

2007

# ILLINOIS

## REGISTER RULES OF GOVERNMENTAL AGENCIES



Volume 31, Issue 41  
October 12, 2007  
Pages 14120-14395

Index Department  
Administrative Code Division  
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<http://www.cyberdriveillinois.com>

Printed on recycled paper

PUBLISHED BY JESSE WHITE • SECRETARY OF STATE



## POLLUTION CONTROL BOARD

## NOTICE OF ADOPTED AMENDMENT

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

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

## POLLUTION CONTROL BOARD

## NOTICE OF ADOPTED AMENDMENT

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

- 15) Summary and Purpose of Amendments: For a more detailed discussion of these amendments, see the Board's September 20, 2007 opinion and order in docket R07-18. These adopted amendments are intended to meet certain obligations of the State of Illinois under the Clean Air Act, 42 U.S.C. § 7401 *et seq.* Specifically, the amendments satisfy Illinois' obligation to submit a State Implementation Plan to address the requirements of Phase II of the United States Environmental Protection Agency's (USEPA's) nitrogen oxides (NO<sub>x</sub>) State Implementation Plan (SIP) call. The NO<sub>x</sub> SIP call required affected states, including Illinois, to regulate NO<sub>x</sub> emissions from large stationary internal combustion engines as required by the federal Clean Air Act (CAA) 69 Fed. Reg. 21604 (April 21, 2004). Specifically, the amendments to Part 211 add new definitions to the Board's air regulations and amend another definition to clarify the substantive amendments found in Part 217, which is also amended in this issue of the *Illinois Register*.
- 16) Information and questions regarding these adopted amendments shall be directed to:

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

312/814-6085

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

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

## POLLUTION CONTROL BOARD

## NOTICE OF ADOPTED AMENDMENT

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE B: AIR POLLUTION  
CHAPTER I: POLLUTION CONTROL BOARD  
SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS  
FOR STATIONARY SOURCESPART 211  
DEFINITIONS AND GENERAL PROVISIONS

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211.APPENDIX A Rule into Section Table

211.APPENDIX B Section into Rule Table

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

**SOURCE:** Adopted as Chapter 2: Air Pollution, Rule 201: Definitions, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R78-3 and 4, 35 PCB 75 and 243, at 3 Ill. Reg. 30, p. 124, effective July 28, 1979; amended in R80-5, at 7 Ill. Reg. 1244, effective January 21, 1983; codified at 7 Ill. Reg. 13590; amended in R82-1 (Docket A) at 10 Ill. Reg. 12624, effective July 7, 1986; amended in R85-21(A) at 11 Ill. Reg. 11747, effective June 29, 1987; amended in R86-34 at 11 Ill. Reg. 12267, effective July 10, 1987; amended in R86-39 at 11 Ill. Reg. 20804, effective December 14, 1987; amended in R82-14 and R86-37 at 12 Ill. Reg. 787, effective December 24, 1987; amended in R86-18 at 12 Ill. Reg. 7284, effective April 8, 1988; amended in R86-10 at 12 Ill. Reg. 7621, effective April 11, 1988; amended in R88-23 at 13 Ill. Reg. 10862, effective June 27, 1989; amended in R89-8 at 13 Ill. Reg. 17457, effective January 1, 1990; amended in R89-16(A) at 14 Ill. Reg. 9141, effective May 23, 1990; amended in R88-30(B) at 15 Ill. Reg. 5223, effective March 28, 1991; amended in R88-14 at 15 Ill. Reg. 7901, effective May 14, 1991; amended in R91-10 at 15 Ill. Reg. 15564, effective October 11, 1991; amended in R91-6 at 15 Ill. Reg. 15673, effective October 14, 1991; amended in R91-22 at 16 Ill. Reg. 7656, effective May 1, 1992; amended in R91-24 at 16 Ill. Reg. 13526, effective August 24, 1992; amended in R93-9 at 17 Ill. Reg. 16504, effective September 27, 1993; amended in R93-11 at 17 Ill. Reg. 21471, effective December 7, 1993; amended in R93-14 at 18 Ill. Reg. 1253, effective January 18, 1994; amended in R94-12 at 18 Ill. Reg. 14962, effective September 21, 1994; amended in R94-14 at 18 Ill. Reg. 15744, effective October 17, 1994; amended in R94-15 at 18 Ill. Reg. 16379, effective October 25, 1994; amended in R94-16 at 18 Ill. Reg.

