

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENTS

- R15-21
- 1) Heading of the Part: Sulfur Limitations
- 2) Code Citation: 35 Ill. Adm. Code 214
- 3) 

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
214.101	Amendment
214.102	Amendment
214.103	Amendment
214.104	Amendment
214.121	Amendment
214.122	Amendment
214.161	Amendment
214.162	Amendment
214.201	Amendment
214.301	Amendment
214.300	Amendment
214.305	New Section
214.421	Amendment
214.600	New Section
214.601	New Section
214.602	New Section
214.603	New Section
214.604	New Section
214.605	New Section
- RECEIVED  
MAY 21 2015  
STATE OF ILLINOIS  
Pollution Control Board
- 4) Statutory Authority: Sections 4, 10, 27, 28, and 28.2 of the Illinois Environmental Protection Act [415 ILCS 5/4, 10, 27, 28, 28.2]
- 5) A Complete Description of the Subjects and Issues Involved: The Agency proposes revisions to Part 214 to satisfy Illinois' obligation to submit a State Implementation Plan to the United States Environmental Protection Agency to address requirements under Sections 172, 191, and 192 of the Clean Air Act for areas designated as nonattainment with respect to the sulfur dioxide National Ambient Air Quality Standard.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: Consistent with proposed amendments to 35 Ill. Adm. Code 217 and 225; and 42 USC 7502, 7514, 7515a.
- 7) Will this rulemaking replace an emergency rule currently in effect? No

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- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)]
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the *Illinois Register*. Public comments must be filed with the Clerk of the Board. Public comments should reference Docket R15-21 and be addressed to:

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

Public comments may also be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

Interested persons may request copies of the Board's opinion and order in R15-21 by calling the Clerk's office at 312/814-3620, or may download copies from the Board's Web site at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

For more information, contact hearing officer Daniel Robertson at 312/814-6931 or by e-mail at [Daniel.Robertson@illinois.gov](mailto:Daniel.Robertson@illinois.gov).

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not-for-profit corporations affected: Any small business, small municipality, or not-for-profit corporation that is regulated by the Illinois Environmental Protection Agency for sulfur dioxide emissions
- B) Reporting, bookkeeping or other procedures required for compliance: None

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- C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on a regulatory agenda.

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

1 TITLE 35: ENVIRONMENTAL PROTECTION  
2 SUBTITLE B: AIR POLLUTION  
3 CHAPTER I: POLLUTION CONTROL BOARD  
4 SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS  
5 FOR STATIONARY SOURCES  
6

7 PART 214  
8 SULFUR LIMITATIONS  
9

10 SUBPART A: GENERAL PROVISIONS  
11

- 12 Section  
13 214.100 Scope and Organization  
14 214.101 Measurement Methods  
15 214.102 Abbreviations and Units  
16 214.103 Definitions  
17 214.104 Incorporations by Reference  
18

19 SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES  
20

- 21 Section  
22 214.120 Scope  
23 214.121 Large Sources  
24 214.122 Small Sources  
25

26 SUBPART C: EXISTING SOLID FUEL COMBUSTION EMISSION SOURCES  
27

- 28 Section  
29 214.140 Scope  
30 214.141 Sources Located in Metropolitan Areas  
31 214.142 Small Sources Located Outside Metropolitan Areas  
32 214.143 Large Sources Located Outside Metropolitan Areas  
33

34 SUBPART D: EXISTING LIQUID OR MIXED FUEL  
35 COMBUSTION EMISSION SOURCES  
36

- 37 Section  
38 214.161 Liquid Fuel Burned Exclusively  
39 214.162 Combination of Fuels  
40

41 SUBPART E: AGGREGATION OF SOURCES OUTSIDE METROPOLITAN AREAS  
42

- 43 Section

- 44 214.181 Dispersion Enhancement Techniques
- 45 214.182 Prohibition
- 46 214.183 General Formula
- 47 214.184 Special Formula
- 48 214.185 Alternative Emission Rate
- 49 214.186 New Operating Permits

50

51                                   SUBPART F: ALTERNATIVE STANDARDS FOR  
52                                   SOURCES INSIDE METROPOLITAN AREAS

53

54 Section

55 214.201 Alternative Standards for Sources in Metropolitan Areas

56 214.202 Dispersion Enhancement Techniques

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58                                   SUBPART K: PROCESS EMISSION SOURCES

59

60 Section

61 214.300 Scope

62 214.301 General Limitation

63 214.302 Exception for Air Pollution Control Equipment

64 214.303 Use of Sulfuric Acid

65 214.304 Fuel Burning Process Emission Source

66 214.305 Fuel Sulfur Content Limitations

67

68                                   SUBPART O: PETROLEUM REFINING, PETROCHEMICAL  
69                                   AND CHEMICAL MANUFACTURING

70

71 Section

72 214.380 Scope

73 214.381 Sulfuric Acid Manufacturing

74 214.382 Petroleum and Petrochemical Processes

75 214.383 Chemical Manufacturing

76 214.384 Sulfate and Sulfitite Manufacturing

77

78                                   SUBPART P: STONE, CLAY, GLASS AND CONCRETE PRODUCTS

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80 Section

81 214.400 Scope

82 214.401 Glass Melting and Heat Treating

83 214.402 Lime Kilns

84

85                                   SUBPART Q: PRIMARY AND SECONDARY METAL MANUFACTURING

86

- 87 Section
- 88 214.420 Scope
- 89 214.421 Combination of Fuels at Steel Mills in Metropolitan Areas
- 90 214.422 Secondary Lead Smelting in Metropolitan Areas
- 91 214.423 Slab Reheat Furnaces in St. Louis Area

92

93 SUBPART V: ELECTRIC POWER PLANTS

94

- 95 Section
- 96 214.521 Winnetka Power Plant

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98 SUBPART X: UTILITIES

99

- 100 Section
- 101 214.560 Scope
- 102 214.561 E. D. Edwards Electric Generating Station
- 103 214.562 Coffeen Generating Station

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105 SUBPART AA: REQUIREMENTS FOR CERTAIN SO<sub>2</sub> SOURCES

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- 107 Section
- 108 214.600 Definitions
- 109 214.601 Applicability
- 110 214.602 Compliance Deadline
- 111 214.603 Emission Limitations
- 112 214.604 Monitoring and Testing
- 113 214.605 Recordkeeping and Reporting

- 114
- 115 214.APPENDIX A Rule into Section Table
- 116 214.APPENDIX B Section into Rule Table
- 117 214.APPENDIX C Method used to Determine Average Actual Stack Height and Effective
- 118 Height of Effluent Release
- 119 214.APPENDIX D Past Compliance Dates

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121 AUTHORITY: Implementing Section 10 and authorized by Section 27 of the Environmental

122 Protection Act [415 ILCS 5/10 and 27].

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124 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 204: Sulfur Emission Standards and

125 Limitations, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-

126 5, 32 PCB 295, at 3 Ill. Reg. 5, p. 777, effective February 3, 1979; amended in R74-2, R75-5, 38

127 PCB 129, at 4 Ill. Reg. 28, p. 417, effective June 26, 1980; amended in R78-17, 40 PCB 291, at 5

128 Ill. Reg. 1892, effective February 17, 1981; amended in R77-15, 44 PCB 267, at 6 Ill. Reg. 2146,

129 effective January 28, 1982; amended and renumbered in R80-22(A) at 7 Ill. Reg. 4220, effective

130 March 28, 1983; codified at 7 Ill. Reg. 13597; amended in R80-22(B) at 8 Ill. Reg. 6172,  
 131 effective April 24, 1984; amended in R84-28 at 10 Ill. Reg. 9806, effective May 20, 1986;  
 132 amended in R86-31 at 12 Ill. Reg. 17387, effective October 14, 1988; amended in R86-30 at 12  
 133 Ill. Reg. 20778, effective December 5, 1988; amended in R87-31 at 15 Ill. Reg. 1017, effective  
 134 January 15, 1991; amended in R02-21 at 27 Ill. Reg. 12101, effective July 11, 2003; amended in  
 135 R04-12/20 at 30 Ill. Reg. 9671, effective May 15, 2006; amended in R15-21 at 39 Ill. Reg.  
 136 \_\_\_\_\_, effective \_\_\_\_\_.

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 138 SUBPART A: GENERAL PROVISIONS

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 140 **Section 214.101 Measurement Methods**

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 142 A determination of non-compliance based on any subsection of this Section shall not be refuted  
 143 by evidence of compliance with any other subsection.

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- 145 a) Sulfur Dioxide Measurement. Measurement of sulfur dioxide emissions from  
 146 stationary sources shall be made according to an applicable method specified in  
 147 40 CFR 60, ~~appendix~~Appendix A, Method 6, 6A, 6B, or 6C, incorporated by  
 148 reference in Section 214.104(a), or by measurement procedures established  
 149 pursuant to 40 CFR 60.8(b), incorporated by reference in Section 214.104(b), or  
 150 by an installed certified continuous emissions monitoring system, or by an  
 151 alternative monitoring method available under 40 CFR 75, incorporated by  
 152 reference in Section 214.10(e). (Ill. Rev. Stat. 1989, ch. 111½, par. 1010.)
  - 153
  - 154 b) Sulfuric Acid Mist and Sulfur Trioxide Measurement. Measurement of sulfuric  
 155 acid mist and sulfur trioxide shall be according to the barium-thorin titration  
 156 method specified in 40 CFR 60, ~~appendix~~Appendix A, Method 8, incorporated by  
 157 reference in Section 214.104(a), or a controlled condensate method approved in  
 158 writing by the Agency.
  - 159
  - 160 c) Solid Fuel Averaging Measurement Daily Analysis Method. This subsection  
 161 applies to sources at plants with total solid fuel-fired heat input capacity  
 162 exceeding 439.5 MW (1500 ~~mm~~millionBtu/hr). If daily fuel analysis is used to  
 163 demonstrate compliance or non-compliance with Sections 214.122, 214.141,  
 164 214.142(a) 214.162, 214.186 and 214.421, the sulfur dioxide emission rate to be  
 165 compared to the emission limit shall be considered to be the result of averaging  
 166 daily samples taken over any consecutive two-month period provided no more  
 167 than 5 percent of the sample values are greater than 20 percent above the sample  
 168 average. If samples from a source cannot meet this statistical criterion, each  
 169 individual daily sample analysis for such source shall be compared to the source's  
 170 emission limit to determine compliance. The specific ASTM procedures,  
 171 incorporated by reference in Section 214.104(c), shall be used for solid fuel  
 172 sampling, sulfur, and heating value determinations.

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- d) Weekly Analysis Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity exceeding 146.5 MW (500 ~~mm~~millionBtu/hr) but not exceeding 439.5 MW (1500 ~~mm~~millionBtu/hr). These plants shall demonstrate compliance or non-compliance with Sections 214.122, 214.141, 214.142(a), 214.162, 214.186 and 214.421 by either an analysis of calendar weekly composites of daily fuel samples or by compliance with subsection (c) ~~above~~, at the option of the plant. The specific ASTM procedures incorporated by reference in Section 214.104(c), shall be used for sulfur and heating value determinations.
- e) Monthly Analysis Method. This subsection applies to sources at plants with total fuel-fired heat input capacity exceeding 14.65 MW (50 ~~mm~~millionsBtu/hr) but not exceeding 146.5 MW (500 ~~mm~~millionBtu/hr). These plants shall demonstrate compliance or non-compliance with Sections 214.122, 214.141, 214.142(a), 214.162, 214.186 and 214.421 by either an analysis of calendar monthly composites of daily fuel samples or by compliance with subsection (c) ~~above~~, at the option of the plant. ASTM procedures incorporated by reference in Section 214.104(c), shall be used for sulfur and heating value determinations.
- f) Small Source Alternative Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity not exceeding 14.65 MW (50 ~~mm~~millionBtu/hr). Compliance or non-compliance with Sections 214.122, 214.141, 214.142(a), 214.162, 214.186 and 214.421 shall be demonstrated by a calendar month average sulfur dioxide emission rate.
- g) Exemptions. Subsections (c) through (f) shall not apply to sources controlling sulfur dioxide emissions by flue gas desulfurization equipment or by sorbent injection.
- h) Hydrogen Sulfide Measurement. For purposes of determining compliance with Section 214.382(c), the concentration of hydrogen sulfide in petroleum refinery fuel gas shall be measured using the Tutwiler Procedure specified in 40 CFR 60.648, incorporated by reference in Section 214.104(d).

