |
| 211.5210        | Process Unit   |
| 211.5230        | Process Unit Shutdown  |
| 211.5245        | Process Vent   |

# POLLUTION CONTROL BOARD

| 211.5250 | Process Weight Rate                            |
|----------|--|
| 211.5270 | Production Equipment Exhaust System            |
| 211.5310 | Publication Rotogravure Printing Line          |
| 211.5330 | Purged Process Fluid                           |
| 211.5340 | Rated Heat Input Capacity                      |
| 211.5350 | Reactor  |
| 211.5370 | Reasonably Available Control Technology (RACT) |
| 211.5390 | Reclamation System                             |
| 211.5410 | Refiner  |
| 211.5430 | Refinery Fuel Gas                              |
| 211.5450 | Refinery Fuel Gas System                       |
| 211.5470 | Refinery Unit or Refinery Process Unit         |
| 211.5480 | Reflective Argent Coating                      |
| 211.5490 | Refrigerated Condenser                         |
| 211.5500 | Regulated Air Pollutant                        |
| 211.5510 | Reid Vapor Pressure                            |
| 211.5530 | Repair   |
| 211.5550 | Repair Coat                                    |
| 211.5570 | Repaired                                       |
| 211.5580 | Repowering                                     |
| 211.5590 | Residual Fuel Oil                              |
| 211.5600 | Resist Coat                                    |
| 211.5610 | Restricted Area                                |
| 211.5630 | Retail Outlet                                  |
| 211.5640 | Rich-Burn Engine                               |
| 211.5650 | Ringelmann Chart                               |
| 211.5670 | Roadway  |
| 211.5690 | Roll Coater                                    |
| 211.5710 | Roll Coating                                   |
| 211.5730 | Roll Printer                                   |
| 211.5750 | Roll Printing                                  |
| 211.5770 | Rotogravure Printing                           |
| 211.5790 | Rotogravure Printing Line                      |
| 211.5810 | Safety Relief Valve                            |
| 211.5830 | Sandblasting                                   |
| 211.5850 | Sanding Sealers                                |
| 211.5870 | Screening                                      |
| 211.5880 | Screen Printing on Paper                       |
| 211.5890 | Sealer   |
| 211.5910 | Semi-Transparent Stains                        |

# POLLUTION CONTROL BOARD

| 211.5930 | Sensor  |
|----------|---|
| 211.5950 | Set of Safety Relief Valves                         |
| 211.5970 | Sheet Basecoat                                      |
| 211.5980 | Sheet-Fed   |
| 211.5990 | Shotblasting  |
| 211.6010 | Side-Seam Spray Coat                                |
| 211.6025 | Single Unit Operation                               |
| 211.6030 | Smoke   |
| 211.6050 | Smokeless Flare                                     |
| 211.6060 | Soft Coat   |
| 211.6070 | Solvent   |
| 211.6090 | Solvent Cleaning                                    |
| 211.6110 | Solvent Recovery System                             |
| 211.6130 | Source  |
| 211.6140 | Specialty Coatings                                  |
| 211.6145 | Specialty Coatings for Motor Vehicles               |
| 211.6150 | Specialty High Gloss Catalyzed Coating              |
| 211.6170 | Specialty Leather                                   |
| 211.6190 | Specialty Soybean Crushing Source                   |
| 211.6210 | Splash Loading                                      |
| 211.6230 | Stack   |
| 211.6250 | Stain Coating                                       |
| 211.6270 | Standard Conditions                                 |
| 211.6290 | Standard Cubic Foot (scf)                           |
| 211.6310 | Start-Up  |
| 211.6330 | Stationary Emission Source                          |
| 211.6350 | Stationary Emission Unit                            |
| 211.6355 | Stationary Gas Turbine                              |
| 211.6360 | Stationary Reciprocating Internal Combustion Engine |
| 211.6370 | Stationary Source                                   |
| 211.6390 | Stationary Storage Tank                             |
| 211.6400 | Stencil Coat  |
| 211.6410 | Storage Tank or Storage Vessel                      |
| 211.6420 | Strippable Spray Booth Coating                      |
| 211.6430 | Styrene Devolatilizer Unit                          |
| 211.6450 | Styrene Recovery Unit                               |
| 211.6470 | Submerged Loading Pipe                              |
| 211.6490 | Substrate   |
| 211.6510 | Sulfuric Acid Mist                                  |
| 211.6530 | Surface Condenser                                   |
|          |   |

# POLLUTION CONTROL BOARD

| 211.6540 | Surface Preparation Materials                                      |
|----------|--|
| 211.6550 | Synthetic Organic Chemical or Polymer Manufacturing Plant          |
| 211.6570 | Tablet Coating Operation   |
| 211.6580 | Texture Coat   |
| 211.6590 | Thirty-Day Rolling Average   |
| 211.6610 | Three-Piece Can  |
| 211.6620 | Three or Four Stage Coating System                                 |
| 211.6630 | Through-the-Valve Fill   |
| 211.6650 | Tooling Resin  |
| 211.6670 | Topcoat  |
| 211.6690 | Topcoat Operation  |
| 211.6695 | Topcoat System   |
| 211.6710 | Touch-Up   |
| 211.6720 | Touch-Up Coating   |
| 211.6730 | Transfer Efficiency  |
| 211.6750 | Tread End Cementing  |
| 211.6770 | True Vapor Pressure  |
| 211.6790 | Turnaround   |
| 211.6810 | Two-Piece Can  |
| 211.6830 | Under-the-Cup Fill   |
| 211.6850 | Undertread Cementing   |
| 211.6860 | Uniform Finish Blender   |
| 211.6870 | Unregulated Safety Relief Valve                                    |
| 211.6880 | Vacuum Metallizing   |
| 211.6890 | Vacuum Producing System  |
| 211.6910 | Vacuum Service   |
| 211.6930 | Valves Not Externally Regulated                                    |
| 211.6950 | Vapor Balance System   |
| 211.6970 | Vapor Collection System  |
| 211.6990 | Vapor Control System   |
| 211.7010 | Vapor-Mounted Primary Seal   |
| 211.7030 | Vapor Recovery System  |
| 211.7050 | Vapor-Suppressed Polyester Resin                                   |
| 211.7070 | Vinyl Coating  |
| 211.7090 | Vinyl Coating Line   |
| 211.7110 | Volatile Organic Liquid (VOL)                                      |
| 211.7130 | Volatile Organic Material Content (VOMC)                           |
| 211.7150 | Volatile Organic Material (VOM) or Volatile Organic Compound (VOC) |
| 211.7170 | Volatile Petroleum Liquid  |
| 211.7190 | Wash Coat  |
|          |  |

#### POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENTS

| Washoff Operations                     |
|--|
| Wastewater (Oil/Water) Separator       |
| Weak Nitric Acid Manufacturing Process |
| Web                                    |
| Wholesale Purchase - Consumer          |
| Wood Furniture                         |
| Wood Furniture Coating                 |
| Wood Furniture Coating Line            |
| Woodworking                            |
| Yeast Percentage                       |
|  |
| IX A Rule into Section Table           |
| IX B Section into Rule Table           |
|  |

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 III. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 III. 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 III. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 III. 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 III. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 III. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 III. 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;

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENTS

| amended in R95-2 at 19 III. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 III.     |
|---|
| Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 III. Reg. 7590, effective May      |
| 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-     |
| 17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695,          |
| effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997;          |
| amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill.  |
| Reg.11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 128, effective December      |
| 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, 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 III. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 III. Reg. 14254,      |
| effective September 25, 2007; amended in R08-06 at 32 Ill. Reg. 1387, effective January 16,       |
| 2008; amended in R08-19 at 33 Ill. Reg, effective   |
|   |
| 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. Reg, | 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. R | eg, 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 performed in accordance with procedures provided by the manufacturer or by a trained technician.

| (Source: Added at 33 Ill. Reg, effective | ve |
|--|----|
|--|----|

# Section 211.1435 Container Glass

# POLLUTION CONTROL BOARD

# NOTICE OF PROPOSED AMENDMENTS

| "Container glass" means, for purposes of Part 217, glass made of soda-lime recipe, clear or  |
|--|
| colored, which is pressed or blown, or both, into bottles, jars, ampoules, and other products listed   |
| in Standard Industrial Classification 3221.  |
| (Source: Added at 33 Ill. Reg, effective)  |
|  |
| <u>Section 211.2355</u> <u>Flare</u>   |
| "Flare" means an open combustor without enclosure or shroud.   |
| (Source: Added at 33 Ill. Reg, effective)  |
| Section 211.2357 Flat Glass  |
| "Flat glass" means, for purposes of Part 217, glass made of soda-lime recipe and produced into continuous flat sheets and other products listed in Standard Industrial Classification 3211.  |
| (Source: Added at 33 Ill. Reg, effective)  |
| Section 211.2625 Glass Melting Furnace   |
| "Glass melting furnace" means, for purposes of Part 217, a unit comprising a refractory vessel in which raw materials are charged and melted at high temperature to produce molten glass.  |
| (Source: Added at 33 Ill. Reg, effective)  |
| Section 211.3100 Industrial Boiler   |
| "Industrial boiler" means, for purposes of Part 217, an enclosed vessel in which water is heated and circulated either as hot water or as steam for heating or for power, or both. This term does not include a heat recovery steam generator that captures waste heat from a combustion turbine and boilers serving a generator that has a nameplate capacity greater than 25 MWe and produces electricity for sale, and cogeneration units, if such boilers meet the applicability criteria under Subpart M of Part 217. |
| (Source: Added at 33 Ill. Reg, effective)  |

Section 211.3355 Lime Kiln

# POLLUTION CONTROL BOARD

| NOTICE OF PROPOSED AMENDMENTS   |
|---|
| "Lime kiln" means, for purposes of Part 217, an enclosed combustion device used to calcine lime   |
| mud, which consists primarily of calcium carbonate, into calcium oxide.   |
| (Source: Added at 33 Ill. Reg, effective)   |
| Section 211.3475 Load Shaving Unit  |
| "Load shaving unit" means, for purposes of Part 217, a device used to generate electricity for sale or use during high electric demand days, including but not limited to stationary reciprocating internal combustion engines or turbines. |
| (Source: Added at 33 Ill. Reg, effective)   |
| Section 211.4280 Other Glass  |
| "Other glass" means, for purposes of Part 217, glass that is neither container glass, as that term is   |
| defined in Section 211.1435, nor flat glass, as that term is defined in Section 211.2357.   |
| (Source: Added at 33 Ill. Reg, effective)   |
| Section 211.5195 Process Heater   |
| "Process heater" means, for purposes of Part 217, an enclosed combustion device that burns  |
| gaseous or liquid fuels only and that indirectly transfers heat to a process fluid or a heat transfer   |
| medium other than water. This term does not include pipeline heaters and storage tank heaters   |
| that are primarily meant to maintain fluids at a certain temperature or viscosity.  |
| (Source: Added at 33 Ill. Reg, effective)   |



# POLLUTION CONTROL BOARD

# NOTICE OF PROPOSED AMENDMENTS

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

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

| 3) | Section Numbers: 217.100 217.104 217.121 217.141 217.150 | Proposed Action: Amended Amended Repealed Amended 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   |
|    | 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   |
|    | 217.Appendix H   | New Section   |

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#### POLLUTION CONTROL BOARD

#### 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 (<u>Amendments to 35 Ill. Adm. Code 217</u>, <u>Nitrogen Oxides Emissions</u>, 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<sub>x</sub>) 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 U.S.C. § 7401 et seq.);
- 2. Illinois Environmental Protection Act (415 ILCS 5/1 et seq.);
- 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;

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- 5. http://en.wikipedia.org/wiki/Image:Locomotive fire tube boiler schematic.png;
- 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 NOx 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 NOx Gas-Fired Burner with Air Preheat," Final Report, prepared for California Air Resources Board, November 23, 2000;

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- 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<sub>x</sub>: Control Technologies and Cost Effectiveness for Utility Boilers," prepared by Jim Staudt, Andover Technology Partners, June 1998;
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- 66. California South Coast Rule 2002, Allocations for oxides of Nitrogen (NO<sub>x</sub>) and oxides of Sulfur (SO<sub>x</sub>), 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 proposed rule replace an emergency rule currently in effect? No.
- 8) <u>Does this rulemaking contain an automatic repeal date?</u> No.

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- 9) <u>Does this proposed rule 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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
  - Alternative Control Techniques Document--NO<sub>x</sub> 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 rules pending on this Part? Yes

| Section Numbers: | <u>Proposed Action</u> : | <i>Illinois Register Citation</i> : |
|------------------|--------------------------|-------------------------------------|
| 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 rule does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b) (2004)].
- 12) <u>Time, Place, and Manner in which interested persons may comment on this proposed rulemaking:</u>

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## NOTICE OF PROPOSED AMENDMENTS

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) <u>Initial Regulatory Flexibility Analysis:</u>
  - 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 (30 Ill. Reg. 11906-08).