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## NOTICE OF ADOPTED AMENDMENT

16929, effective November 15, 1994; amended in R94-21, R94-31 and R94-32 at 19 Ill. Reg. 6823, effective May 9, 1995; amended in R94-33 at 19 Ill. Reg. 7344, effective May 22, 1995; amended in R95-2 at 19 Ill. Reg. 11066, effective July 12, 1995; amended in R95-16 at 19 Ill. Reg. 15176, effective October 19, 1995; amended in R96-5 at 20 Ill. Reg. 7590, effective May 22, 1996; amended in R96-16 at 21 Ill. Reg. 2641, effective February 7, 1997; amended in R97-17 at 21 Ill. Reg. 6489, effective May 16, 1997; amended in R97-24 at 21 Ill. Reg. 7695, effective June 9, 1997; amended in R96-17 at 21 Ill. Reg. 7856, effective June 17, 1997; amended in R97-31 at 22 Ill. Reg. 3497, effective February 2, 1998; amended in R98-17 at 22 Ill. Reg. 11405, effective June 22, 1998; amended in R01-9 at 25 Ill. Reg. 108, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4582, effective March 15, 2001; amended in R01-17 at 25 Ill. Reg. 5900, effective April 17, 2001; amended in R05-16 at 29 Ill. Reg. 8181, effective May 23, 2005; amended in R05-11 at 29 Ill. Reg. 8892, effective June 13, 2005; amended in R04-12/20 at 30 Ill. Reg. 9654, effective May 15, 2006; amended in R07-18 at 31 Ill. Reg. 14254, effective September 25, 2007.

## SUBPART B: DEFINITIONS

**Section 211.740 Brakehorsepower (rated-bhp)**

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

(Source: Added at 31 Ill. Reg. 14254, effective September 25, 2007)

**Section 211.1740 Diesel Engine**

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

(Source: Added at 31 Ill. Reg. 14254, effective September 25, 2007)

**Section 211.1920 Emergency or Standby Unit**

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

- a) Supplies power for the source at which it is located but operates only when the normal supply of power has been rendered unavailable by circumstances beyond

## POLLUTION CONTROL BOARD

## NOTICE OF ADOPTED AMENDMENT

the control of the owner or operator of the source and only as necessary to assure the availability of the engine or turbine. An emergency or standby unit may not be operated to supplement a primary power source when the load capacity or rating of the primary power source has been reached or exceeded.

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

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

(Source: Amended at 31 Ill. Reg. 14254, effective September 25, 2007)

**Section 211.3300 Lean-Burn Engine**

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

(Source: Added at 31 Ill. Reg. 14254, effective September 25, 2007)

**Section 211.5640 Rich-Burn Engine**

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

(Source: Added at 31 Ill. Reg. 14254, effective September 25, 2007)

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## NOTICE OF ADOPTED AMENDMENTS

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

<u>Section Numbers</u> :	<u>Adopted Action</u> :
217.101	Amended
217.102	Amended
217.104	Amended
217.386	New Section
217.388	New Section
217.390	New Section
217.392	New Section
217.394	New Section
217.396	New Section
217.APPENDIX G	New Section
- 4) Statutory Authority: Implementing Sections 9, 9.1, 9.9 and 10 and authorized by Sections 27 and 28.5 of the Environmental Protection Act [415 ILCS 5/9, 9.1, 9.9, 10, 27 and 28.5]
- 5) Effective Date of Amendments: September 25, 2007
- 6) Does this rulemaking contain an automatic repeal date? No
- 7) Do these amendments contain incorporations by reference? Yes
- 8) The adopted amendments, including any material incorporated by reference, are on file in the Board's Chicago office at the James R. Thompson Center, 100 W. Randolph, Suite 11-500 and are available for public inspection.
- 10) Notice of Proposal Published in Illinois Register: May 4, 2007; 31 Ill. Reg. 6597
- 10) Has JCAR issued a Statement of Objection to these amendments? No
- 11) Differences between proposal and final version: The Board deleted any proposed language that did not directly apply to the control of No<sub>x</sub> emissions from large stationary reciprocating combustion engines.