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.102 Abbreviations and Units**

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

<u>BTU</u> or btu	British thermal units (60° F)
ft	foot

gr	grains
J	Joule
kg	kilogram
kg/MW-hr	kilograms per megawatt-hour
km	kilometer
lbs	pounds
lbs/mmBbtu	pounds per million Bbtu
m	meter
mg	milligram
Mg	megagram, metric ton or tonne
mi	mile
mmBbtu	million British thermal units
mmBbtu/hr	million British thermal units per hour
MW	megawatt; one million watts
MW-hr	megawatt-hour
ng	nanogram; one billionth of a gram by volume
ng/J	nanograms per Joule
ppm	parts per million
scf	standard cubic foot
scm	standard cubic meter
T	English ton

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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
mmBbtu/hr	0.293 MW
1	1.548 kg/MW-hr
lb/mmBbtu	
1 mi	1.61 km
1 gr/scf	2289 mg/scm

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(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.103 Definitions**

Unless otherwise indicated, the definitions of 35 Ill. Adm. Code 201 and 211 apply to this Part.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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**Section 214.104 Incorporations by Reference**

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

- a) 40 CFR 60, Appendix A (20141989):
  - 1) Method 1: Sample and Velocity Traverses for Stationary Sources;
  - 2) Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate;
  - 3) Method 3: Gas Analysis for the Determination of Dry Molecular Weight;
  - 4) Method 4: Determination of Moisture Content in Stack Gases;
  - ~~5~~) Method 6: Determination of Sulfur Dioxide Emissions From Stationary Sources;
  - ~~6~~2) Method 6A: Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide Emissions From Fossil Fuel Combustion Sources;
  - ~~7~~3) Method 6B: Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions From Fossil Fuel Combustion Sources;
  - ~~8~~4) Method 6C: Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure);
  - ~~9~~5) Method 8: Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions From Stationary Sources;-
  - ~~10~~) Method 19: Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates.
- b) 40 CFR 60.8(b) (20141989), Performance Tests.
- c) American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103:
  - 1) For solid fuel sampling:
    - ASTM D-2234 (1989)

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ASTM D-2013 (1986)

2) For sulfur determinations:

ASTM D-3177 (1984)

ASTM D-2622 (1987)

ASTM D-3180 (1984)

ASTM D-4239 (1985)

3) For heating value determinations:

ASTM D-2015 (1985)

ASTM D-3286 (1985)

d) Tutwiler Procedure for hydrogen sulfide, 40 CFR 60.648 (20141989).

e) 40 CFR 75 (2014).

f) USEPA's Emission Measurement Center Guideline Document (GD-042), Preparation and Review of Site-Specific Emission Test Plans, Revised March 1999.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

**Section 214.121 Large Sources**

This ~~Section~~ applies to new fuel combustion emission sources with actual heat input greater than 73.2 MW (250 mmBtu/hr).

a) Solid Fuel Burned Exclusively. No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion emission source greater than 73.2 MW (250 mmBtu/hr), burning solid fuel exclusively, to exceed 1.86 kg of sulfur dioxide per MW-hr of actual heat input (1.2 lbs/mmBtu).

(~~BOARD NOTE~~Board Note: This ~~Section~~ was invalidated in

Commonwealth Edison v. PCB, 25 Ill. App.3d 271, 62 Ill.2d 494, 43 N.E.2d 459, 323 N.E.2d 84, Ashland Chemical Corp. v. PCB, 64 Ill. App.3d 169, and Illinois State Chamber of Commerce v. PCB, 67 Ill. App.3d 839, 384 N.E.2d 922, 78 Ill.2d 1, 398 N.E.2d 9.)

b) Liquid Fuel Burned Exclusively.

1) Prior to January 1, 2017, no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion emission source with actual heat input greater than 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively, to exceed the following:

A1) To exceed 1.2 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (0.8 lbs/mmBtu); and

B2) To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mmBtu);-

2) On and after January 1, 2017, the owner or operator of a new fuel combustion emission source with actual heat input greater than 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively, must comply with the following:

A) The sulfur content of all residual fuel oil used by the fuel combustion emission source must not exceed 1000 ppm;

B) The sulfur content of all distillate fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and

C) The owner or operator must:

i) Maintain records demonstrating that the fuel oil used by the fuel combustion emission source complies with the requirements in subsections (b)(2)(A) and (b)(2)(B), including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;

ii) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days after receipt of a request by the Agency; and

355                   iii) Notify the Agency within 30 days after discovery of  
356                   deviations from any of the requirements in this subsection  
357                   (b)(2). At minimum, and in addition to any permitting  
358                   obligations, the notification must include a description of  
359                   the deviations, a discussion of the possible cause of the  
360                   deviations, any corrective actions taken, and any  
361                   preventative measures taken.

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363                   (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
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365 **Section 214.122 Small Sources**

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367 This ~~Section~~ section applies to new fuel combustion emission sources with actual heat input  
368 smaller than, or equal to, 73.2 MW (250 mmBtu/hr).

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370                   a) Solid Fuel Burned Exclusively. No person shall cause or allow the emission of  
371                   sulfur dioxide into the atmosphere in any one hour period from any new fuel  
372                   combustion source with actual heat input smaller than, or equal to, 73.2 MW (250  
373                   mmBtu/hr), burning solid fuel exclusively, to exceed 2.79 kg of sulfur dioxide  
374                   per MW-hr of actual heat input (1.8 lbs/mmBtu).

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376                   b) Liquid Fuel Burned Exclusively.  
377  
378                   1) Prior to January 1, 2017, no ~~no~~ person shall cause or allow the emission of  
379                   sulfur dioxide into the atmosphere in any one hour period from any new  
380                   fuel combustion emission source with actual heat input smaller than, or  
381                   equal to, 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively, to  
382                   exceed the following:

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384                   A1) ~~To exceed~~ 1.55 kg of sulfur dioxide per MW-hr of actual heat  
385                   input when residential fuel oil is burned (0.8 lbs/mmBtu); and

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387                   B2) ~~To exceed~~ 0.46 kg of sulfur dioxide per MW-hr of actual heat  
388                   input when distillate fuel oil is burned (0.3 lbs/mmBtu).

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390                   2) On and after January 1, 2017, the owner or operator of a new fuel  
391                   combustion emission source with actual heat input smaller than, or equal  
392                   to, 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively, must  
393                   comply with the following:

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395                   A) The sulfur content of all residual fuel oil used by the fuel  
396                   combustion emission source must not exceed 1000 ppm;  
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398 B) The sulfur content of all distillate fuel oil used by the fuel  
399 combustion emission source must not exceed 15 ppm; and

401 C) The owner or operator must:

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403 i) Maintain records demonstrating that the fuel oil used by the  
404 fuel combustion emission source complies with the  
405 requirements in subsections (b)(2)(A) and (b)(2)(B),  
406 including records from the fuel supplier indicating the  
407 sulfur content of the fuel oil and the method used to  
408 determine sulfur content;

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410 ii) Retain the records for at least 5 years, and provide copies of  
411 the records to the Agency within 30 days after receipt of a  
412 request by the Agency; and

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414 iii) Notify the Agency within 30 days after discovery of  
415 deviations from any of the requirements in this subsection  
416 (b)(2). At minimum, and in addition to any permitting  
417 obligations, the notification must include a description of  
418 the deviations, a discussion of the possible cause of the  
419 deviations, any corrective actions taken, and any  
420 preventative measures taken.

421  
422 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

423  
424 SUBPART D: EXISTING LIQUID OR MIXED FUEL  
425 COMBUSTION EMISSION SOURCES

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427 **Section 214.161 Liquid Fuel Burned Exclusively**

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429 a) Prior to January 1, 2017, no ~~No~~ person shall cause or allow the emission of sulfur  
430 dioxide into the atmosphere in any one hour period from any existing fuel  
431 combustion emission source, burning liquid fuel exclusively, to exceed the  
432 following:

433  
434 1a) ~~To exceed~~ 1.55 kg of sulfur dioxide per MW-hr of actual heat input when  
435 residual fuel oil is burned (1.0 lbs/mmBbtu); and

436  
437 2b) ~~To exceed~~ 0.46 kg of sulfur dioxide per MW-hr of actual heat input when  
438 distillate fuel oil is burned (0.3 lbs/mmBbtu).  
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- 440           **b)**     Except as provided in subsections (c), (d), and (e), on and after January 1, 2017,  
441           the owner or operator of an existing fuel combustion emission source, burning  
442           liquid fuel exclusively, must comply with the following:  
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444           1)     The sulfur content of all residual fuel oil used by the fuel combustion  
445           emission source must not exceed 1000 ppm;  
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447           2)     The sulfur content of all distillate fuel oil used by the fuel combustion  
448           emission source must not exceed 15 ppm; and  
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450           3)     The owner or operator must:  
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452                   A)     Maintain records demonstrating that the fuel oil used by the fuel  
453                   combustion emission source complies with the requirements in  
454                   subsections (b)(1) and (b)(2), including records from the fuel  
455                   supplier indicating the sulfur content of the fuel oil and the method  
456                   used to determine sulfur content;  
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458                   B)     Retain the records for at least 5 years, and provide copies of the  
459                   records to the Agency within 30 days after receipt of a request by  
460                   the Agency; and  
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462                   C)     Notify the Agency within 30 days after discovery of deviations  
463                   from any of the requirements in this subsection (b). At minimum,  
464                   and in addition to any permitting obligations, the notification must  
465                   include a description of the deviations, a discussion of the possible  
466                   cause of the deviations, any corrective actions taken, and any  
467                   preventative measures taken.  
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469           **c)**     The sulfur content limitation for distillate fuel oil in subsection (b)(2) does not  
470           apply to existing electric generating units at Midwest Generation's Joliet station  
471           (located at or near 1800 Channahon Road, Joliet IL), Powerton station (located at  
472           or near 13082 E. Manito Road, Pekin IL), Waukegan station (located at or near  
473           401 E. Greenwood Avenue, Waukegan IL), and Will County station (located at or  
474           near 529 E. 135<sup>th</sup>, Romeoville IL). The owner or operator of such electric  
475           generating units must instead comply with the following:  
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477           1)     From January 1, 2016 through December 31, 2018, the sulfur content of  
478           all distillate fuel oil purchased for use by such electric generating units  
479           must not exceed 15 ppm;  
480

- 481 2) From January 1, 2017 through December 31, 2018, the sulfur content of  
482 all distillate fuel oil used by such electric generating units must not exceed  
483 500 ppm;  
484
- 485 3) On and after January 1, 2019, the sulfur content of all distillate fuel oil  
486 used by such electric generating units must not exceed 15 ppm;  
487
- 488 4) The owner or operator must:  
489
- 490 A) Maintain records demonstrating that the distillate fuel oil  
491 purchased from January 1, 2016 through December 31, 2018 for  
492 use by the electric generating units complies with the requirements  
493 in subsection (c)(1), including the date of purchase and records  
494 from the fuel supplier indicating the sulfur content of the fuel oil  
495 and the method used to determine sulfur content;  
496
- 497 B) Maintain records demonstrating that the distillate fuel oil used  
498 from January 1, 2017 through December 31, 2018 by the electric  
499 generating units, complies with the requirements in subsection  
500 (c)(2), including records from the fuel supplier indicating the sulfur  
501 content of the fuel oil and the method used to determine sulfur  
502 content;  
503
- 504 C) On and after January 1, 2019, maintain records demonstrating that  
505 the distillate fuel oil used by the electric generating units complies  
506 with the requirements in subsection (c)(3), including records from  
507 the fuel supplier indicating the sulfur content of the fuel oil and the  
508 method used to determine sulfur content;  
509
- 510 D) Retain all records required by this subsection (c) for at least 5  
511 years, and provide copies of the records to the Agency within 30  
512 days after receipt of a request by the Agency; and  
513
- 514 E) Notify the Agency within 30 days after discovery of deviations  
515 from any of the requirements in this subsection (c). At minimum,  
516 and in addition to any permitting obligations, the notification must  
517 include a description of the deviations, a discussion of the possible  
518 cause of the deviations, any corrective actions taken, and any  
519 preventative measures taken;  
520
- 521 5) Maintain records indicating the amount of distillate fuel oil used by the  
522 fuel combustion emission sources each calendar year for purposes of  
523 research and development or testing of equipment for sale outside of

524 Illinois, as well as records demonstrating that such fuel oil complies with  
525 the requirements in this subsection (c), including records from the fuel  
526 supplier indicating the sulfur content of the fuel oil and the method used to  
527 determine sulfur content;

528  
529 6) Retain the records for at least 5 years, and provide copies of the records to  
530 the Agency within 30 days after receipt of a request by the Agency; and

531  
532 7) Notify the Agency within 30 days after discovery of deviations from any  
533 of the requirements in this subsection (c). At minimum, and in addition to  
534 any permitting obligations, the notification must include a description of  
535 the deviations, a discussion of the possible cause of the deviations, any  
536 corrective actions taken, and any preventative measures taken.