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

# POLLUTION CONTROL BOARD

# NOTICE OF PROPOSED AMENDMENTS

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

SUBCHAPTER C: EMISSION STANDARDS AND LIMITATIONS FOR STATIONARY SOURCES

# PART 217 NITROGEN OXIDES EMISSIONS

|                | CAMPA A CENTER A A PROMICIONA                                      |
|----------------|--|
|                | SUBPART A: GENERAL PROVISIONS                                      |
| Section        |  |
| 217.100        | Scope and Organization   |
| 217.101        | Measurement Methods  |
| 217.102        | Abbreviations and Units  |
| 217.103        | Definitions  |
| 217.104        | Incorporations by Reference  |
| SU             | BPART B: NEW FUEL COMBUSTION EMISSION SOURCES (Repealed)           |
| Section        | <del></del>  |
| 217.121        | New Emission Sources (Repealed)                                    |
| SUBI           | PART BC: EXISTING FUEL COMBUSTION EMISSION UNITS SOURCES           |
| Section        |  |
| 217.141        | Existing Emission <u>Units</u> Sources in Major Metropolitan Areas |
| ~              | SUBPART C: NO <sub>x</sub> GENERAL REQUIREMENTS                    |
| Section        |  |
| <u>217.150</u> | Applicability  |
| <u>217.152</u> | Compliance Date  |
| <u>217.154</u> | Performance Testing  |
| <u>217.155</u> | Initial Compliance Certification                                   |
| 217.156        | Recordkeeping and Reporting  |

SUBPART D: INDUSTRIAL BOILERS

217.157

217.158

<u>Testing and Monitoring</u> <u>Emissions Averaging Plans</u>

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| Section<br>217.160<br>217.162<br>217.164<br>217.165<br>217.166 | Applicability Exemptions Emissions Limitations Combination of Fuels Methods and Procedures for Combustion Tuning |
|--|--|
|  | SUBPART E: PROCESS HEATERS   |
| Section<br>217.180<br>217.182<br>217.184<br>217.185<br>217.186 | Applicability Exemptions Emissions Limitations Combination of Fuels Methods and Procedures for Combustion Tuning |
|  | SUBPART F: GLASS MELTING FURNANCES   |
| Section<br>217.200<br>217.202<br>217.204                       | Applicability Exemptions Emissions Limitations   |
|  | SUBPART G: CEMENT AND LIME KILNS   |
| Section<br>217.220<br>217.222<br>217.224                       | Applicability Exemptions Emissions Limitations   |
| •  | SUBPART H: IRON AND STEEL AND ALUMINUM MANUFACTURING   |
| Section<br>217.240<br>217.242<br>217.244                       | Applicability Exemptions Emissions Limitations   |
|  | SUBPART K: PROCESS EMISSION SOURCES  |

Section

# POLLUTION CONTROL BOARD

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| 217.301 | Industrial Processes |
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| 217.301 | midustrial Processes |

|   | SUBFART W. ELECTRICAL GENERATING UNITS  |
|---|---|
| Section<br>217.340<br>217.342<br>217.344<br>217.345   | Applicability Exemptions Emissions Limitations Combination of Fuels   |
|   | SUBPART O: CHEMICAL MANUFACTURE   |
| Section 217.381   | Nitric Acid Manufacturing Processes   |
| SU  | BPART Q: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES AND TURBINES  |
| Section<br>217.386<br>217.388<br>217.390<br>217.392<br>217.394<br>217.396<br>Section<br>217.400<br>217.402<br>217.404 | Applicability Control and Maintenance Requirements Emissions Averaging Plans Compliance Testing and Monitoring Recordkeeping and Reporting  SUBPART T: CEMENT KILNS  Applicability Control Requirements Testing |
| 217.406   | Monitoring  |
| 217.408   | Reporting   |
| 217.410   | Recordkeeping   |
|   | SUBPART U: $NO_X$ CONTROL AND TRADING PROGRAM FOR SPECIFIED $NO_X$ GENERATING UNITS   |
| Section   |   |
| 217.450   | Purpose   |
| 217.452   | Severability  |

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| 217.454 | Applicability  |
|---------|--|
| 217.456 | Compliance Requirements  |
| 217.458 | Permitting Requirements  |
| 217.460 | Subpart U NO <sub>x</sub> Trading Budget   |
| 217.462 | Methodology for Obtaining NO <sub>X</sub> Allocations                                |
| 217.464 | Methodology for Determining NO <sub>X</sub> Allowances from the New Source Set-Aside |
| 217.466 | NO <sub>X</sub> Allocations Procedure for Subpart U Budget Units                     |
| 217.468 | New Source Set-Asides for "New" Budget Units   |
| 217.470 | Early Reduction Credits (ERCs) for Budget Units                                      |
| 217.472 | Low-Emitter Requirements   |
| 217.474 | Opt-In Units   |
| 217.476 | Opt-In Process   |
| 217.478 | Opt-In Budget Units: Withdrawal from NO <sub>X</sub> Trading Program                 |
| 217.480 | Opt-In Units: Change in Regulatory Status  |
| 217.482 | Allowance Allocations to Opt-In Budget Units   |
|         | SUBPART V: ELECTRIC POWER GENERATION   |
| Section |  |
| 217.521 | Lake of Egypt Power Plant  |
| 217.700 | Purpose  |
| 217.702 | Severability   |
| 217.704 | Applicability  |
| 217.706 | Emission Limitations   |
| 217.708 | $NO_X$ Averaging   |
| 217.710 | Monitoring   |
| 217.712 | Reporting and Recordkeeping  |
|         | SUBPART W: NO <sub>x</sub> TRADING PROGRAM FOR ELECTRICAL                            |
|         | GENERATING UNITS   |
| Section |  |
| 217.750 | Purpose  |
| 217.752 | Severability   |
| 217.754 | Applicability  |
| 217.756 | Compliance Requirements  |
| 217.758 | Permitting Requirements  |
| 217.760 | NO <sub>X</sub> Trading Budget   |
| 217.762 | Methodology for Calculating NO <sub>X</sub> Allocations for Budget Electrical        |