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## NOTICE OF ADOPTED AMENDMENTS

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

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

- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements letter issued by JCAR? Yes
- 13) Will these amendments replace any emergency amendments currently in effect? No
- 14) Are there any amendments pending on this Part? Yes

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

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

Specifically, the amendments to Part 217 adopt a new Subpart Q and Appendix G that address the control of NO<sub>x</sub> emissions from stationary reciprocating internal combustion engines, including a number of compliance, reporting, and recordkeeping requirements.

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## NOTICE OF ADOPTED AMENDMENTS

The adopted amendments contain updates to measurement methods and to the materials that are incorporated by reference in Part 217. The applicability section clarifies that the requirements of Subpart Q are applicable to the engines that are listed in Appendix G. The amendments contain specific requirements regarding testing and monitoring that address both initial performance and ongoing testing requirements.

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

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

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

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

312/814-6085

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

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

POLLUTION CONTROL BOARD

NOTICE OF ADOPTED 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

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217.102	Abbreviations and Units
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## NOTICE OF ADOPTED AMENDMENTS

INTERNAL COMBUSTION ENGINES AND TURBINES

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<u>217.388</u>	<u>Control and Maintenance Requirements</u>
<u>217.390</u>	<u>Emissions Averaging Plans</u>
<u>217.392</u>	<u>Compliance</u>
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SPECIFIED NO<sub>x</sub> GENERATING UNITS

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## NOTICE OF ADOPTED AMENDMENTS

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217.700 Purpose  
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217.706 Emission Limitations  
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SUBPART W: NO<sub>x</sub> TRADING PROGRAM FOR  
ELECTRICAL GENERATING UNITS

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Units (EGUs)  
217.764 NO<sub>x</sub> Allocations for Budget EGUs  
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217.770 Early Reduction Credits for Budget EGUs  
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217.778 Budget Opt-In Units: Withdrawal from NO<sub>x</sub> Trading Program  
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## Section

217.800 Purpose

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217.APPENDIX C	Compliance Dates
217.APPENDIX D	Non-Electrical Generating Units
217.APPENDIX E	Large Non-Electrical Generating Units
217.APPENDIX F	Allowances for Electrical Generating Units
217.APPENDIX G	<u>Existing Reciprocating Internal Combustion Engines Affected by the NO<sub>x</sub> SIP Call</u>

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

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. 14271, effective September 25, 2007

## SUBPART A: GENERAL PROVISIONS

**Section 217.101 Measurement Methods**

Measurement of nitrogen oxides must be according to:

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- a) The phenol disulfonic acid ~~procedures method~~, 40 CFR 60, Appendix A, Method 7, as incorporated by reference in Section 217.104(1999);
- b) Continuous emissions monitoring pursuant to 40 CFR 75, as incorporated by reference in Section 217.104(1999); and
- c) Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure), 40 CFR 60, Appendix A, Method 7E, as incorporated by reference in Section 217.104;(1999).
- d) Monitoring with portable monitors pursuant to ASTM D6522-00, as incorporated by reference in Section 217.104; and
- e) How do I conduct the initial and subsequent performance tests (for turbines), regarding NO<sub>x</sub> pursuant to 40 CFR 60.4400, as incorporated by reference in Section 217.104.

(Source: Amended at 31 Ill. Reg. 14271, effective September 25, 2007)

**Section 217.102 Abbreviations and Units**

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

<u>ASTM</u>	<u>American Society for Testing and Materials</u>
<u>Btu/btu</u>	<u>British thermal unit (60°F)</u>
<u>bhp</u>	<u>brake horsepower</u>
<u>CEMS</u>	<u>continuous emissions monitoring system</u>
<u>EGU</u>	<u>Electrical Generating Unit</u>
<u>dscf</u>	<u>dry standard cubic feet</u>
<u>g/bhp-hr</u>	<u>grams per brake horsepower-hour</u>
<u>kg</u>	<u>kilogram</u>
<u>kg/MW-hr</u>	<u>kilograms per megawatt-hour, usually used as an hourly emission rate</u>
<u>lb</u>	<u>pound</u>
<u>NO<sub>x</sub></u>	<u>Nitrogen Oxides</u>
<u>lbs/mmBtu</u>	<u>pounds per million Btu btu, usually used as an hourly emission rate</u>
<u>lbs/mmbtu</u>	<u>rate</u>
<u>Mg</u>	<u>megagram or metric tonne</u>
<u>mm</u>	<u>million</u>