537  
538 d) The sulfur content limitation for distillate fuel oil in subsection (b)(2) does not  
539 apply to existing fuel combustion emission sources at Caterpillar's Montgomery  
540 facility (located at or near 325 South Route 31, Montgomery IL). The owner or  
541 operator of the fuel combustion emission sources must instead comply with the  
542 following:

543  
544 1) On and after January 1, 2016:  
545  
546 A) The sulfur content of all distillate fuel oil purchased for use by the  
547 fuel combustion emission sources must not exceed 15 ppm; and

548  
549 B) The sulfur content of all distillate fuel oil used by the fuel  
550 combustion emission sources must not exceed 500 ppm;

551  
552 2) The owner or operator must:

553  
554 A) Maintain records demonstrating that the distillate fuel oil  
555 purchased on and after January 1, 2016 for use by the fuel  
556 combustion emission sources complies with the requirements in  
557 subsection (d)(1)(A), including the date of purchase and records  
558 from the fuel supplier indicating the sulfur content of the fuel oil  
559 and the method used to determine sulfur content;

560  
561 B) Maintain records demonstrating that the distillate fuel oil used on  
562 and after January 1, 2016 by the fuel combustion emission sources  
563 complies with the requirements in subsection (d)(1)(B), including  
564 records from the fuel supplier indicating the sulfur content of the  
565 fuel oil and the method used to determine sulfur content;

566

567 C) Retain all records required by this subsection (d) for at least 5  
568 years, and provide copies of the records to the Agency within 30  
569 days after receipt of a request by the Agency; and

570  
571 D) Notify the Agency within 30 days after discovery of deviations  
572 from any of the requirements in this subsection (d). At minimum,  
573 and in addition to any permitting obligations, the notification must  
574 include a description of the deviations, a discussion of the possible  
575 cause of the deviations, any corrective actions taken, and any  
576 preventative measures taken.

577  
578 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
579

580 **Section 214.162 Combination of Fuels**

581  
582 a) No person shall cause or allow the emission of sulfur dioxide into the atmosphere  
583 in any one hour period from any fuel combustion emission source burning  
584 simultaneously any combination of solid, liquid and gaseous fuels to exceed the  
585 allowable emission rate determined by the following equation:  
586

$$E = S_s H_s + S_d H_d + S_R H_R$$

587 b) Symbols in the equation mean the following:  
588

- E = allowable sulfur dioxide emission rate;
- S<sub>s</sub> = solid fuel sulfur dioxide emission standard which is applicable;
- S<sub>d</sub> = distillate oil sulfur dioxide emission standard determined from the table in subsection (d);
- S<sub>R</sub> = residual fuel oil sulfur dioxide emission standard;
- H<sub>s</sub> = actual heat input from solid fuel;
- H<sub>d</sub> = actual heat input from distillate fuel oil;
- H<sub>R</sub> = actual heat input from residual fuel oil;

589 c) That portion of the actual heat input that is derived:  
590

- 591 1) From the burning of gaseous fuels produced by the gasification of solid  
592 fuels shall be included in H<sub>s</sub>;
- 593 2) From the burning of gaseous fuels produced by the gasification of  
594 distillate fuel oil shall be included in H<sub>d</sub>;
- 595 3) From the burning of gaseous fuels produced by the gasification of residual  
596 fuel oil shall be included in H<sub>R</sub>;
- 597
- 598

599 fuel oil shall be included in H<sub>R</sub>;

600  
601 4) From the burning of gaseous fuels produced by the gasification of any  
602 other liquid fuel shall be included in H<sub>R</sub>; and

603  
604 5) From the burning of by-product gases such as those produced from a blast  
605 furnace or a catalyst regeneration unit in a petroleum refinery shall be  
606 included in H<sub>R</sub>.

607  
608 d) Metric or English units may be used in the equation of subsection (a) as follows:  
609

<u>Parameter</u>	<u>Metric</u>	<u>English</u>
E	kg/hr	lbs/hr
S <sub>S</sub> , S <sub>R</sub>	kg/MW-hr	lbs/mmB <sub>t</sub> tu
S <sub>d</sub> prior to January 1, 2017	0.46 kg/MW-hr	0.3 lbs/mmB <sub>t</sub> tu
<u>S<sub>d</sub> on and after January 1, 2017</u>	<u>0.023 kg/MW-hr</u>	<u>0.0015 lb/mmBtu</u>
H <sub>S</sub> , H <sub>d</sub> , H <sub>R</sub>	MW	mmB <sub>t</sub> tu

610  
611 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
612

613 SUBPART F: ALTERNATIVE STANDARDS FOR  
614 SOURCES INSIDE METROPOLITAN AREAS

615  
616 **Section 214.201 Alternative Standards for Sources in Metropolitan Areas**  
617

618 Any owner or operator of an existing fuel combustion emission source located in the Chicago,  
619 St. Louis (Illinois) or Peoria major metropolitan areas may petition the Board for approval of an  
620 alternate emission rate specified in emissions of pounds of sulfur dioxide per mmB<sub>t</sub>tu or actual  
621 heat input for any such fuel combustion emission source, up to a maximum of 6.8 pounds of  
622 sulfur dioxide per mmB<sub>t</sub>tu of actual heat input (10.5 kg/MW-hr). Such person shall prove in an  
623 adjudicative hearing before the Board that the proposed emission rate will not, under predictable  
624 worst case conditions cause or contribute to a violation of any applicable primary or secondary  
625 sulfur dioxide ambient air quality standard or of any applicable prevention of significant  
626 deterioration increment. An emission rate approved pursuant to this Section shall be a substitute  
627 for that standard otherwise required by this Part. Nothing in this Section, however, excuses a  
628 source subject to Subpart AA from complying with the requirements set forth in that Subpart.  
629

- 630 a) Every owner or operator of an existing fuel combustion emission source so  
631 petitioning the Board for approval of an emission standard shall follow the  
632 applicable procedures described in 35 Ill. Adm. Code, Subtitle A, Chapter I.  
633
- 634 b) Any emission standard so approved shall be included as a condition in operating

635 permits issued pursuant to 35 Ill. Adm. Code 201. Any owner or operator of a  
636 fuel combustion emission source who receives Board approval of such an  
637 emission standard shall apply to the Agency within 30 days ~~after~~ approval of  
638 ~~that~~ such standard for a revision of its operating permit for ~~the~~ such source.

- 639  
640 c) No owner or operator of an existing fuel combustion emission source shall seek  
641 such an exemption or comply with the emission standard so granted by the use of  
642 dispersion enhancement techniques referred to in Section 214.202.

643 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

644  
645  
646 **SUBPART K: PROCESS EMISSION SOURCES**

647  
648 **Section 214.300 Scope**

649 Subpart K contains general rules for sulfur emissions from process sources. These may be  
650 modified by industry and site specific rules in other Subparts of this Part ~~et seq.~~ Subpart K also  
651 contains sulfur content limitations for fuel oil used by process emission sources. These sulfur  
652 content limitations apply regardless of industry and site specific rules set forth in other Subparts  
653 of this Part.

654  
655  
656 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

657  
658 **Section 214.301 General Limitation**

659 Except as further provided by this Part, no person shall cause or allow the emission of sulfur  
660 dioxide into the atmosphere from any process emission source to exceed 2000 ppm on a dry  
661 basis, when averaged over a one-hour period.

662  
663  
664 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

665  
666 **Section 214.305 Fuel Sulfur Content Limitations**

- 667  
668 a) Except as provided in subsections (b), (c), and (d), on and after January 1, 2017  
669 the owner or operator of a process emission source must comply with the  
670 following:

671  
672 1) The sulfur content of all residual fuel oil used by the process emission  
673 source must not exceed 1000 ppm;

674  
675 2) The sulfur content of all distillate fuel oil used by the process emission  
676 source must not exceed 15 ppm; and  
677

- 678 3) The owner or operator must:  
679  
680 A) Maintain records demonstrating that the fuel oil used by the  
681 process emission source complies with the requirements in  
682 subsections (a)(1) and (a)(2), including records from the fuel  
683 supplier indicating the sulfur content of the fuel oil and the method  
684 used to determine sulfur content;  
685  
686 B) Retain the records for at least 5 years, and provide copies of the  
687 records to the Agency within 30 days after receipt of a request by  
688 the Agency; and  
689  
690 C) Notify the Agency within 30 days after discovery of deviations  
691 from any of the requirements in this subsection (a). At minimum,  
692 and in addition to any permitting obligations, such notification  
693 must include a description of the deviations, a discussion of the  
694 possible cause of the deviations, any corrective actions taken, and  
695 any preventative measures taken.  
696  
697 b) The sulfur content limitation for distillate fuel oil in subsection (a)(2) does not  
698 apply to distillate fuel oil used by "TC-F/TC-L/TCL Wing 5" and "TC-F/TC-L  
699 Alternative" at Caterpillar Technical Center (located at or near 1311 E. Cedar  
700 Hills Dr., Mossville IL) for purposes of research and development or testing of  
701 equipment intended for sale outside of Illinois. This exemption is limited to a  
702 combined total of 150,000 gallons of distillate fuel oil per calendar year. The  
703 sulfur content of the fuel oil must not exceed 500 ppm. The owner or operator of  
704 the process emission sources described in this subsection must also comply with  
705 the following:  
706  
707 1) Maintain records indicating the amount of distillate fuel oil used by the  
708 process emission sources each calendar year for purposes of research and  
709 development or testing of equipment for sale outside of Illinois, as well as  
710 records demonstrating that fuel oil complies with the requirements in this  
711 subsection (b), including records from the fuel supplier indicating the  
712 sulfur content of the fuel oil and the method used to determine sulfur  
713 content;  
714  
715 2) Retain the records for at least 5 years, and provide copies of the records to  
716 the Agency within 30 days after receipt of a request by the Agency; and  
717  
718 3) Notify the Agency within 30 days after discovery of deviations from any  
719 of the requirements in this subsection (b). At minimum, and in addition to  
720 any permitting obligations, the notification must include a description of

721 the deviations, a discussion of the possible cause of the deviations, any  
722 corrective actions taken, and any preventative measures taken.  
723

724 c) The sulfur content limitation for distillate fuel oil in subsection (a)(2) does not  
725 apply to existing process emission sources at Caterpillar's Montgomery facility  
726 (located at or near 325 South Route 31, Montgomery IL). The owner or operator  
727 of the process emission sources must instead comply with the following:  
728

729 1) On and after January 1, 2016:  
730

731 A) The sulfur content of all distillate fuel oil purchased for use by the  
732 process emission sources must not exceed 15 ppm; and  
733

734 B) The sulfur content of all distillate fuel oil used by the process  
735 emission sources must not exceed 500 ppm;  
736

737 2) The owner or operator must:  
738

739 A) Maintain records demonstrating that the distillate fuel oil  
740 purchased on and after January 1, 2016 for use by the process  
741 emission sources complies with the requirements in subsection  
742 (c)(1)(A) of this Section, including the date of purchase and  
743 records from the fuel supplier indicating the sulfur content of the  
744 fuel oil and the method used to determine sulfur content;  
745

746 B) Maintain records demonstrating that the distillate fuel oil used on  
747 and after January 1, 2016 by the process emission sources  
748 complies with the requirements in subsection (c)(1)(B), including  
749 records from the fuel supplier indicating the sulfur content of the  
750 fuel oil and the method used to determine sulfur content;  
751

752 C) Retain all records required by this subsection (c) for at least 5  
753 years, and provide copies of the records to the Agency within 30  
754 days after receipt of a request by the Agency; and  
755