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|            | Gener     | ating Units (EGUs)  |  |  |
|------------|-----------|---|--|--|
| 217.764    | $NO_X$    | Allocations for Budget EGUs   |  |  |
| 217.768    | New S     | New Source Set-Asides for "New" Budget EGUs   |  |  |
| 217.770    |           | Early Reduction Credits for Budget EGUs   |  |  |
| 217.774    | Opt-Ir    | ı Units   |  |  |
| 217.776    | Opt-Ir    | n Process   |  |  |
| 217.778    | Budge     | et Opt-In Units: Withdrawal from NO <sub>X</sub> Trading Program                            |  |  |
| 217.780    | Opt-Ir    | Units: Change in Regulatory Status  |  |  |
| 217.782    |           | ance Allocations to Budget Opt-In Units   |  |  |
| SU         | BPART     | X: VOLUNTARY NO <sub>X</sub> EMISSIONS REDUCTION PROGRAM                                    |  |  |
| Section    |           |   |  |  |
| 217.800    | Purpo     | se  |  |  |
| 217.805    | Emiss     | ion Unit Eligibility  |  |  |
| 217.810    |           | pation Requirements   |  |  |
| 217.815    | $NO_X$ I  | Emission Reductions and the Subpart X NO <sub>X</sub> Trading Budget                        |  |  |
| 217.820    | Baseli    | Baseline Emissions Determination  |  |  |
| 217 825    | Calcul    | Calculation of Creditable NO <sub>X</sub> Emission Reductions                               |  |  |
| 217.830    | Limita    | Limitations on NO <sub>X</sub> Emission Reductions  |  |  |
| 217.835    | $NO_X$ I  | NO <sub>X</sub> Emission Reduction Proposal   |  |  |
| 217.840    | Agenc     | Agency Action   |  |  |
| 217.845    | Emiss     | Emissions Determination Methods   |  |  |
| 217.850    |           | Emissions Monitoring  |  |  |
| 217.855    | Reporting |   |  |  |
| 217.860    |           | dkeeping  |  |  |
| 217.865    | Enforc    | cement  |  |  |
| 217.APPEN  | DIX A     | Rule into Section Table   |  |  |
| 217.APPEN  | DIX B     | Section into Rule Table   |  |  |
| 217.APPEN  | DIX C     | Compliance Dates  |  |  |
| 217.APPEN  | DIX D     | Non-Electrical Generating Units   |  |  |
| 217.APPEN  | DIX E     | Large Non-Electrical Generating Units   |  |  |
| 217.APPEN  |           | Allowances for Electrical Generating Units  |  |  |
| 217.APPEN  | DIX G     | Existing Reciprocating Internal Combustion Engines Affected by the NO <sub>x</sub> SIP Call |  |  |
| 217.APPENI | DIX H     | Compliance Dates for Certain Emissions Units at Petroleum Refineries                        |  |  |

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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].

| 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 III. 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 III. Reg. 14271, effective September 25, 2007; amended in R08-19 at 33 III. Reg,         |
| effective   |

#### SUBPART A: GENERAL PROVISIONS

# 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 | R III Reg   | effective |
|------------------------|-------------|-----------|
| (Source, Amenaca at 3. | ) III. NGg. | , checuve |

# 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);

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- 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 -- NO<sub>x</sub> 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) Standards of Performance for Stationary Combustion Turbines, 40 CFR 60, Subpart KKKK, 60.4400 (2006); and
- <u>kł</u>) 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--NO<sub>x</sub> 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--NO<sub>x</sub> Emissions from Process Heaters (Revised), EPA-453/R-93-034, U. S. Environmental Protection Agency, Office of

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Air and Radiation, Office of Air Quality Planning and Standards, Research Triangle Park, N. C. 27711, September 1993;

- o) Alternative Control Techniques Document--NO<sub>x</sub> 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) <u>Alternative Control Techniques Document--NO<sub>x</sub> 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.</u>

(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 (NO<sub>X</sub>) 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;
- 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:

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

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

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:

|              | <b>Metric</b>    | <del>English</del> |
|--------------|------------------|--------------------|
| E            | <del>kg/hr</del> | <del>lbs/hr</del>  |
| Q            | MW               | mmbtu/hr           |
| A            | 0.023            | 0.003              |
| ₿            | 0.023            | 0.003              |
| $\mathbf{c}$ | 0.053            | 0.007              |

(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 <u>unit source</u> 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 <u>units</u> sources burning simultaneously any combination of solid, liquid and gaseous fuel, the allowable emission rate shall be determined by the following equation:

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

Where:

E = allowable nitrogen oxides emissions

Q = actual heat input

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:

|   | Metric | ` English |
|---|--------|-----------|
| E | kg/hr  | lbs/hr    |
| Q | MW     | mmbtu/hr  |
| A | 0.023  | 0.003     |
| В | 0.023  | 0.003     |
| C | 0.068  | 0.009     |

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

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# SUBPART C: NOx GENERAL REQUIREMENTS

# Section 217.150 Applicability

a) The provisions of this Subpart and Subparts D, E, F, G, H, and M of this Part apply to the following:

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- All sources that are located in either one of the following areas and that emit or have the potential to emit NO<sub>x</sub> in an amount equal to or greater than 100 tons per year:
  - A) 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
  - B) 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
- 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) of this Section that emits NO<sub>x</sub> in an amount equal to or greater than 15 tons per year and equal to or greater than five tons per ozone season.
- 3) For purposes of this Section, "potential to emit" means the quantity of NO<sub>x</sub> 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 NO<sub>x</sub> 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, 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 Part.
- 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 NO<sub>x</sub> from existing emission units for purposes of netting or emission offsets, such NO<sub>x</sub> decreases remain creditable notwithstanding any requirements

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that may apply to the existing emission units pursuant to this Subpart and Subpart D, E, F, G, H, or M of this Part.

e) The owner or operator of an emission unit that is subject to this Subpart and Subpart D, E, F, G, H, or M of this Part must operate such unit in a manner consistent with good air pollution control practice to minimize NO<sub>x</sub> 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, and M by an owner or operator of an emission unit that is subject to Subpart D, E, F, G, H, or M is required beginning January 1, 2012.
- Notwithstanding subsection (a) of this Section, compliance with the requirements of Subpart F of this Part by an owner or operator of an emission unit subject to Subpart F 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.
- c) Notwithstanding subsection (a) of this Section, the owner or operator of emission units subject to Subpart D or E of this Part and located at a petroleum refinery must comply with the requirements of this Subpart and Subpart D or E 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 D or E 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 D or E 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 D or E of this Part, as applicable, by the dates set forth in Appendix H.

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| (Source: Added at 33 I | 11. Reg | _, effective | ) |
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# **Section 217.154 Performance Testing**

- a) Performance testing of NO<sub>x</sub> emissions for emission units constructed on or before July 1, 2011, and subject to Subpart D, E, F, G, or H of this Part must be conducted in accordance with Section 217.157 of this Subpart. This subsection does not apply to owners and operators of emission units demonstrating compliance through a continuous emissions monitoring system.
- b) Performance testing of NO<sub>x</sub> 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 of this Part must be conducted within 60 days of 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. This subsection does not apply to owners and operators of emission units demonstrating compliance through a continuous emissions monitoring system.
- 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 at least 30 days in writing 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.

| (Source: Added at 33 Ill. Reg | , effective) | į |
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# Section 217.155 Initial Compliance Certification

- a) By the applicable compliance date set forth under Section 217.152 of this Subpart, an owner or operator of an emission unit subject to Subpart D, E, F, G, or H 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, 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 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, an owner or operator of an emission unit subject to Subpart D, E, F, G, H, 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, 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 at 33 III. Reg effective | ource: Added at 33 Ill. Reg. | , effective |  |
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# Section 217.156 Recordkeeping and Reporting

- a) The owner or operator of an emission unit subject to Subpart D, E, F, G, H, 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 D, E, F, G, H, 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.