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<u>mmBtu</u>	million British thermal units
<del>mmbtu</del>	
<u>mmBtu/hr</u>	million British thermal units per hour
<del>mmbtu/hr</del>	
MWe	megawatt of electricity
MW	megawatt; one million watts
MW-hr	megawatt-hour
<u>NATS</u>	<u>NO<sub>x</sub> Allowance Tracking System</u>
<u>NO<sub>2</sub></u>	<u>nitrogen dioxide</u>
<u>NO<sub>x</sub></u>	<u>nitrogen oxides</u>
<u>O<sub>2</sub></u>	<u>oxygen</u>
<u>psia</u>	<u>pounds per square inch absolute</u>
peoc	potential electrical output capacity
<u>PTE</u>	<u>potential to emit</u>
ppm	parts per million
ppmv	parts per million by volume
T	English ton
<u>TPY</u>	<u>tons per year</u>

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

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

(Source: Amended at 31 Ill. Reg. 14271, effective September 25, 2007)

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SUBPART Q: STATIONARY RECIPROCATING  
INTERNAL COMBUSTION ENGINES AND TURBINES

Section 217.386 Applicability

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

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

**Section 217.388 Control and Maintenance Requirements**

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

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

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inspection and maintenance in accordance with what is customary for the type of air pollution control equipment, monitoring device, and affected unit.

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

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

**Section 217.390 Emissions Averaging Plans**

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

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- 2) A sample calculation demonstrating compliance using the methodology provided in subsection (f) of this Section for both the ozone season and calendar year.
- c) An owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must be submitted to the Agency by May 1 of the applicable calendar year. If an amended plan is not received by the Agency by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.
- d) Notwithstanding subsection (c) of this Section, an owner or operator, and the buyer, if applicable, must submit an updated emissions averaging plan or plans to the Agency within 60 days if a unit that is listed in an emissions averaging plan is sold or taken out of service.
- e) An owner or operator must:
- 1) Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the Agency pursuant to subsection (b) of this Section; the higher of the monitoring or test data determined pursuant to Section 217.394; and the actual hours of operation for the applicable control period;
  - 2) Notify the Agency by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season; and
  - 3) Submit to the Agency, by January 31 following each calendar year, a compliance report containing the information required by Section 217.396(c)(4).
- f) The total mass of actual NO<sub>x</sub> emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO<sub>x</sub> emissions for those units for both the ozone season and calendar year. The following equation must be used to determine compliance:

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

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Where:

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

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

$\underline{N_{act}}$  = Total sum of the actual NO<sub>x</sub> mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

$\underline{N_{all}}$  = Total sum of the allowable NO<sub>x</sub> mass emissions from units included in the averaging plan for each fuel used (lbs per ozone season and calendar year).

$\underline{EM_{all(i)}}$  = Total mass of allowable NO<sub>x</sub> emissions in lbs for a unit as determined in subsection (g)(2) or (h)(2) of this Section.

$\underline{EM_{act(i)}}$  = Total mass of actual NO<sub>x</sub> emissions in lbs for a unit as determined in subsection (g)(1) or (h)(1) of this Section.

$i$  = Subscript denoting an individual unit and fuel used.

$n$  = Number of different units in the averaging plan.

g) For each unit in the averaging plan, and each fuel used by a unit, determine actual and allowable NO<sub>x</sub> emissions using the following equations, except as provided for in subsection (h) of this Section:

1) Actual emissions must be determined as follows:

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

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

2) Allowable emissions must be determined as follows:

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

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

Where:

- EM<sub>act(i)</sub> ≡ Total mass of actual NO<sub>x</sub> emissions in lbs for a unit, except as provided for in subsections (g)(3) and (g)(5) of this Section.
- EM<sub>all(i)</sub> ≡ Total mass of allowable NO<sub>x</sub> emissions in lbs for a unit, except as provided for in subsection (g)(3) of this Section.
- E<sub>act</sub> ≡ Actual NO<sub>x</sub> emission rate (lbs/mmBtu) calculated according to the above equation.
- E<sub>all</sub> ≡ Allowable NO<sub>x</sub> emission rate (lbs/mmBtu) calculated according to the above equation.
- H ≡ Heat input (mmBtu/ozone season or mmBtu/year) calculated from fuel flow meter and the heating value of the fuel used.
- C<sub>d(act)</sub> ≡ Actual concentration of NO<sub>x</sub> in lb/dscf (ppmv x 1.194 x 10<sup>-7</sup>) on a dry basis for the fuel used. Actual concentration is determined on each of the most recent test runs or monitoring passes performed pursuant to Section 217.394, whichever is higher.
- C<sub>d(all)</sub> ≡ Allowable concentration of NO<sub>x</sub> in lb/dscf (allowable emission limit in ppmv specified in Section 217.388(a), except as provided for in subsection (g)(4), (g)(5), or (g)(6) of this Section, if applicable.
- F<sub>d</sub> ≡ The ratio of the gas volume of the products of combustion to the heat content of the fuel (dscf/mmBtu) as given in the table of F Factors included in 40 CFR 60, appendix A, Method 19 or as determined using 40 CFR 60, appendix A, Method 19.
- %O<sub>2d</sub> ≡ Concentration of oxygen in effluent gas stream measured on a dry basis during each of the applicable tests or monitoring runs used for determining emissions, as represented by a whole number percent, e.g., for 18.7%O<sub>2d</sub>, 18.7 would be used.
- i ≡ Subscript denoting an individual unit and the fuel used.

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- i       ≡ Subscript denoting each test run or monitoring pass for an affected unit for a given fuel.
- m       ≡ The number of test runs or monitoring passes for an affected unit using a given fuel.
- 3)       For a replacement unit that is electric-powered, the allowable NO<sub>x</sub> emissions from the affected unit that was replaced should be used in the averaging calculations and the actual NO<sub>x</sub> emissions for the electric-powered replacement unit (EM<sub>act elec(i)</sub>) are zero. Allowable NO<sub>x</sub> emissions for the electric-powered replacement are calculated using the actual total bhp-hrs generated by the electric-powered replacement unit on an ozone season and on an annual basis multiplied by the allowable NO<sub>x</sub> emission rate in lb/bhp-hr of the replaced unit. The allowable mass of NO<sub>x</sub> emissions from an electric-powered replacement unit (EM<sub>all elec(i)</sub>) must be determined by multiplying the nameplate capacity of the unit by the hours operated during the ozone season or annually and the allowable NO<sub>x</sub> emission rate of the replaced unit (E<sub>all rep</sub>) in lb/mmBtu converted to lb/bhp-hr. For this calculation the following equation should be used:

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

Where:

- EM<sub>all elec(i)</sub>   ≡ Mass of allowable NO<sub>x</sub> emissions from the electric-powered replacement unit in pounds per ozone season or calendar year.
- bhp           ≡ Nameplate capacity of the electric-powered replacement unit in brake horsepower.
- OP           ≡ Operating hours during the ozone season or calendar year.
- F             ≡ Conversion factor of 0.0077 mmBtu/bhp-hr.
- E<sub>all rep(i)</sub>   ≡ Allowable NO<sub>x</sub> emission rate (lbs/mmBtu) of the replaced unit.
- i             ≡ Subscript denoting an individual electric unit and the fuel used.

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- 4) For a replacement unit that is not electric, the allowable NO<sub>x</sub> emissions rate used in the equations set forth in subsection (g)(2) of this Section must be the higher of the actual NO<sub>x</sub> emissions as determined by testing or monitoring data or the applicable uncontrolled NO<sub>x</sub> emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Area Sources, as incorporated by reference in Section 217.104 for the unit that was replaced.
- 5) For a unit that is replaced with purchased power, the allowable NO<sub>x</sub> emissions rate used in the equations set forth in subsection (g)(2) of this Section must be the emissions concentration set forth in Section 217.388(a) or subsection (g)(6) of this Section, when applicable, for the type of unit that was replaced. For owners or operators replacing units with purchased power, the annual hours of operations that must be used are the calendar year hours of operation for the unit that was shut down, averaged over the three-year period prior to the shutdown. The actual NO<sub>x</sub> emissions for the units replaced by purchased power ( $EM_{(i)act}$ ) are zero. These units may be included in any emissions averaging plan for no more than five years beginning with the calendar year that the replaced unit is shut down.
- 6) For non-Appendix G units used in an emissions averaging plan, allowable emissions rate used in the equations set forth in subsection (g)(2) of this Section must be the higher of the actual NO<sub>x</sub> emissions as determined by testing or monitoring data or the applicable uncontrolled NO<sub>x</sub> emissions factor from Compilation of Air Pollutant Emission Factors: AP-42, Volume I: Stationary Point and Areas Sources, as incorporated by reference in Section 217.104.
- h) For units that use CEMS, the data must show that the total mass of actual NO<sub>x</sub> emissions determined pursuant to subsection (h)(1) of this Section is less than or equal to the allowable NO<sub>x</sub> emissions calculated in accordance with the equations in subsections (f) and (h)(2) of this Section for both the ozone season and calendar year. The equations in subsection (g) of this Section will not apply.
- l) The total mass of actual NO<sub>x</sub> emissions in lbs for a unit ( $EM_{act}$ ) must be the sum of the total mass of actual NO<sub>x</sub> emissions from each affected unit using CEMS data collected in accordance with 40 CFR 60 or 75, or