756 D) Notify the Agency within 30 days after discovery of deviations  
757 from any of the requirements in this subsection (c). At minimum,  
758 and in addition to any permitting obligations, the notification must  
759 include a description of the deviations, a discussion of the possible  
760 cause of the deviations, any corrective actions taken, and any  
761 preventative measures taken.  
762

763 d) The sulfur content limitation for distillate fuel oil in subsection (a)(2) does not  
764 apply to existing electric generating units at Midwest Generation's Fisk station  
765 (located at or near 1111 W. Cermak Road, Chicago IL) or Waukegan station  
766 (located at or near 401 E. Greenwood Avenue, Waukegan IL). The owner or  
767 operator of these electric generating units must instead comply with the  
768 following:

769  
770 1) From January 1, 2016 through December 31, 2018, the sulfur content of  
771 all distillate fuel oil purchased for use by the electric generating units must  
772 not exceed 15 ppm;

773  
774 2) From January 1, 2017 through December 31, 2018, the sulfur content of  
775 all distillate fuel oil used by the electric generating units must not exceed  
776 500 ppm;

777  
778 3) On and after January 1, 2019, the sulfur content of all distillate fuel oil  
779 used by the electric generating units must not exceed 15 ppm;

780  
781 4) The owner or operator must:

782  
783 A) Maintain records demonstrating that the distillate fuel oil  
784 purchased from January 1, 2016 through December 31, 2018 for  
785 use by the electric generating units complies with the requirements  
786 in subsection (d)(1), including the date of purchase and records  
787 from the fuel supplier indicating the sulfur content of the fuel oil  
788 and the method used to determine sulfur content;

789  
790 B) Maintain records demonstrating that the distillate fuel oil used  
791 from January 1, 2017 through December 31, 2018 by the electric  
792 generating units complies with the requirements in subsection  
793 (d)(2), including records from the fuel supplier indicating the  
794 sulfur content of the fuel oil and the method used to determine  
795 sulfur content;

796  
797 C) On and after January 1, 2019, maintain records demonstrating that  
798 the distillate fuel oil used by the electric generating units complies  
799 with the requirements in subsection (d)(3), including records from  
800 the fuel supplier indicating the sulfur content of the fuel oil and the  
801 method used to determine sulfur content;

802  
803 D) Retain all records required by this subsection (d) for at least 5  
804 years, and provide copies of the records to the Agency within 30  
805 days of receipt after a request by the Agency; and

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E) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (d). At minimum, and in addition to any permitting obligations, the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART Q: PRIMARY AND SECONDARY  
METAL MANUFACTURING

**Section 214.421 Combination of Fuels at Steel Mills in Metropolitan Areas**

a) Section 214.162 notwithstanding, no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any existing fuel combustion emission source at a steel mill located in the Chicago or St. Louis (Illinois) major metropolitan area burning any solid, liquid or gaseous fuel, or any combination thereof, to exceed the allowable emission rate determined by the following equation:

$$E = S_s H_s + S_d H_d + S_R H_R + S_G H_G$$

b) Symbols in the equation mean the following:

- E = allowable sulfur dioxide emission rate;
- S<sub>S</sub> = solid fuel sulfur dioxide emission standard which is applicable;
- S<sub>d</sub> = distillate oil sulfur dioxide emission standard determined from the table in subsection (d);
- S<sub>R</sub> = residual oil sulfur dioxide emission standard which is applicable;
- S<sub>G</sub> = maximum by-product gas sulfur dioxide emissions which would result if the applicable by-product gas which was burned had been burned alone at any time during the 12 months preceding the latest operation, on or before March 28, 1983, of an emission source using any by-product gas;
- H<sub>S</sub> = actual heat input from solid fuel;
- H<sub>d</sub> = actual heat input from distillate fuel oil;
- H<sub>R</sub> = actual heat input from residual fuel oil;
- H<sub>G</sub> = actual heat input from by-product gases, such as those produced from a blast furnace.

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833

c) That portion of the actual heat input that is derived:

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845  
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847  
848

- 1) From the burning of gaseous fuels produced by the gasification of solid fuels shall be included in H<sub>S</sub>;
  - 2) From the burning of gaseous fuels produced by the gasification of distillate fuel oil shall be included in H<sub>d</sub>;
  - 3) From the burning of gaseous fuels produced by the gasification of residual fuel oil shall be included in H<sub>R</sub>; and
  - 4) From the burning of gaseous fuels produced by the gasification of any other liquid fuel shall be included in H<sub>G</sub>.
- d) Metric or English units may be used in the equation of subsection (a) as follows:

<u>Parameter</u>	<u>Metric</u>	<u>English</u>
E	kg/hr	lbs/hr
S <sub>S</sub> , S <sub>R</sub> , S <sub>G</sub>	kg/MW-hr	lbs/mmBbtu
S <sub>d</sub> prior to January 1, 2017	0.46 kg/MW-hr	0.3 lbs/mmBbtu
S <sub>d</sub> on and after January 1, 2017	0.023 kg/MW-hr	0.0015 lb/mmBtu
H <sub>S</sub> , H <sub>d</sub> , H <sub>R</sub> , H <sub>G</sub>	MW	mmBbtu

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(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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852  
853

SUBPART AA: REQUIREMENTS FOR CERTAIN SO<sub>2</sub> SOURCES

854 **Section 214.600 Definitions**

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856  
857  
858

For purposes of this Subpart, the following definitions apply. Unless a different meaning for a term is clear from its context, all terms not defined in this Section have the meanings given to them in the Illinois Environmental Protection Act and in 35 Ill. Adm. Code 201 and 211.

859

"Agency" means the Illinois Environmental Protection Agency.

861

"Aventine Renewable Energy" means the ethanol production source located at or near 1300 S. 2<sup>nd</sup> Street, Pekin IL.

862

"Illinois Power Holdings E.D. Edwards" means the electrical power generation source located at or near 7800 S. Cilco Lane, Bartonville IL.

863

"Ingredion Bedford Park" means the corn wet milling source located at or near 6400 S. Archer Road, Bedford Park IL.

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"Midwest Generation Joliet" means the electrical power generation source located at or near 1800 Channahon Road, Joliet IL.

"Midwest Generation Powerton" means the electrical power generation source located at or near 13082 E. Manito Road, Pekin IL.

"Midwest Generation Will County" means the electrical power generation source located at or near 529 E. 135<sup>th</sup>, Romeoville IL.

"Owens Corning" means the asphalt and roofing products manufacturing source located at or near 5824 S. Archer Road, Summit IL.

"Oxbow Midwest Calcining" means the petroleum coke product source located at or near 12308 S. New Avenue, Lemont IL.

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.601 Applicability**

- a) This Subpart applies to the following sources:
  - 1) Aventine Renewable Energy;
  - 2) Illinois Power Holdings E.D. Edwards;
  - 3) Ingredion Bedford Park;
  - 4) Midwest Generation Joliet;
  - 5) Midwest Generation Powerton;
  - 6) Midwest Generation Will County;
  - 7) Owens Corning; and
  - 8) Oxbow Midwest Calcining.
  
- b) Once a source is subject to this Subpart, it is always subject to this Subpart, regardless of change in ownership or unit designation, or any other modification at the source.

912 c) Nothing in this Subpart relieves a source of the obligation to comply with the air  
913 quality standards set forth in 35 Ill. Adm. Code 243, or with any other applicable  
914 requirement set forth in this Part.

915  
916 (Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
917

918 **Section 214.602 Compliance Deadline**

919  
920 On and after January 1, 2017, the owner or operator of a source identified in Section 214.601(a)  
921 must comply with the provisions in this Subpart.

922  
923 (Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
924

925 **Section 214.603 Emission Limitations**

926  
927 The owner or operator of a source must comply with the following emission limitations, as  
928 applicable, expressed in terms of pounds of SO<sub>2</sub> emitted per clock hour.

929	a)	<u>Aventine Renewable Energy</u>	<u>lb/hr</u>
930			
931			
932	1)	<u>Cyclone East controlling First</u>	<u>0.27</u>
933		<u>Germ Drying System</u>	
934			
935	2)	<u>Cyclone West controlling First</u>	<u>0.37</u>
936		<u>Germ Drying System</u>	
937			
938	3)	<u>Second Germ Drying System</u>	<u>0.01</u>
939			
940	4)	<u>Gluten Dryer 4</u>	<u>3.12</u>
941			
942	5)	<u>Gluten Dryer 9</u>	<u>10.50</u>
943			
944	6)	<u>Germ Dryer 1</u>	<u>4.98</u>
945			
946	7)	<u>Germ Dryer 3</u>	<u>4.26</u>
947			
948	8)	<u>Yeast Dryer</u>	<u>1.50</u>
949			
950	9)	<u>Scrubber controlling Steep</u>	<u>1.79</u>
951		<u>Acid Tower</u>	
952			
953	10)	<u>Biogas Flare</u>	<u>0.001</u>
954			

955	11)	<u>Boiler A</u>	<u>0.00</u>
956			
957	12)	<u>Boiler B</u>	<u>0.00</u>
958			
959	13)	<u>Boiler C</u>	<u>0.00</u>
960			
961	b)	<u>Illinois Power Holdings E.D. Edwards</u>	<u>lb/hr</u>
962			
963	1)	<u>Units 1 and 2 combined</u>	<u>2100.00</u>
964			
965	2)	<u>Unit 3</u>	<u>2756.00</u>
966			
967	3)	<u>Unit 3, if both Units 1 and 2</u>	<u>4000.00</u>
968		<u>permanently shut down</u>	
969			
970	c)	<u>Ingredion Bedford Park</u>	<u>lb/hr</u>
971			
972	1)	<u>Feed Transport System</u>	<u>24.38</u>
973			
974	2)	<u>Wet Milling: Inside In-Process</u>	<u>107.26</u>
975		<u>Tanks</u>	
976			
977	3)	<u>Wet Milling: Molten Sulfur Burner</u>	<u>7.01</u>
978		<u>and Absorption System</u>	
979			
980	4)	<u>Wet Milling: Outside In-Process</u>	<u>2.69</u>
981		<u>Tanks</u>	
982			
983	5)	<u>Germ Processing Facility Channel 1</u>	<u>13.3</u>
984		<u>System</u>	
985			
986	6)	<u>Germ Processing Facility Channel 2</u>	<u>7.07</u>
987		<u>System</u>	
988			
989	7)	<u>Germ Processing Facility Channel 3</u>	<u>7.07</u>
990		<u>System</u>	
991			
992	8)	<u>Germ Processing Facility Channel 4</u>	<u>7.07</u>
993		<u>System</u>	
994			
995	d)	<u>Midwest Generation Joliet</u>	<u>lb/hr</u>
996			
997	1)	<u>Joliet 9: Unit 6</u>	<u>189.82</u>

- 998  
 999 2) Joliet 29: Unit 7 323.29  
 1000  
 1001 3) Joliet 29: Unit 8 342.15  
 1002  
 1003 e) Midwest Generation Powerton lb/hr  
 1004  
 1005 1) Boilers 51, 52 (Unit 5) and 61, 62 3452.00  
 1006 (Unit 6) combined  
 1007  
 1008 2) The owner or operator must comply with the emission limitation set forth  
 1009 in subsection (e)(1) on a 30-operating day rolling average basis. For  
 1010 purposes of this Subpart, an operating day is a calendar day in which any  
 1011 emission unit addressed in subsection (e)(1) combusts any fuel;  
 1012  
 1013 3) Within 24 hours after the end of each averaging period, the owner or  
 1014 operator must use the following equation to determine the combined SO<sub>2</sub>  
 1015 emission rate of the emission units addressed in subsection (e)(1) for each  
 1016 averaging period, which concludes at the end of each operating day. The  
 1017 SO<sub>2</sub> emission rate must not exceed the limitation set forth in subsection  
 1018 (e)(1):  
 1019

$$E_{avg} = \frac{\sum_{h=1}^n E_h}{n}$$

- 1020  
 1021  
 1022 Where:  
 1023 E<sub>avg</sub> = SO<sub>2</sub> emission rate for the averaging period, in lb/hr.  
 1024 E<sub>h</sub> = SO<sub>2</sub> emission rate for stack operating hour "h" in the averaging  
 1025 period. For purposes of this Subpart, a stack operating hour is a  
 1026 clock hour in which valid data is obtained, and in which gases  
 1027 flow through the monitored stack or duct for the emission units  
 1028 addressed in subsection (e)(1) (either for part of the hour or for  
 1029 the entire hour) while at least one of the units is combusting  
 1030 fuel.  
 1031 n = Number of stack operating hours in the averaging period in  
 1032 which valid data is obtained.