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- 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, or M of this Part must maintain records that demonstrate compliance with the requirements of Subpart D, E, F, G, H, or M, as applicable, that include the following:
  - 1) Identification, type (e.g., gas-fired), and location of each unit.
  - 2) Calendar date of the record.
  - <u>Monthly, seasonal, and annual operating hours.</u>
  - 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 NO<sub>x</sub> 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, 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  $NO_x$  that is performed on the unit.
  - 9) A log for the NO<sub>x</sub> 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.

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- 11) If complying with the emissions averaging plan provisions of Section 217.158 of this Subpart, 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.
- <u>The owner or operator of an industrial boiler subject to Subpart D of this Part</u> must maintain records in order to demonstrate compliance with the combustion tuning requirements under Section 217.166 of this Part.
- d) The owner or operator of a process heater subject to Subpart E of this Part must maintain records in order to demonstrate compliance with the combustion tuning requirements under Section 217.186 of this Part.
- e) The owner or operator of an emission unit subject to Subpart D, E, F, G, H, or M of this Part must maintain records in order to demonstrate compliance with the testing and monitoring requirements under Section 217.157 of this Subpart.
- f) The owner or operator of an emission unit subject to Subpart D, E, F, G, 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 NO<sub>x</sub> 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.

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- The owner or operator of an emission unit subject to Subpart D, E, F, G, H, or M of this Part must notify the Agency of any exceedances of an applicable emissions limitation of Subpart D, E, F, G, H, or 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.
- Mithin 30 days of 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, 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 NO<sub>X</sub> emissions for the ozone season and for the annual control period;
  - 2) The total mass of actual NO<sub>X</sub> emissions for the ozone season and annual control period for each unit included in the averaging plan;
  - 3) The calculations that demonstrate that the total mass of actual  $NO_X$  emissions are less than the total mass of allowable  $NO_X$  emissions using equations in Section 217.158(f) of this Subpart; and
  - 4) The information required to determine the total mass of actual  $NO_{\underline{X}}$  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) <u>Information identifying and explaining the times and dates when</u> continuous emissions monitoring for NO<sub>x</sub> was not in operation, other than

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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  | III Reg    | , effective | ` |
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# Section 217.157 Testing and Monitoring

- a) Industrial Boilers and Process Heaters
  - The owner or operator of an industrial boiler subject to Subpart D 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 NO<sub>x</sub> emissions discharged into the atmosphere in accordance with 40 CFR Part 75, as incorporated by reference in Section 217.104 of this Part.
  - The owner or operator of an industrial boiler subject to Subpart D 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 NO<sub>x</sub> emissions discharged into the atmosphere in accordance with 40 CFR Part 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 of this Part.
  - The owner or operator of a process heater subject to Subpart E 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 NO<sub>x</sub> emissions discharged

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into the atmosphere must monitor emissions of NO<sub>x</sub> discharged into the atmosphere in accordance with 40 CFR Part 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 of this Part.

- 4) If demonstrating compliance through an emissions averaging plan, the owner or operator of an industrial boiler subject to Subpart D of this Part, or a process heater subject to Subpart E 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 217.154 of this Subpart.
  - 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 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, 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<sub>x</sub> 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

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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 D of this Part, or a process heater subject to Subpart E 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, Subpart A, and Appendix B,

  Performance Specifications 2 and 3, and Appendix 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.
- Notwithstanding subsection (a)(2) of this Section, the owner or operator of an auxiliary boiler subject to Subpart D 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<sub>x</sub> 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 F of this Part, cement kiln or lime kiln subject to Subpart G of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart H of this Part, or aluminum reverberatory or crucible furnace subject to Subpart H of this Part that has the potential to emit NO<sub>x</sub> 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

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measurement of NO<sub>x</sub> emissions discharged into the atmosphere in accordance with 40 CFR Part 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 of this Part.

- An owner or operator of a glass melting furnace subject to Subpart F of this Part, cement kiln or lime kiln subject to Subpart G of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart H of this Part, or aluminum reverberatory or crucible furnace subject to Subpart H of this Part that has the potential to emit NO<sub>x</sub> 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.
- An owner or operator of a glass melting furnace subject to Subpart F of this Part, cement kiln or lime kiln subject to Subpart G of this Part, iron and steel reheat, annealing, galvanizing furnace subject to Subpart H of this Part, or aluminum reverberatory or crucible furnace subject to Subpart H of this Part that has the potential to emit NO<sub>x</sub> 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 F of this Part, cement kilns or lime kilns subject to Subpart G of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart H of this Part, or aluminum reverberatory or crucible furnaces subject to Subpart H 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 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 receipt of a notice to test from the Agency or USEPA.

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- 4) 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, 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 Part 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<sub>x</sub> 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.
- <u>5</u>) 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 F of this Part, cement kiln or lime kiln subject to Subpart G of this Part, iron and steel reheat, annealing, or galvanizing furnace subject to Subpart H of this Part, or aluminum reverberatory or crucible furnace subject to Subpart H of this Part that has the potential to emit NO<sub>x</sub> 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, Subpart A, and Appendix B, Performance Specifications 2 and 3, and Appendix 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.

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- 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 NO<sub>x</sub> emissions discharged into the atmosphere in accordance with 40 CFR Part 96, Subpart H.
- d) Common Stacks. If two or more emission units subject to Subpart D, E, F, G, H, 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 D, E, F, G, H, M, or 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:
  - 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, 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.

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- 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.
- 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 NO<sub>x</sub> emissions discharged into the atmosphere in accordance with the requirements of 40 CFR Part 60, Subpart A, and Appendix 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 33 Ill. Reg. , e | effective ) |
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# 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, 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.

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- 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, 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.
- 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 NO<sub>x</sub> emissions on an annual basis than the actual NO<sub>x</sub> 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 217.342, of this Part, as applicable.
  - C) Units that are required to meet emission limits or control requirements for NO<sub>x</sub> 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:

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- 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).
- 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 of such occurrence, an updated emissions averaging plan; or
  - If a unit that was exempt from the requirements of Subpart D, E, F, G, H, 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 of the unit no longer qualifying for the exemption.