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alternate methodology that has been approved by the Agency or USEPA and included in a federally enforceable permit.

- 2) The allowable NO<sub>x</sub> emissions must be determined as follows:

$$EM_{all(i)} = \sum_{j=1}^m (Cd_j \times Flow_j \times 1.194 \times 10^{-7})$$

Where:

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

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

### **Section 217.392 Compliance**

On and after January 1, 2008, an owner or operator of an affected engine listed in Appendix G may not operate the affected engine unless the requirements of this Subpart Q are met or the affected engine is exempt pursuant to Section 217.386(b).

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

### **Section 217.394 Testing and Monitoring**

- a) An owner or operator must conduct an initial performance test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:
- 1) By January 1, 2008, for affected engines listed in Appendix G, Performance tests must be conducted on units listed in Appendix G, even if the unit is included in an emissions averaging plan pursuant to Section 217.388(b).

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- 2) Within the first 876 hours of operation per calendar year. Performance tests must be conducted on units that are not affected units that are included in an emissions averaging plan and operate more than 876 hours per calendar year.
  - 3) Once within the five-year period after the applicable compliance date set forth in Section 217.392. Performance tests must be conducted on units that are not affected units that are included in an emissions averaging plan and that operate fewer than 876 hours per calendar year.
- b) An owner or operator must conduct subsequent performance tests pursuant to subsection (c)(1) or (c)(2) of this Section as follows:
- 1) For affected engines listed in Appendix G and all units included in an emissions averaging plan, once every five years. Testing must be performed in the calendar year by May 1 or within 60 days after starting operation, whichever is later;
  - 2) If the monitored data shows that the unit is not in compliance with the applicable emissions concentration or emissions averaging plan, the owner or operator must report the deviation to the Agency in writing within 30 days and conduct a performance test pursuant to subsection (c) of this Section within 90 days after the determination of noncompliance; and
  - 3) When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.388, the owner or operator of a unit must, at his or her own expense, conduct the test in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Agency or USEPA.
- c) Testing Procedures:
- 1) For an engine: The owner or operator must conduct a performance test using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by reference in Section 217.104. Each compliance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO<sub>x</sub> emissions must be measured while the affected unit is operating at peak load. If the unit

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combusts more than one type of fuel (gaseous or liquid), including backup fuels, a separate performance test is required for each fuel.

- 2) For a turbine included in an emissions averaging plan: The owner or operator must conduct a performance test using the applicable procedures and methods in 40 CFR 60.4400, as incorporated by reference in Section 217.104.
- d) Monitoring: Except for those years in which a performance test is conducted pursuant to subsection (a) or (b) of this Section, the owner or operator of an affected unit or a unit included in an emissions averaging plan must monitor NO<sub>x</sub> concentrations annually, once between January 1 and May 1 or within the first 876 hours of operation per calendar year, whichever is later. If annual operation is less than 876 hours per calendar year, each affected unit must be monitored at least once every five years. Monitoring must be performed as follows:
- 1) A portable NO<sub>x</sub> monitor and method ASTM D6522-00, as incorporated by reference in Section 217.104, or a method approved by the Agency must be used. If the engine or turbine combusts both liquid and gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.
  - 2) NO<sub>x</sub> and O<sub>2</sub> concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan, as specified in Section 217.388.
- e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of this Section, an owner or operator may install and operate a CEMS on an affected unit that meets the applicable requirements of 40 CFR 60, subpart A and appendix B, incorporated by reference in Section 217.104, and complies with the quality assurance procedures specified in 40 CFR 60, appendix F or 40 CFR 75, as incorporated by reference in Section 217.104, or an alternate procedure as approved by the Agency or USEPA in a federally enforceable permit. The CEMS must be used to demonstrate compliance with the applicable emissions concentration or emissions averaging plan only on an ozone season and annual basis.