- 1033  
 1034 f) Midwest Generation Will County lb/hr

1035			
1036	1)	<u>Unit 3</u>	<u>145.14</u>
1037			
1038	2)	<u>Unit 4</u>	<u>6520.65</u>
1039			
1040	g)	<u>Owens Corning</u>	<u>lb/hr</u>
1041			
1042	1)	<u>Preheater Incinerator System 1, including</u>	<u>44.69</u>
1043		<u>emissions from: Storage Tanks 9, 9A, 10,</u>	
1044		<u>10A, 11, 17, 18, 19, 20, 40, 41, 42, and 43;</u>	
1045		<u>Loading Racks 1, 2, and 9; and Convertors</u>	
1046		<u>10 and 11</u>	
1047			
1048	2)	<u>Preheater Incinerator System 3, including</u>	<u>27.23</u>
1049		<u>emissions from: Convertors 8, 9, 12,</u>	
1050		<u>13, 14, and 15; and Loading Racks 1, 2,</u>	
1051		<u>and 9</u>	
1052			
1053	3)	<u>Regenerative Thermal Oxidizer 3</u>	<u>4.33</u>
1054		<u>controlling: Storage Tanks 27, 28, 31,</u>	
1055		<u>32, 33, 34, 35, and 36</u>	
1056			
1057	4)	<u>Regenerative Thermal Oxidizer 4</u>	<u>6.38</u>
1058		<u>controlling: Storage Tank 98; Loading</u>	
1059		<u>Rack PV1</u>	
1060			
1061	5)	<u>Coating Operations combined</u>	<u>0.15</u>
1062			
1063	h)	<u>Oxbow Midwest Calcining</u>	<u>lb/hr</u>
1064			
1065		<u>All Calcining Units combined</u>	<u>187.00</u>
1066			

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.604 Monitoring and Testing**

- 1071 a) The owner or operator of a source must, for each emission unit at the source that
- 1072 is addressed in Section 214.603, demonstrate compliance with the applicable
- 1073 emission limitations in Section 214.603 via the monitoring and testing
- 1074 requirements set forth in this Section.
- 1075
- 1076 b) The owners or operators of the following sources must, for each emission unit at
- 1077 the source that is addressed in Section 214.603, install, calibrate, maintain, and

- 1078 operate a continuous emissions monitoring system for the measurement of SO<sub>2</sub>  
 1079 emissions in accordance with 40 CFR 75 (except 40 CFR 75.31 through 34),  
 1080 incorporated by reference in Section 214.104, and subsection (d), or utilize an  
 1081 alternative monitoring method available to the emission unit under 40 CFR 75:  
 1082
- 1083 1) Illinois Power Holdings E.D. Edwards;
  - 1084
  - 1085 2) Midwest Generation Joliet;
  - 1086
  - 1087 3) Midwest Generation Powerton; and
  - 1088
  - 1089 4) Midwest Generation Will County.
  - 1090
- 1091 c) The owner or operator of all sources not addressed in subsection (b) must, for  
 1092 each emission unit at the source that is addressed in Section 214.603, either  
 1093 conduct performance testing in accordance with subsection (e) of this Section or  
 1094 install, calibrate, maintain, and operate a continuous emissions monitoring system  
 1095 for the measurement of SO<sub>2</sub> emissions in accordance with 40 CFR 60 or 40 CFR  
 1096 75 (except 40 CFR 75.31 through 34), incorporated by reference in Section  
 1097 214.104, and subsection (d) of this Section.  
 1098
- 1099 d) The owner or operator of a source with an emission unit demonstrating  
 1100 compliance through the use of a continuous emissions monitoring system must  
 1101 comply with the following for each those unit:  
 1102
- 1103 1) If two or more of the emission units addressed in Section 214.603 are  
 1104 served by a common stack, the owner or operator may utilize a single  
 1105 continuous emissions monitoring system for those units;  
 1106
  - 1107 2) If the owner or operator of an emission unit subject to Section 214.604(c)  
 1108 changes the method of demonstrating compliance for that unit from  
 1109 performance testing to use of a continuous emissions monitoring system,  
 1110 the owner or operator must install, calibrate, and begin operating the  
 1111 continuous emissions monitoring system on or before the performance  
 1112 testing deadline determined in accordance with subsection (e)(2); and  
 1113
  - 1114 3) The provisions in 40 CFR 75.31 through 34 regarding missing data  
 1115 substitution must not be used for purposes of demonstrating compliance  
 1116 with the requirements set forth in this Subpart.  
 1117
- 1118 e) The owner or operator of a source with an emission unit demonstrating  
 1119 compliance through performance testing must comply with the following for each

such unit. All testing done pursuant to this Section must be conducted at the owner's or operator's own expense:

- 1) Conduct an initial performance test after January 1, 2015 and prior to January 1, 2017. If the owner or operator of an emission unit subject to Section 214.604(c) changes the method of demonstrating compliance for that unit from use of a continuous emissions monitoring system to performance testing, the owner or operator must demonstrate compliance by conducting an initial performance test prior to discontinuing the continuous emissions monitoring system;
- 2) Conduct subsequent performance tests at least once every 5 years from the date of the last performance test. The date of the initial performance test conducted pursuant to subsection (e)(1) begins the 5-year period;
- 3) Conduct additional performance testing when, in the opinion of the Agency or USEPA, that testing is necessary to demonstrate compliance with the requirements in Section 214.603. The test must be conducted within 90 days after receipt of a notice to test from the Agency or USEPA, unless the notice specifies an alternative testing deadline;
- 4) Submit a testing protocol as described in USEPA's Emission Measurement Center Guideline Document (GD-042), incorporated by reference in Section 214.104, to the Agency at least 45 days prior to a scheduled emissions test, unless that deadline is waived in writing by the Agency;
- 5) Submit a written notification of a scheduled emissions test to the Agency at least 30 days prior to the test date and again 5 days prior to testing, unless those deadlines are waived in writing by the Agency. If, after the 30 days' notice of a test is sent, there is a delay in conducting the test as scheduled (e.g., due to operational problems), the owner or operator must notify the Agency as soon as practicable of the delay, either by providing at least 7 days' notice of the rescheduled test date or by arranging a new test date with the Agency by mutual agreement;
- 6) Conduct each performance test using Method 1, 2, 3, 4, 6, 6A, 6B, 6C, or 19, incorporated by reference in Section 214.104, or other alternative USEPA methods approved by the Agency. Each test must consist of at least 3 separate runs, each lasting a minimum of 60 minutes, and must be conducted during conditions representative of maximum SO<sub>2</sub> emissions. Compliance with the applicable limitation in Section 214.603 must be determined in accordance with 35 Ill. Adm. Code 283;

- 1163 7) If the unit has combusted more than one type of fuel in the prior year, a  
1164 separate performance test is required for each fuel; and  
1165
- 1166 8) Subsequent to each performance test used to demonstrate compliance,  
1167 continue operating the emission unit within the parameters enumerated in  
1168 the testing results submitted to the Agency for each test, and monitor the  
1169 parameters regularly to ensure ongoing compliance.  
1170

1171 (Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
1172

1173 **Section 214.605 Recordkeeping and Reporting**  
1174

- 1175 a) By January 1, 2017, the owner or operator of a source must submit to the Agency  
1176 the following:  
1177
- 1178 1) A certification that the source will be in compliance with the provisions in  
1179 this Subpart by January 1, 2017;  
1180
- 1181 2) For a source with an emission unit demonstrating compliance through  
1182 performance testing:  
1183
- 1184 A) The results of the initial performance test conducted pursuant to  
1185 Section 214.604(e)(1);  
1186
- 1187 B) The calculations necessary to demonstrate that the emission unit  
1188 will be in initial compliance; and  
1189
- 1190 C) A description of the measures the source will take to ensure the  
1191 emission unit continues to operate within the parameters  
1192 enumerated in the testing results submitted to the Agency for each  
1193 test used to demonstrate compliance, including how those  
1194 parameters will ensure ongoing compliance with the applicable  
1195 limitation in Section 214.603 and the specific monitoring  
1196 procedures that will be implemented for each parameter;  
1197
- 1198 3) For a source with an emission unit demonstrating compliance through the  
1199 use of a continuous emissions monitoring system, a certification of the  
1200 installation and operation of the continuous emissions monitoring system  
1201 and the monitoring data necessary to demonstrate that the emission unit  
1202 will be in initial compliance;  
1203
- 1204 4) For a source with an emission unit demonstrating compliance through the  
1205 use of an alternative monitoring method under 40 CFR 75, a description of

1206 the alternative monitoring method being used and the monitoring data  
1207 necessary to demonstrate that the emission unit will be in initial  
1208 compliance; and

1209  
1210 5) A description of the method or methods the source will use to comply with  
1211 all applicable emission limitations in Section 214.603, including a  
1212 description of all control devices used and, for sources with emission units  
1213 demonstrating compliance through performance testing, the operating  
1214 parameters for those devices.

1215  
1216 b) The owner or operator of a source must keep and maintain records that  
1217 demonstrate ongoing compliance with the requirements of this Subpart. The  
1218 records must include the following:

1219  
1220 1) The calendar date of the record;

1221  
1222 2) Reports for all performance tests conducted pursuant to Section  
1223 214.604(e), including the date of the test and the results;

1224  
1225 3) A log of the date, time, nature, and results of all parametric monitoring  
1226 conducted pursuant to Section 214.604(e)(8);

1227  
1228 4) For each SO<sub>2</sub> continuous emissions monitoring system, a log indicating  
1229 any periods when the device was not in service, maintenance and  
1230 inspection activities performed on the device, and all information  
1231 necessary to demonstrate compliance with the monitoring requirements in  
1232 Section 214.604;

1233  
1234 5) The date, time, and duration of any malfunction in the operation of an  
1235 emission unit addressed in Section 214.603 or any SO<sub>2</sub> control equipment  
1236 for that unit, if the malfunction causes an exceedance of any applicable  
1237 emission limitation in Section 214.603, and the date, time, and duration of  
1238 any malfunction in the operation of any SO<sub>2</sub> emissions monitoring  
1239 equipment for that unit. The records must include a description of the  
1240 malfunction, the probable cause of the malfunction, the date and nature of  
1241 the corrective action taken, and any preventative action taken to avoid  
1242 future malfunctions;

1243  
1244 6) A log of all inspections, cleaning, maintenance, and repair activities  
1245 performed on SO<sub>2</sub> control equipment for an emission unit addressed in  
1246 Section 214.603, including the date and nature of those activities. The log  
1247 must indicate any changes made to the control equipment, including  
1248 removal or replacement of the equipment; and

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7) For emission units subject to the emission limitation in Section 214.603(e), the SO<sub>2</sub> emission rate of the units for each averaging period and supporting calculations.

c) Except as otherwise indicated in this Subpart, the owner or operator of a source with an emission unit demonstrating compliance through performance testing must submit the results of all tests conducted pursuant to Section 214.604(e) within 60 days after completion of the test.

d) The owner or operator of a source must notify the Agency at least 30 days prior to changing the method of demonstrating compliance for an emission unit addressed in Section 214.603. The owner or operator must also comply with the following, as applicable:

1) For an emission unit changing the method of demonstrating compliance from performance testing to use of a continuous emissions monitoring system, submit to the Agency a certification of the installation and operation of the continuous emissions monitoring system and the monitoring data necessary to demonstrate compliance. The submittal must be made within 30 days after beginning operation of the continuous emissions monitoring system, and on or before the performance testing deadline determined in accordance with Section 214.604(e)(2);

2) For an emission unit changing the method of demonstrating compliance from use of a continuous emissions monitoring system to performance testing, submit to the Agency the following. The submittal must be made prior to discontinuing operation of the continuous emissions monitoring system:

A) The results of the initial performance test conducted pursuant to Section 214.604(e)(1);

B) The calculations necessary to demonstrate compliance; and

C) A description of the measures the source will take to ensure the emission unit continues to operate within the parameters enumerated in the testing results submitted to the Agency for each test used to demonstrate compliance, including how the parameters will ensure ongoing compliance with the applicable limitation in Section 214.603 and the specific monitoring procedures that will be implemented for each parameter;

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- 3) For an emission unit changing the method of demonstrating compliance from use of a continuous emissions monitoring system to an alternative monitoring method under 40 CFR 75, submit to the Agency a description of the alternative monitoring method being used and the monitoring data necessary to demonstrate compliance. The submittal must be made prior to discontinuing operation of the continuous emissions monitoring system.
  