# e) An owner or operator must:

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, and the actual hours of operation for the applicable averaging plan period; and

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- 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  $NO_{\underline{X}}$  emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable  $NO_{\underline{X}}$  emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

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

 $\underline{\underline{N_{act}}} = \underbrace{\sum_{i=1}^{n} \sum_{j=1}^{k} EM_{act(i,j)}}_{\sum_{i=1}^{n} \sum_{j=1}^{k} EM_{all(i,j)}}$ Total sum of the actual NO<sub>X</sub> mass emissions from units included in the averaging plan for each fuel used (tons per ozone season and year). Total sum of the allowable NO<sub>X</sub> mass emissions from units  $N_{all}$ included in the averaging plan for each fuel used (tons per ozone season and year). Total mass of actual NO<sub>X</sub> emissions in tons for a unit as  $EM_{act(i)} =$ determined in subsection (f)(1) of this Section. Subscript denoting an individual unit. Subscript denoting the fuel type used. Number of different fuel types. Number of different units in the averaging plan. Total mass of allowable NO<sub>x</sub> emissions in tons for a unit as  $EM_{all(i)} =$ determined in subsection (f)(2) of this Section.

For each unit in the averaging plan, and each fuel used by such unit, determineactual and allowable NO<sub>X</sub> emissions using the following equations:

1) Actual emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu,

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

When emission limits are prescribed in 1b/ton of processed product,

 $\underline{EM}_{act(i)}$  =  $\underline{E}_{act(i)} \times P_i/2000$ 

2) Allowable emissions must be determined as follows:

When emission limits are prescribed in lb/mmBtu,

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

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

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

Where:

 $\underline{EM}_{act(i)} = \underline{Total \ mass \ of \ actual \ NO_{\underline{X}} \ emissions \ in \ tons \ for \ a}}$  unit.

 $\underline{EM_{all(i)}} = \underline{Total \text{ mass of allowable NO}_{\underline{X}} \text{ emissions in tons for}}$ 

 $\underline{E}_{act}$  = Actual NO<sub>X</sub> emission rate (lbs/mmBtu or lbs/ton of product) as determined by a performance test, continuous emissions monitoring system, or an alternative method approved by the Agency.

E<sub>all</sub> = Allowable NO<sub>X</sub> 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 D of this Part, or process heater subject to Subpart E 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

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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, or an uncontrolled NOx emission rate as determined by an alternative method approved by the Agency will be used.

- <u>H</u> = <u>Heat input (mmBtu/ozone season or mmBtu/year)</u> <u>calculated from fuel flow meter and the heating</u> <u>value of the fuel used.</u>
- P = weight in tons of processed product.
- 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, the testing and monitoring requirements under Section 217.394 of Subpart Q of this Part, and the recordkeeping and reporting requirements under Section 217.396 of Subpart Q of this Part.
- 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 NO<sub>x</sub> pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance turnaround.
- The owner or operator of an emission unit that combusts a combination of coke oven gas and other gaseous fuels and 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

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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 NO<sub>x</sub> pollution control equipment, if any, continues to operate on all other emission units operating during the maintenance period..

| (Sour        | rce: Added at 33 Ill. Reg, effective)  |
|--------------|--|
|              | SUBPART D: INDUSTRIAL BOILERS  |
| Section 217. | 160 Applicability  |
| <u>a)</u>    | The provisions of Subpart C of this Part and this Subpart apply to all industrial boilers located at sources subject to this Subpart pursuant to Section 217.150 of this Part, except as provided in subsections (b) and (c) of this Section.  |
| · <u>b)</u>  | 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, if such boilers or cogeneration units are subject to the CAIR NO <sub>x</sub> Trading Programs under Subpart D or E of Part 225. |
| <u>c)</u>    | 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 $NO_x$ as provided for in an enforceable order.             |
| (Sour        | rce: Added at 33 Ill. Reg, effective)  |
| Section 217. | 162 Exemptions   |
|              | ling Section 217.160 of this Subpart, the provisions of this Subpart do not apply to boiler operating under a federally enforceable limit of NO <sub>x</sub> emissions from such   |

# Section 217.164 Emissions Limitations

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

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

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On and after January 1, 2012, no person shall cause or allow emissions of  $NO_x$  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.

|           | <u>Fuel</u>                              | Rated     | sion Unit Type and<br>I Heat Input Capacity<br>Btu/hr)                  | NO <sub>x</sub> Emissions Limitation (lb/mmBtu) or Requirement |
|-----------|--|-----------|---|--|
| <u>a)</u> | Natural Gas<br>or Other Gaseous<br>Fuels | 1)        | Industrial boiler greater than 100                                      | 0.08   |
|           |  | <u>2)</u> | Industrial boiler<br>less than or equal to 100                          | Combustion tuning  |
| <u>b)</u> | Distillate Fuel Oil                      | <u>1)</u> | Industrial boiler<br>greater than 100                                   | <u>0.10</u>  |
|           |  | <u>2)</u> | Industrial boiler less than or equal to 100                             | Combustion tuning  |
| <u>c)</u> | Other Liquid<br>Fuels                    | 1)        | Industrial boiler greater than 100                                      | 0.15   |
|           |  | 2)        | Industrial boiler<br>less than or equal to 100                          | Combustion tuning  |
| <u>d)</u> | Solid Fuel                               | <u>1)</u> | Industrial boiler greater than 100, circulating fluidized bed combustor | 0.12   |
|           |  | <u>2)</u> | Industrial boiler greater than 250                                      | 0.18   |
|           |  | <u>3)</u> | Industrial boiler   | 0.25   |

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greater than 100 but less than or equal to 250

4) <u>Industrial boiler</u> <u>Less than or equal to 100</u> Combustion tuning

e) For an industrial boiler combusting a combination of natural gas, coke oven gas, and blast furnace gas, the NO<sub>x</sub> emissions limitation shall be calculated using the following equation:

NO<sub>x</sub> emissions limitation for period in lb/MMBtu= (NOx<sub>NG</sub> \* BTU<sub>NG</sub> + NOx<sub>COG</sub> \* BTU<sub>COG</sub> + NOx<sub>BFG</sub> \* BTU<sub>BFG</sub>) /(BTU<sub>NG</sub> + BTU<sub>COG</sub> + BTU<sub>BFG</sub>)

Where:

 $NOx_{NG} = 0.084 \text{ lb/MMBtu for natural gas}$ 

<u>BTU<sub>NG</sub></u> = the heat input of natural gas in BTU over that period

 $NOx_{COG} = 0.144 \text{ lb/MMBtu for coke oven gas}$ 

BTU<sub>COG</sub> = the heat input of coke oven gas in BTU over that period

 $NOx_{BFG} = 0.0288$  lb/MMBtu for blast furnace gas

BTU<sub>BFG</sub> = the heat input of blast furnace gas in BTU 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.

| (Source: Added at 33 III. 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