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(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

**Section 217.396 Recordkeeping and Reporting**

- a) Recordkeeping. The owner or operator of an Appendix G unit or a unit included in an emissions averaging plan must maintain records that demonstrate compliance with the requirements of this Subpart Q, which include, but are not limited to:
- 1) Identification, type (e.g., lean-burn, gas-fired), and location of each unit.
  - 2) Calendar date of the record.
  - 3) The number of hours the unit operated on a monthly basis and during each ozone season.
  - 4) Type and quantity of the fuel used on a daily basis.
  - 5) The results of all monitoring performed on the unit and reported deviations.
  - 6) The results of all tests performed on the unit.
  - 7) The plan for performing inspection and maintenance of the units, air pollution control equipment, and the applicable monitoring device, pursuant to Section 217.388(d).
  - 8) A log of inspections and maintenance performed on the unit's air emissions, monitoring device, and air pollution control device. These records must include, at a minimum, date, load levels and any manual adjustments, along with the reason for the adjustment (e.g., air to fuel ratio, timing or other settings).
  - 9) If complying with the emissions averaging plan provisions of Sections 217.388(b) and 217.390, copies of the calculations used to demonstrate compliance with the ozone season and annual control period limits, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the Agency.

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- 10) Identification of time periods for which operating conditions and pollutant data were not obtained by either the CEMS or alternate monitoring procedures, including the reasons for not obtaining sufficient data and a description of corrective actions taken.
- b) The owner or operator of an affected unit or unit included in an emissions averaging plan must maintain the records required by subsection (a) of this Section for a period of five years at the source at which the unit is located. The records must be made available to the Agency and USEPA upon request.
- c) Reporting Requirements
- 1) The owner or operator must notify the Agency in writing 30 days and five days prior to testing, pursuant to Section 217.394(a) and (b) and:
- A) If after the 30-days notice for an initially scheduled test is sent, there is a delay (e.g., due to operational problems) in conducting the performance test as scheduled, the owner or operator of the unit must notify the Agency as soon as possible of the delay in the original test date, either by providing at least seven days prior notice of the rescheduled date of the performance test or by arranging a new test date with the Agency by mutual agreement;
- B) Provide a testing protocol to the Agency 60 days prior to testing; and
- C) Not later than 30 days after the completion of the test, submit the results of the test to the Agency.
- 2) Pursuant to the requirements for monitoring in Section 217.394(d), the owner or operator of the unit must report to the Agency any monitored exceedances of the applicable NO<sub>x</sub> concentration from Section 217.388(a) or (b) within 30 days after performing the monitoring.
- 3) Within 90 days after permanently shutting down an affected unit or a unit included in an emissions averaging plan, the owner or operator of the unit must withdraw or amend the applicable permit to reflect that the unit is no longer in service.

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- 4) If demonstrating compliance through an emissions averaging plan:
- A) By October 31 following the applicable ozone season, the owner or operator must notify the Agency if he or she cannot demonstrate compliance for that ozone season; and
- B) By January 30 following the applicable calendar year, the owner or operator must submit to the Agency a report that demonstrates the following:
- i) For all units that are part of the emissions averaging plan, the total mass of allowable NO<sub>x</sub> emissions for the ozone season and for the annual control period;
- ii) The total mass of actual NO<sub>x</sub> emissions for the ozone season and annual control period for each unit included in the averaging plan;
- iii) The calculations that demonstrate that the total mass of actual NO<sub>x</sub> emissions are less than the total mass of allowable NO<sub>x</sub> emissions using equations in Section 217.390(f) and (g); and
- iv) The information required to determine the total mass of actual NO<sub>x</sub> emissions and the calculations performed in subsection (d)(4)(B)(iii) of this Section.
- 5) If operating a CEMS, the owner or operator must submit an excess emissions and monitoring systems performance report in accordance with the requirements of 40 CFR 60.7(c) and 60.13 or 40 CFR 75, incorporated by reference in Section 217.104, or an alternate procedure approved by the Agency or USEPA and included in a federally enforceable permit.

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)

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

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

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

(Source: Added at 31 Ill. Reg. 14271, effective September 25, 2007)