  - e) The owner or operator of a source must notify the Agency within 30 days after discovery of deviations from any of the requirements in this Subpart or any exceedance of an applicable emission limitation in Section 214.603. At minimum, and in addition to any permitting obligations, the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
  
  - f) The owner or operator of a source must maintain all records required by this Section at the source for a minimum of 5 years, and provide copies of the records to the Agency within 30 days after receipt of a request by the Agency.

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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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 214  
SULFUR LIMITATIONS

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214.100	Scope and Organization
214.101	Measurement Methods
214.102	Abbreviations and Units
214.103	Definitions
214.104	Incorporations by Reference

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

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214.121	Large Sources
214.122	Small Sources

SUBPART C: EXISTING SOLID FUEL COMBUSTION EMISSION SOURCES

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214.140	Scope
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214.142	Small Sources Located Outside Metropolitan Areas
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SUBPART D: EXISTING LIQUID OR MIXED FUEL  
COMBUSTION EMISSION SOURCES

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214.162	Combination of Fuels

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SUBPART E: AGGREGATION OF SOURCES OUTSIDE METROPOLITAN AREAS

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214.186	New Operating Permits

SUBPART F: ALTERNATIVE STANDARDS FOR  
SOURCES INSIDE METROPOLITAN AREAS

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214.202	Dispersion Enhancement Techniques

SUBPART K: PROCESS EMISSION SOURCES

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214.303	Use of Sulfuric Acid
214.304	Fuel Burning Process Emission Source
214.305	Fuel Sulfur Content Limitations

SUBPART O: PETROLEUM REFINING, PETROCHEMICAL  
AND CHEMICAL MANUFACTURING

Section	
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214.382	Petroleum and Petrochemical Processes
214.383	Chemical Manufacturing
214.384	Sulfate and Sulfite Manufacturing

SUBPART P: STONE, CLAY, GLASS AND CONCRETE PRODUCTS

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Section	Scope
214.400	Scope
214.401	Glass Melting and Heat Treating
214.402	Lime Kilns

**SUBPART Q: PRIMARY AND SECONDARY METAL MANUFACTURING**

Section	Scope
214.420	Scope
214.421	Combination of Fuels at Steel Mills in Metropolitan Areas
214.422	Secondary Lead Smelting in Metropolitan Areas
214.423	Slab Reheat Furnaces in St. Louis Area

**SUBPART V: ELECTRIC POWER PLANTS**

Section	Scope
214.521	Winnetka Power Plant

**SUBPART X: UTILITIES**

Section	Scope
214.560	Scope
214.561	E. D. Edwards Electric Generating Station
214.562	Coffeen Generating Station

**SUBPART AA: REQUIREMENTS FOR CERTAIN SO<sub>2</sub> SOURCES**

Section	Scope
214.600	Definitions
214.601	Applicability
214.602	Compliance Deadline
214.603	Emission Limitations
214.604	Monitoring and Testing
214.605	Recordkeeping and Reporting

<a href="#">214.APPENDIX A</a>	Rule into Section Table
<a href="#">214.APPENDIX B</a>	Section into Rule Table
<a href="#">214.APPENDIX C</a>	Method used to Determine Average Actual Stack Height and Effective



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incorporated by reference in Section 214.104(a), or a controlled condensate method approved in writing by the Agency.

- c) Solid Fuel Averaging Measurement Daily Analysis Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity exceeding 439.5 MW (1500 ~~mmBtu~~mmBtu~~millionBtu~~millionBtu/hr). If daily fuel analysis is used to demonstrate compliance or non-compliance with Sections 214.122, 214.141, 214.142(a) 214.162, 214.186 and 214.421, the sulfur dioxide emission rate to be compared to the emission limit shall be considered to be the result of averaging daily samples taken over any consecutive two-month period provided no more than 5 percent of the sample values are greater than 20 percent above the sample average. If samples from a source cannot meet this statistical criterion, each individual daily sample analysis for such source shall be compared to the source's emission limit to determine compliance. The specific ASTM procedures, incorporated by reference in Section 214.104(c), shall be used for solid fuel sampling, sulfur, and heating value determinations.
- d) Weekly Analysis Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity exceeding 146.5 MW (500 ~~mmBtu~~mmBtu~~millionBtu~~millionBtu/hr) but not exceeding 439.5 MW (1500 ~~mmBtu~~mmBtu~~millionBtu~~millionBtu/hr). These plants shall demonstrate compliance or non-compliance with Sections 214.122, 214.141, 214.142(a), 214.162, 214.186 and 214.421 by either an analysis of calendar weekly composites of daily fuel samples or by compliance with subsection (c) above, at the option of the plant. The specific ASTM procedures incorporated by reference in Section 214.104(c), shall be used for sulfur and heating value determinations.
- e) Monthly Analysis Method. This subsection applies to sources at plants with total fuel-fired heat input capacity exceeding 14.65 MW (50 ~~mmBtu~~mmBtu~~millionsBtu~~millionsBtu/hr) but not exceeding 146.5 MW (500 ~~mmBtu~~mmBtu~~millionBtu~~millionBtu/hr). These plants shall demonstrate compliance or non-compliance with Sections 214.122, 214.141, 214.142(a), 214.162, 214.186 and 214.421 by either an analysis of calendar monthly composites of daily fuel samples or by compliance with subsection (c) above, at the option of the plant. ASTM procedures incorporated by reference in Section 214.104(c), shall be used for sulfur and heating value determinations.
- f) Small Source Alternative Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity not exceeding 14.65 MW (50 ~~mmBtu~~mmBtu~~millionBtu~~millionBtu/hr). Compliance or non-compliance with Sections 214.122,

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214.141, 214.142(a), 214.162, 214.186 and 214.421 shall be demonstrated by a calendar month average sulfur dioxide emission rate.

- g) Exemptions. Subsections (c) through (f) shall not apply to sources controlling sulfur dioxide emissions by flue gas desulfurization equipment or by sorbent injection.
- h) Hydrogen Sulfide Measurement. For purposes of determining compliance with Section 214.382(c), the concentration of hydrogen sulfide in petroleum refinery fuel gas shall be measured using the Tutwiler Procedure specified in 40 CFR 60.648, incorporated by reference in Section 214.104(d).

(Source: Amended at 39 Ill. Reg. \_\_\_\_, effective \_\_\_\_\_)

Section 214.102 Abbreviations and Units

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

<del>BTU or btu</del>	<del>British thermal units (60 F)</del>
<del>ft</del>	<del>foot</del>
<del>gr</del>	<del>grains</del>
<del>J</del>	<del>Joule</del>
<del>kg</del>	<del>kilogram</del>
<del>kg/MW-hr</del>	<del>kilograms per megawatt-hour</del>
<del>km</del>	<del>kilometer</del>
<del>lbs</del>	<del>pounds</del>
<del>lbs/mmBtu</del>	<del>pounds per million Btu</del>
<del>m</del>	<del>meter</del>
<del>mg</del>	<del>milligram</del>
<del>Mg</del>	<del>megagram, metric ton or tonne</del>
<del>mi</del>	<del>mile</del>
<del>mmBtu</del>	<del>million British thermal units</del>
<del>mmBtu/hr</del>	<del>million British thermal units per hour</del>
<del>MW</del>	<del>megawatt; one million watts</del>
<del>MW-hr</del>	<del>megawatt-hour</del>
<del>ng</del>	<del>nanogram, one billionth of a gram</del>
<del>ng/J</del>	<del>nanograms per Joule</del>
<del>ppm</del>	<del>parts per million</del>
<del>scf</del>	<del>standard cubic foot</del>



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<u>2.205 lb</u>	<u>1 kg</u>
<u>1 T</u>	<u>0.907 Mg</u>
<u>1 lb/T</u>	<u>0.500 kg/Mg</u>
<u>mmBbtu/hr</u>	<u>0.293 MW</u>
<u>1</u>	<u>1.548 kg/MW-hr</u>
<u>lb/mmBbtu</u>	
<u>1 mi</u>	<u>1.61 km</u>
<u>1 gr/scf</u>	<u>2289 mg/scm</u>

(Source: Amended at 39 Ill. Reg.     , effective     )

**Section 214.103 Definitions**

Unless otherwise indicated, ~~the~~theThe definitions of 35 Ill. Adm. Code 201 and 211 apply to this Part.

(Source: Amended at 39 Ill. Reg.     , effective     )

**Section 214.104 Incorporations by Reference**

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

- a) 40 CFR 60, Appendix A (~~2014~~20141989):
  - 1) Method 1: Sample and Velocity Traverses for Stationary Sources;
  - 2) Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate;
  - 3) Method 3: Gas Analysis for the Determination of Dry Molecular Weight;
  - 4) Method 4: Determination of Moisture Content in Stack Gases;
  - ~~5~~51) Method 6: Determination of Sulfur Dioxide Emissions From Stationary Sources;
  - ~~6~~62) Method 6A: Determination of Sulfur Dioxide, Moisture, and Carbon

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Dioxide Emissions From Fossil Fuel Combustion Sources;

~~773~~) Method 6B: Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions From Fossil Fuel Combustion Sources;

~~884~~) Method 6C: Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure);

~~995~~) Method 8: Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions From Stationary Sources; ~~u~~

10) Method 19: Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates.

b) 40 CFR 60.8(b) (~~2014~~[20141989](#)), Performance Tests.

c) American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103:

1) For solid fuel sampling:

ASTM D-2234 (1989)

ASTM D-2013 (1986)

2) For sulfur determinations:

ASTM D-3177 (1984)

ASTM D-2622 (1987)

ASTM D-3180 (1984)

ASTM D-4239 (1985)

3) For heating value determinations:

ASTM D-2015 (1985)

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ASTM D-3286 (1985)

- d) Tutwiler Procedure for hydrogen sulfide, 40 CFR 60.648 (~~2014~~20141989).
- e) 40 CFR 75 (2014).
- f) USEPA's Emission Measurement Center Guideline Document (GD-042), Preparation and Review of Site-Specific Emission Test Plans, Revised March ~~1999~~1999.

(Source: Amended at 39 Ill. Reg.     , effective     )

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

**Section 214.121 Large Sources**

This ~~section~~Section applies to new fuel combustion emission sources with actual heat input greater than 73.2 MW (250 ~~mmBtu~~mmBtu/hr).

- a) Solid Fuel Burned Exclusively. No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion emission source greater than 73.2 MW (250 ~~mmBtu~~mmBtu/hr), burning solid fuel exclusively, to exceed 1.86 kg of sulfur dioxide per MW-hr of actual heat input (1.2 lbs/~~mmBtu~~mmBtu).

~~(Board~~ BOARD NOTE ~~Board~~ Note: This ~~section~~Section was invalidated in Commonwealth Edison v. PCB, 25 Ill. App. 3d 271, 62 Ill.2d 494, 43 N.E.2d 459, 323 N.E. 2d 84, Ashland Chemical Corp. v. PCB, 64 Ill. App.3d 169, and Illinois State Chamber of Commerce v. PCB, 67 Ill. App.3d 839, 384 N.E.2d 922, 78 Ill.2d 1, 398 N.E.2d 9.)

- b) Liquid Fuel Burned Exclusively.
  - 1) Prior to January 1, 2017, ~~no~~No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion emission source with actual heat input greater than 73.2 MW (250 ~~mmBtu~~mmBtu/hr), burning liquid fuel exclusively, to exceed the following:

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- A1) To exceed 1.2 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (0.8 lbs/~~mmBtu~~mmBbtu); and
  - B2) To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/~~mmBtu~~mmBbtu);
- 2) On and after January 1, 2017, the owner or operator of a new fuel combustion emission source with actual heat input greater than 73.2 MW (250 mmBtu/hr), burning liquid fuel exclusively, must comply with the following:
- A) The sulfur content of all residual fuel oil used by the fuel combustion emission source must not exceed 1000 ppm:
  - B) The sulfur content of all distillate fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and
  - C) The owner or operator must:
    - i) Maintain records demonstrating that the fuel oil used by the fuel combustion emission source complies with the requirements in subsections (b)(2)(A) and (b)(2)(B) ~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - ii) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency; and
    - iii) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (b)(2). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and ~~any~~any preventative measures taken.