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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:

| <u>1)</u>   | The date the combustion tuning was performed;  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| The name, title, and affiliation of the person who performed the combustion tuning; |  |  |  |  |  |  |  |
| <u>3)</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; |  |  |  |  |  |  |
| <u>4)</u>   | 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>5)</u>   | Operating parameters recorded at the start and at conclusion of combustion tuning.   |  |  |  |  |  |  |
| (Source: Adde   | ed at 33 Ill. Reg, effective)  |  |  |  |  |  |  |
|   | SUBPART E: PROCESS HEATERS   |  |  |  |  |  |  |
| Section 217.180 App   | <u>plicability</u>   |  |  |  |  |  |  |
|   | spart C of this Part and this Subpart apply to all process heaters located at Subpart pursuant to Section 217.150 of this Part.  |  |  |  |  |  |  |
| (Source: Added at 33 Ill. Reg, effective)   |  |  |  |  |  |  |  |
| Section 217.182 Exe   | mptions  |  |  |  |  |  |  |
|   | ion 217.180 of this Subpart, the provisions of this Subpart do not apply to a ng under a federally enforceable limit of NO <sub>x</sub> emissions from such heater to                  |  |  |  |  |  |  |
|   | rear and less than five tons per ozone season.   |  |  |  |  |  |  |
| (Source: Adde   | d at 33 Ill. Reg. , effective )  |  |  |  |  |  |  |

# Section 217.184 Emissions Limitations

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On and after January 1, 2012, no person shall cause or allow emissions of  $NO_x$  into the On and after January 1, 2012, no person shall cause or allow emissions of  $NO_x$  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.

| <u>Fuel</u> |  | Rated     | sion Unit Type and<br>Heat Input Capacity<br>Btu/hr) | NO <sub>x</sub> Emissions Limitation (lb/mmBtu) or Requirement |
|-------------|--|-----------|--|--|
| <u>a)</u>   | Natural Gas<br>or Other Gaseous<br>Fuels | 1)        | Process heater greater than 100                      | 0.08   |
|             | 1 4010                                   | <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 draft    | 0.15   |
|             |  | <u>3)</u> | Process heater less than or equal to 100             | Combustion tuning  |
| <u>c)</u>   | Other Liquid<br>Fuels                    | 1)        | Process heater greater than 100, natural draft       | 0.05   |
|             |  | <u>2)</u> | Process heater greater than 100, mechanical draft    | 0.08   |
|             |  | <u>3)</u> | Process heater less than or equal to 100             | Combustion tuning  |

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| (Source: Add  | ed at 33 Ill. Reg, effective)   |
|---|---|
| Section 217.185 Con   | mbination of Fuels  |
| combination of fuels  | or of a process heater subject to this Subpart and operated with any must comply with a heat input weighted average emissions limitation to nce with Section 217.184 of this Subpart.   |
| (Source: Adde   | ed at 33 Ill. Reg, effective)   |
| Section 217.186 Me  | thods and Procedures for Combustion Tuning  |
| Section 217.184 of the annually. The combust contractor who has neaters firing the fuel | or of a process heater subject to the combustion tuning requirements of his Subpart must have combustion tuning performed on the heater at least astion tuning must be performed by an employee of the owner or operator or successfully completed a training course on the combustion tuning of or fuels that are fired in the heater. The owner or operator must maintain that must be made available to the Agency upon request: |
| <u>1)</u>   | The date the combustion tuning was performed;   |
| <u>2)</u>   | The name, title, and affiliation of the person who performed the combustion tuning;   |
| <u>3)</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;  |
| <u>4)</u>   | 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>5)</u>   | Operating parameters recorded at the start and at conclusion of combustion tuning.  |
| (Source: Adde   | ed at 33 Ill. Reg, effective)   |
|   |   |

SUBPART F: GLASS MELTING FURNACES

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# Section 217.200 Applicability

| The p  | rovisions | of Sub   | part C | of this | s Part | and this | Subp    | art app | ly to       | all | glass | melting  | g furna | ices |
|--------|-----------|----------|--------|---------|--------|----------|---------|---------|-------------|-----|-------|----------|---------|------|
| locate | d at sour | ces subj | ect to | this S  | ubpart | pursua   | nt to S | Section | <u>217.</u> | 150 | of th | is Part. |         |      |

| (Source: Added a                       | at 33 Ill. Reg. | , effective | ` |
|--|-----------------|-------------|---|
| (~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~ ~~,          | ,           |   |

# **Section 217.202 Exemptions**

Notwithstanding Section 217.200 of this Subpart, the provisions of this Subpart do not apply to a glass melting furnace operating under a federally enforceable limit of  $NO_x$  emissions from such furnace to less than 15 tons per year and less than five tons per ozone season.

| Source: Adde | d at 33 Ill. Re | g. , effective | ` |
|--------------|-----------------|----------------|---|
|              |                 |                |   |

# **Section 217.204 Emissions Limitations**

a) On and after January 1, 2012, no person shall cause or allow emissions of NO<sub>x</sub> 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>Product</u>  | Emission Unit Type    | Emissions Limitation (lb/ton glass produced) |
|-----------|-----------------|-----------------------|--|
| <u>1)</u> | Container Glass | Glass melting furnace | 5.0  |
| <u>2)</u> | Flat Glass      | Glass melting furnace | <u>7.9</u>                                   |
| <u>3)</u> | Other Glass     | Glass melting furnace | 11.0   |

 $NO_{v}$ 

b) The emissions limitations under this Section do not apply during glass melting furnace startup (not to exceed 70 days) or idling (operation at less than 35% of furnace capacity). For the purposes of demonstrating seasonal and annual

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|  | compliance, the emissions limitation during such periods shall be calculated as follows: |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  | NOx emissions limitation (lb/day) = (ANL) / (PPC)  |  |  |  |  |  |
| Where: ANL = The applicable NOx emissions limitation under this  Section in pounds per ton of glass produced  PPC = Permitted production capacity in tons of glass produced  day |  |  |  |  |  |  |
|  | (Source  | e: Added at 33 Ill. Reg, effective)  |  |  |  |  |
|  |  | SUBPART G: CEMENT AND LIME KILNS   |  |  |  |  |
| <u>Sectio</u>  | n 217.2  | 20 Applicability   |  |  |  |  |
|  | <u>a)</u>  | Notwithstanding Subpart T of this Part, the provisions of Subpart C of this Part and this Subpart apply to all cement kilns located at sources subject to this Subpart pursuant to Section 217.150 of this Part. |  |  |  |  |
|  | <u>b)</u>  | The provisions of Subpart C of this Part and this Subpart apply to all lime kilns  |  |  |  |  |

located at sources subject to this Subpart pursuant to Section 217.150 of this Part.