(Source: Amended at 39 Ill. Reg.       , effective       )

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**Section 214.122 Small Sources**

This ~~section~~[Section](#)[section](#) applies to new fuel combustion emission sources with actual heat input smaller than, or equal to, 73.2 MW (250 ~~mmBtu~~[mmBtu](#)/hr).

- a) Solid Fuel Burned Exclusively. No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion source with actual heat input smaller than, or equal to, 73.2 MW (250 ~~mmBtu~~[mmBtu](#)/hr), burning solid fuel exclusively, to exceed 2.79 kg of sulfur dioxide per MW-hr of actual heat input (1.8 lbs/~~mmBtu~~[mmBtu](#)).
- b) Liquid Fuel Burned Exclusively.
  - 1) Prior to January 1, 2017, ~~no~~[No](#) person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion emission source with actual heat input smaller than, or equal to, 73.2 MW (250 ~~mmBtu~~[mmBtu](#)/hr), burning liquid fuel exclusively, to exceed the following:
    - A1) [To exceed](#) 1.55 kg of sulfur dioxide per MW-hr of actual heat input when residential fuel oil is burned (~~1.00.8~~[1.00.8](#) lbs/~~mmBtu~~[mmBtu](#)); and
    - B2) [To exceed](#) 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/~~mmBtu~~[mmBtu](#)).
  - 2) On and after January 1, 2017, the owner or operator of a new fuel combustion emission source with actual heat input smaller than, or equal to, 73.2 MW (250 ~~mmBtu~~[mmBtu](#)/hr), burning liquid fuel exclusively, must comply with the following:
    - A) The sulfur content of all residual fuel oil used by the fuel combustion emission source must not exceed 1000 ppm;
    - B) The sulfur content of all distillate fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and
    - C) The owner or operator must:

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- i) Maintain records demonstrating that the fuel oil used by the fuel combustion emission source complies with the requirements in subsections (b)(2)(A) and (b)(2)(B) ~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
- ii) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~ after receipt of a request by the Agency; and
- iii) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (b)(2). At minimum, and in addition to any permitting obligations, ~~such~~ the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.

(Source: Amended at 39 Ill. Reg. ~~—~~ \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART D: EXISTING LIQUID OR MIXED FUEL  
COMBUSTION EMISSION SOURCES

**Section 214.161 Liquid Fuel Burned Exclusively**

- a) Prior to January 1, 2017, no No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any existing fuel combustion emission source, burning liquid fuel exclusively, to exceed the following:
  - 1a) To exceed 1.55 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (1.0 lbs/~~mmBtu~~ mmBtu); and
  - 2b) To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/~~mmBtu~~ mmBtu).

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- b) Except as provided in subsections (c), (d), and ~~€ of this Section(e)~~, on and after January 1, 2017, the owner or operator of an existing fuel combustion emission source, burning liquid fuel exclusively, must comply with the following:
- 1) The sulfur content of all residual fuel oil used by the ~~fu-el~~fuel combustion emission source must not exceed 1000 ppm;
  - 2) The sulfur content of all distillate ~~fu-el~~fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and
  - 3) The owner or operator must:
    - A) Maintain records demonstrating that the fuel oil used by the fuel combustion emission source complies with the requirements in subsections (b)(1) and (b)(2)-of this Section, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - B) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency; and
    - C) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (b). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- c) The sulfur content limitation for distillate fuel oil in subsection (b)(2)-of this Section does not apply to existing electric generating units at Midwest Generation's Joliet station (located at or near 1800 Channahon Road, Joliet, IL), Powerton station (located at or near 13082 E. Manito Road, Pekin, IL), Waukegan station (located at or near 401 East E. Greenwood Avenue, Waukegan, IL), and Will County station (located at or near 529 East E. 135<sup>th</sup>, Romeoville, IL). The owner or operator of such electric generating units must instead comply with the following:

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- 1) From January 1, ~~2016,2016~~ through December 31, 2018, the sulfur content of all distillate fuel oil purchased for use by such electric generating units must not exceed 15 ppm;
- 2) From January 1, ~~2017,2017~~ through December 31, 2018, the sulfur content of all distillate fuel oil used by such electric generating units must not exceed 500 ppm;
- 3) On and after January 1, 2019, the sulfur content of all distillate fuel oil used by such electric generating units must not exceed 15 ppm;
  - 4) The owner or operator must:
    - A) Maintain records demonstrating that the distillate fuel oil purchased from January 1, ~~2016,2016~~ through December 31, ~~2018,2018~~ for use by the electric generating units complies with the requirements in subsection (c)(1)-~~of this Section~~, including the date of purchase and records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - B) Maintain records demonstrating that the distillate fuel oil used from January 1, ~~2017,2017~~ through December 31, ~~2018,2018~~ by the electric generating units, complies with the requirements in subsection (c)(2)-~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - C) On and after January 1, 2019, maintain records demonstrating that the distillate fuel oil used by the electric generating units complies with the requirements in subsection (c)(3)-~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - D) Retain all records required by this subsection (c) for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency; and

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- E) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (c). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken;
  - ~~45)~~ Maintain records indicating the amount of distillate fuel oil used by the fuel combustion emission sources each calendar year for purposes of research and development or testing of equipment for sale outside of Illinois, as well as records demonstrating that such fuel oil complies with the requirements in this subsection (c), including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
  - ~~26)~~ Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency; and
  - ~~37)~~ Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (c). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- d) The sulfur content limitation for distillate fuel oil in subsection (b)(2) ~~of this Section~~ does not apply to existing fuel combustion emission sources at Caterpillar's Montgomery facility (located at or near 325 South Route 31, Montgomery, IL). The owner or operator of ~~such~~the fuel combustion emission sources must instead comply with the following:
- 1) On and after January 1, 2016:
    - A) The sulfur content of all distillate fuel oil purchased for use by the fuel combustion emission sources must not exceed 15 ppm; and
    - B) The sulfur content of all distillate fuel oil used by the fuel combustion emission sources must not exceed 500 ppm;
  - 2) The owner or operator must:

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- A) Maintain records demonstrating that the distillate fuel oil purchased on and after January 1, ~~2016~~, 2016 for use by the fuel combustion emission sources complies with the requirements in subsection (d)(1)(A) ~~of this Section~~, including the date of purchase and records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
- B) Maintain records demonstrating that the distillate fuel oil used on and after January 1, ~~2016~~, 2016 by the fuel combustion emission sources complies with the requirements in subsection (d)(1)(B) ~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
- C) Retain all records required by this subsection (d) for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~ after receipt of a request by the Agency; and
- D) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (d). At minimum, and in addition to any permitting obligations, ~~such~~ the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.

(Source: Amended at 39 Ill. Reg. ~~—~~ \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.162 Combination of Fuels**

- a) No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any fuel combustion emission source burning simultaneously any combination of solid, liquid and gaseous fuels to exceed the allowable emission rate determined by the following equation:

$$E = \cancel{SSHS} + \cancel{SdHd} + \cancel{SRHR}$$

$$E = S_sH_s + S_dH_d + S_rH_r$$

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b) Symbols in the equation mean the following:

~~E = allowable sulfur dioxide emission rate;~~

~~SS = solid fuel sulfur dioxide emission standard which is applicable;~~

~~S<sub>d</sub> = distillate oil sulfur dioxide emission standard determined from the table in subsection (d);~~

~~SR = residual fuel oil sulfur dioxide emission standard which is applicable;~~

~~HS = actual heat input from solid fuel;~~

~~H<sub>d</sub> = actual heat input from distillate fuel oil;~~

~~HR = actual heat input from residual fuel oil;~~

E    ≡ allowable sulfur dioxide emission rate;  
S<sub>S</sub>   ≡ solid fuel sulfur dioxide emission standard which is applicable;  
S<sub>d</sub>   ≡ distillate oil sulfur dioxide emission standard determined from the table in subsection (d);  
S<sub>R</sub>   ≡ residual fuel oil sulfur dioxide emission standard;  
H<sub>S</sub>   ≡ actual heat input from solid fuel;  
H<sub>d</sub>   ≡ actual heat input from distillate fuel oil;  
H<sub>R</sub>   ≡ actual heat input from residual fuel oil.;

c) That portion of the actual heat input that is derived:

- 1) From the burning of gaseous fuels produced by the gasification of solid fuels shall be included in H<sub>S</sub>;
- 2) From the burning of gaseous fuels produced by the gasification of distillate fuel oil shall be included in H<sub>d</sub>;
- 3) From the burning of gaseous fuels produced by the gasification of residual fuel oil shall be included in H<sub>R</sub>;

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- 4) From the burning of gaseous fuels produced by the gasification of any other liquid fuel shall be included in H<sub>R</sub>; and,
  - 5) From the burning of by-product gases such as those produced from a blast furnace or a catalyst regeneration unit in a petroleum refinery shall be included in H<sub>R</sub>.
- d) Metric or English units may be used in the equation of subsection (a) as follows:

Parameter	Metric	English
E	kg/hr	lbs/hr
S <sub>S</sub> , S <sub>R</sub>	kg/MW-hr	lbs/ <del>mmBtu</del> <u>mmBbtu</u> 0.3 lbs/ <del>mmBtu</del>
S <sub>d</sub> prior to January 1, 2017	0.46 kg/MW-hr	<del>0.0015-</del> <del>lb/mmBtu</del> <u>mmBbt</u>
<del>S<sub>d</sub> on and after January 1, 2017</del>	<del>0.023 kg/MW-hr</del>	<u>u</u>
<u>S<sub>d</sub> on and after January 1, 2017</u>	<u>0.023 kg/MW-hr</u>	<u>0.0015 lb/mmBtu</u>
H <sub>S</sub> , H <sub>d</sub> , H <sub>R</sub>	MW	<del>mmBtu/hr</del> <u>mmBbtu</u>

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART F: ALTERNATIVE STANDARDS FOR SOURCES INSIDE METROPOLITAN AREAS

**Section 214.201 Alternative Standards for Sources in Metropolitan Areas**

Any owner or operator of an existing fuel combustion emission source located in the Chicago, St. Louis (Illinois) or Peoria major metropolitan areas may petition the Board for approval of an alternate emission rate specified in emissions of pounds of sulfur dioxide per ~~mmBtu of~~mmBbtu or actual heat input for any such fuel combustion emission source, up to a maximum of 6.8 pounds of sulfur dioxide per ~~mmBtu~~mmBbtu of actual heat input (10.5 kg/MW-hr). Such person shall prove in an adjudicative hearing before the Board that the proposed emission rate will not, under predictable worst case conditions cause or contribute to a violation of any applicable primary or secondary sulfur dioxide ambient air quality standard or of any applicable prevention of significant deterioration increment. An emission rate approved pursuant to this Section shall be a substitute for that standard otherwise required by this Part. Nothing in this Section,

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however, excuses a source subject to Subpart AA ~~of this Part~~ from complying with the requirements set forth in ~~such that~~ Subpart.

- a) Every owner or operator of an existing fuel combustion emission source so petitioning the Board for approval of an emission standard shall follow the applicable procedures described in 35 Ill. Adm. Code, Subtitle A, Chapter I.
- b) Any emission standard so approved shall be included as a condition in operating permits issued pursuant to 35 Ill. Adm. Code 201. Any owner or operator of a fuel combustion emission source who receives Board approval of such an emission standard shall apply to the Agency within 30 days ~~of~~ after approval of ~~such that~~ such standard for a revision of its operating permit for ~~such the~~ such source.
- c) No owner or operator of an existing fuel combustion emission source shall seek such an exemption or comply with the emission standard so granted by the use of dispersion enhancement techniques referred to in Section 214.202.

(Source: Amended at 39 Ill. Reg.              , effective              )

**SUBPART K: PROCESS EMISSION SOURCES**

**Section 214.300 Scope**

Subpart K contains general rules for sulfur emissions from process sources. These may be modified by industry and site specific rules in other Subparts ~~of this Part~~ et seq. Subpart K also contains sulfur content limitations for fuel oil used by process emission sources. These sulfur content limitations apply regardless of industry and site specific rules set forth in other Subparts of this Part.