# Section 217.222 Exemptions

Notwithstanding Section 217.220 of this Subpart, the provisions of this Subpart do not apply to a cement kiln or lime kiln operating under a federally enforceable limit of NO<sub>x</sub> emissions from such kiln to less than 15 tons per year and less than five tons per ozone season.

| ( | Source: A | Added at 33 | III. Reg. | , effective |  |
|---|-----------|-------------|-----------|-------------|--|
| • | Domet.    | raaca at 55 | m. reeg.  | , 011001110 |  |

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

# Section 217.224 Emissions Limitations

On and after January 1, 2012, no person shall cause or allow emissions of NO<sub>x</sub> <u>a)</u> into the atmosphere from any cement kiln to exceed the following limitations. Compliance must be demonstrated with the applicable emissions limitation on an ozone season and annual basis.

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|           |                       | Emission Unit Type   | NO <sub>x</sub> Emissions Limitation (lb/ton clinker produced) |
|-----------|-----------------------|--|--|
| 1)        |                       | Long dry kiln  | 5.1  |
| <u>2)</u> |                       | Short dry kiln   | <u>5.1</u>   |
| <u>3)</u> |                       | Preheater kiln   | 3.8  |
| <u>4)</u> |                       | Preheater/precalciner kiln   | 2.8  |
| into t    | he atmosphere from an | 2, no person shall cause or allow emissy lime kiln to exceed the following linustrated with the applicable emissions lais. | nitations.   |
|           | <u>Fuel</u>           | Emission Unit Type   | NO <sub>x</sub> Emissions Limitation (lb/ton lime produced)    |
| <u>1)</u> | Gas                   | Rotary kiln  | <u>2.2</u>   |
| <u>2)</u> | Coal                  | Rotary kiln  | 2.5  |
| e: Add    | led at 33 Ill. Reg,   | effective)   |  |

# SUBPART H: IRON AND STEEL AND ALUMINUM MANUFACTURING

# Section 217.240 Applicability

The provisions of Subpart C of this Part and this Subpart apply to all reheat <u>a)</u> furnaces, annealing furnaces, and galvanizing furnaces used in iron and steel

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making located at sources subject to this Subpart pursuant to Section 217.150 of this Part.

b) The provisions of Subpart C 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 217.150 of this Part.

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

# **Section 217.242 Exemptions**

Notwithstanding Section 217.240 of this Subpart, 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 operating under a federally enforceable limit of NO<sub>x</sub> emissions from such furnace to less than 15 tons per year and less than five tons per ozone season.

| /C          | Added at 33 Ill. Res | CC 1.        | \ |
|-------------|----------------------|--------------|---|
| ( Notifice: | Annen at 33 HL Rec   | z. effective | 1 |
| i Doui cc.  | ruded at 33 m. Res   | i. CHOCLIVO  | , |

# **Section 217.244 Emissions Limitations**

a) On and after January 1, 2012, no person shall cause or allow emissions of NO<sub>x</sub> into the atmosphere from any reheat furnace, annealing furnace, or galvanizing furnace used in iron and steel making to exceed the following limitations.

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

NO.

| <br>          | Emissions  Limitation  Emission Unit Type (lb/mmBtu)      |       |
|---------------|---|-------|
| <br><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 | 0.142 |

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|            | natural gas and coke oven gas     |             |
|------------|-----------------------------------|-------------|
| <u>4)</u>  | Reheat furnace, cold-air          | 0.03        |
| <u>5)</u>  | Annealing furnace, regenerative   | 0.38        |
| <u>6)</u>  | Annealing furnace, recuperative   | <u>0.16</u> |
| <u>7)</u>  | Annealing furnace, cold-air       | 0.07        |
| <u>8)</u>  | Galvanizing furnace, regenerative | <u>0.46</u> |
| <u>9)</u>  | Galvanizing furnace, recuperative | <u>0.16</u> |
| <u>10)</u> | Galvanizing furnace, cold-air     | 0.06        |

b) On and after January 1, 2012, no person shall cause or allow emissions of NO<sub>x</sub> 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    | NO <sub>x</sub> Emissions Limitation (lb/mmBtu) |  |  |  |
|---|-----------------------|---|--|--|--|
| <u>1)</u>                                 | Reverberatory furnace | 0.08  |  |  |  |
| <u>2)</u>                                 | Crucible furnace      | <u>0.16</u>                                     |  |  |  |
| (Source: Added at 33 Ill. Reg, effective) |                       |   |  |  |  |

SUBPART M: ELECTRICAL GENERATING UNITS

# Section 217.340 Applicability

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Notwithstanding Subpart V or W of this Part, the provisions of Subpart C 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.

| (Source: Added at 33 Ill. Reg., effective |
|---|
|---|

# Section 217.342 Exemptions

- a) Notwithstanding Section 217.340 of this Subpart, the provisions of this Subpart and this Subpart do not apply to a fossil fuel-fired stationary boiler operating under a federally enforceable limit of NO<sub>x</sub> emissions from such boiler to less than 15 tons per year and less than five tons per ozone season.
- b) Notwithstanding Section 217.340 of this Subpart, 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 Subpart B through the multipollutant standard under Section 225.233 of Part 225 or the combined pollutant standards under 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  $NO_x$  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.

| <u>Fuel</u> |               | <u>Emis</u> | ssion Unit Type       | NO <sub>x</sub> Emissions Limitation (1b/mmBtu) |
|-------------|---------------|-------------|-----------------------|---|
| <u>a)</u>   | Solid         | Boile       | <u>er</u>             | 0.12  |
| <u>b)</u>   | Natural gas   | Boile       | <u>er</u>             | 0.06  |
| <u>c)</u>   | <u>Liquid</u> | <u>1)</u>   | Boiler that commenced | 0.10  |

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operation before January 1, 2008

| <u>2)</u>                     | Boiler that commenced operation on or after January 1, 2008 | 0.08 |
|-------------------------------|---|------|
| (Source: Added at 33 Ill. Reg | _, effective)   |      |

# 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 of this Subpart.

| (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 |

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| Point | Emission Unit Description                     | Compliance Date   |
|-------|---|-------------------|
| 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 <sup>st</sup> Interreactor Heater, H-2 | December 31, 2012 |
| 0009  | CR-1 3 <sup>rd</sup> Interreactor Heater, H-7 | December 31, 2012 |
| 0091  | CR-3 Charge Heater                            | December 31, 2012 |
| 0092  | CR-3 1 <sup>st</sup> Reheat Heater, H-5       | December 31, 2012 |
| 0082  | Boiler 17                                     | December 31, 2012 |
| 0800  | 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 |

ConocoPhillips Company Wood River Refinery (Facility ID 119090AAA)