(Source: Amended at 39 Ill. Reg.              , effective              )

**Section 214.301 General Limitation**

Except as further provided by this Part, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to ~~exceed~~ excess 2000 ppm on a dry basis, when averaged over a one-hour period.

(Source: Amended at 39 Ill. Reg.              , effective              )

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**Section 214.305 Fuel Sulfur Content Limitations**

- a) Except as provided in subsections (b), (c), and (d) ~~of this Section~~, on and after January 1, ~~2017~~, [2017](#) the owner or operator of a process emission source must comply with the following:
- 1) The sulfur content of all residual fuel oil used by the process emission source must not exceed 1000 ppm;
  - 2) The sulfur content of all distillate fuel oil used by the process emission source must not exceed 15 ppm; and
  - 3) The owner or operator must:
    - A) Maintain records demonstrating that the fuel oil used by the process emission source complies with the requirements in subsections (a)(1) and (a)(2) ~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
    - B) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~ [after](#) receipt of a request by the Agency; and
    - C) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (a). At minimum, and in addition to any permitting obligations, such notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- b) The sulfur content limitation for distillate fuel oil in subsection (a)(2) ~~of this Section~~ does not apply to distillate fuel oil used by "TC-F/TC-L/TCL Wing 5" and "TC-F/TC-L Alternative" at Caterpillar ~~Inc.~~ Technical Center (located at or near 1311 ~~East~~ [E.](#) Cedar Hills Dr., Mossville, IL) for purposes of research and development or testing of equipment intended for sale outside of Illinois. This exemption is limited to a combined total of 150,000 gallons of distillate fuel oil per calendar year. The sulfur content of ~~such~~ [the](#) fuel oil must not exceed 500

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ppm. The owner or operator of the process emission sources described ~~above~~ in this subsection must also comply with the following:

- 1) Maintain records indicating the amount of distillate fuel oil used by the process emission sources each calendar year for purposes of research and development or testing of equipment for sale outside of Illinois, as well as records demonstrating that ~~such~~ fuel oil complies with the requirements in this subsection (b), including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
  - 2) Retain the records for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~ after receipt of a request by the Agency; and
  - 3) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (b). At minimum, and in addition to any permitting obligations, ~~such~~ the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- c) The sulfur content limitation for distillate fuel oil in subsection (a)(2) ~~of this Section~~ does not apply to existing process emission sources at Caterpillar's<sup>2</sup> Montgomery facility (located at or near 325 South Route 31, Montgomery, IL). The owner or operator of ~~such~~ the process emission sources must instead comply with the following:
- 1) On and after January 1, 2016:
    - A) The sulfur content of all distillate fuel oil purchased for use by the process emission sources must not exceed 15 ppm; and
    - B) The sulfur content of all distillate fuel oil used by the process emission sources must not exceed 500 ppm;
  - 2) The owner or operator must:
    - A) Maintain records demonstrating that the distillate fuel oil purchased on and after January 1, ~~2016,~~ 2016 for use by the process emission sources complies with the requirements in subsection

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- (c)(1)(A) of this Section, including the date of purchase and records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
- B) Maintain records demonstrating that the distillate fuel oil used on and after January 1, ~~2016~~,2016 by the process emission sources complies with the requirements in subsection (c)(1)(B) ~~of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
- C) Retain all records required by this subsection (c) for at least 5 years, and provide copies of the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency; and
- D) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (c). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- d) The sulfur content limitation for distillate fuel oil in subsection (a)(2) ~~of this Section~~ does not apply to existing electric generating units at Midwest Generation's Fisk station (located at or near 1111 W. Cermak Road, Chicago, IL) or Waukegan station (located at or near 401 ~~East~~E. Greenwood Avenue, Waukegan, IL). The owner or operator of ~~such~~these electric generating units must instead comply with the following:
- 1) From January 1, ~~2016~~,2016 through December 31, 2018, the sulfur content of all distillate fuel oil purchased for use by ~~such~~the electric generating units must not exceed 15 ppm;
  - 2) From January 1, ~~2017~~,2017 through December 31, 2018, the sulfur content of all distillate fuel oil used by ~~such~~the electric generating units must not exceed 500 ppm;
  - 3) On and after January 1, 2019, the sulfur content of all distillate fuel oil used by ~~such~~the electric generating units must not exceed 15 ppm;

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- 4) The owner or operator must:
- A) Maintain records demonstrating that the distillate fuel oil purchased from January 1, ~~2016,2016~~ through December 31, ~~2018,2018~~ for use by the electric generating units complies with the requirements in subsection (d)(1)~~-of this Section~~, including the date of purchase and records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
  - B) Maintain records demonstrating that the distillate fuel oil used from January 1, ~~2017,2017~~ through December 31, ~~2018,2018~~ by the electric generating units complies with the requirements in subsection (d)(2)~~-of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
  - C) On and after January 1, 2019, maintain records demonstrating that the distillate fuel oil used by the electric generating units complies with the requirements in subsection (d)(3)~~-of this Section~~, including records from the fuel supplier indicating the sulfur content of the fuel oil and the method used to determine sulfur content;
  - D) Retain all records required by this subsection (d) for at least 5 years, and provide copies of the records to the Agency within 30 days of receipt ~~of~~after a request by the Agency; and
  - E) Notify the Agency within 30 days after discovery of deviations from any of the requirements in this subsection (d). At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.

(Source: Added at 39 Ill. Reg.     , effective     )

SUBPART Q: PRIMARY AND SECONDARY

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METAL MANUFACTURING

Section 214.421 Combination of Fuels at Steel Mills in Metropolitan Areas

- a) Section 214.162 notwithstanding, no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any existing fuel combustion emission source at a steel mill located in the Chicago or St. Louis (Illinois) major metropolitan area burning any solid, liquid or gaseous fuel, or any combination thereof, to exceed the allowable emission rate determined by the following equation:

$$E = S_s H_s + S_d H_d + S_R H_R + S_G H_G$$

- b) Symbols in the equation mean the following:

~~E = allowable sulfur dioxide emission rate;~~  
~~S<sub>s</sub> = solid fuel sulfur dioxide emission standard which is applicable;~~  
~~S<sub>d</sub> = distillate oil sulfur dioxide emission standard determined from the table in subsection (d);~~  
~~S<sub>R</sub> = residual oil sulfur dioxide emission standard which is applicable;~~  
~~S<sub>G</sub> = maximum by-product gas sulfur dioxide emissions which would result if the applicable by-product gas which was burned had been burned alone at any time during the 12 months preceding the latest operation, on or before March 28, 1983, of an emission source using any by-product gas.~~  
~~H<sub>s</sub> = actual heat input from solid fuel;~~  
~~H<sub>d</sub> = actual heat input from distillate fuel oil;~~  
~~H<sub>R</sub> = actual heat input from residual fuel oil;~~  
~~H<sub>G</sub> = actual heat input from by-product gases, such as those produced from a blast furnace.~~

E ≡ allowable sulfur dioxide emission rate;  
S<sub>s</sub> ≡ solid fuel sulfur dioxide emission standard which is applicable;  
S<sub>d</sub> ≡ distillate oil sulfur dioxide emission standard determined from the table in subsection (d);  
S<sub>R</sub> ≡ residual oil sulfur dioxide emission standard which is applicable;  
S<sub>G</sub> ≡ maximum by-product gas sulfur dioxide emissions which would result if the applicable by-product gas which was burned had been burned alone at any time during the 12 months preceding the latest operation.

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on or before March 28, 1983, of an emission source using any by-product gas:  
H<sub>s</sub> ≡ actual heat input from solid fuel;  
H<sub>d</sub> ≡ actual heat input from distillate fuel oil;  
H<sub>R</sub> ≡ actual heat input from residual fuel oil;  
H<sub>G</sub> ≡ actual heat input from by-product gases, such as those produced from a blast furnace.

- c) That portion of the actual heat input that is derived:
- 1) From the burning of gaseous fuels produced by the gasification of solid fuels shall be included in H<sub>s</sub>;
  - 2) From the burning of gaseous fuels produced by the gasification of distillate fuel oil shall be included in H<sub>d</sub>;
  - 3) From the burning of gaseous fuels produced by the gasification of residual fuel oil shall be included in H<sub>R</sub>; and
  - 4) From the burning of gaseous fuels produced by the gasification of any other liquid fuel shall be included in H<sub>G</sub>.

d) ~~⊕~~ Metric or English units may be used in the equation of subsection (a) as follows:

<u>Parameter</u>	<u>Metric</u>	<u>English</u>
E	kg/hr	lbs/hr
S <sub>s</sub> , S <sub>R</sub> , S <sub>G</sub>	kg/MW-hr	lbs/ <del>mmBtu</del> <u>mmBbtu</u> 0.3 lbs/ <del>mmBtu</del>
S <sub>d</sub> prior to January 1, 2017	0.46 kg/MW-hr	<del>0.0015-</del>
<del>S<sub>d</sub> on and after January 1, 2017</del>	<del>0.023 kg/MW-hr</del>	<del>lb/mmBtu</del> <u>mmBbtu</u>
<u>S<sub>d</sub> on and after January 1, 2017</u>	<u>0.023 kg/MW-hr</u>	<u>0.0015 lb/mmBtu</u> <del>mmBtu/hr</del> <u>mmBbtu</u>
H <sub>s</sub> , H <sub>d</sub> , H <sub>R</sub> , H <sub>G</sub>	MW	<u>u</u>

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(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

SUBPART AA: REQUIREMENTS FOR CERTAIN SO<sub>2</sub> SOURCES

**Section 214.600 Definitions**

For purposes of this Subpart, the following definitions apply. Unless a different meaning for a term is clear from its context, all terms not defined in this Section have the ~~meaning~~meanings given to them in the Illinois Environmental Protection Act and in 35 Ill. Adm. Code 201 and 211.

"Agency" means the Illinois Environmental Protection Agency.

"Aventine Renewable Energy" means the ethanol production source located at or near 1300 ~~South~~S. 2<sup>nd</sup> Street, Pekin, IL.

"~~Illinois Power Holdings E.D. Edwards~~" means the electrical power generation source located at or near 7800 ~~South~~S. Cilco Lane, Bartonville, IL.

"Ingredion Bedford Park" means the corn wet milling source located at or near 6400 ~~South~~S. Archer Road, Bedford Park, IL.

"Midwest Generation Joliet" means the electrical power generation source located at or near 1800 Channahon Road, Joliet, IL.

"Midwest Generation Powerton" means the electrical power generation source located at or near 13082 E. Manito Road, Pekin, IL.

"Midwest Generation Will County" means the electrical power generation source located at or near 529 ~~East~~E. 135<sup>th</sup>, Romeoville, IL.

"Owens Corning" means the asphalt and roofing products manufacturing source located at or near 5824 ~~South~~S. Archer Road, Summit, IL.

"Oxbow Midwest Calcining" means the petroleum coke product source located at or near 12308 S. New Avenue, Lemont, IL.

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 214.601 Applicability**

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The owner or operator of a source must comply with the following emission limitations, as applicable, expressed in terms of pounds of SO<sub>2</sub> emitted per clock hour.

a)	Aventine Renewable Energy	lb/hr
1)	Cyclone East controlling First Germ Drying System	0.27
2)	Cyclone West controlling First Germ Drying System	0.37
3)	Second Germ Drying System	0.01
4)	Gluten Dryer 4	3.12
5)	Gluten Dryer 9	10.50
6)	Germ Dryer 1	4.98
7)	Germ Dryer 3	4.26
8)	Yeast Dryer	1.50
9)	Scrubber controlling Steep Acid Tower	1.79
10)	Biogas Flare	0.001
11)	Boiler A	0.00
12)	Boiler B	0.00
13)	Boiler C	0.00
b)	<u>Illinois Power Holdings E.D. Edwards</u>	lb/hr
1)	Units 1 and 2 combined	2100.00
2)	Unit 3	2756.00

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	3)	Unit 3, if both Units 1 and 2 permanently shut down	4000.00
c)		Ingredion Bedford Park	lb/hr
	1)	Feed Transport System	24.38
	2)	Wet Milling: Inside In-Process Tanks	107.26
	3)	Wet Milling: Molten Sulfur Burner and Absorption System	7.01
	4)	Wet Milling: Outside In-Process Tanks	2.69
	5)	Germ Processing Facility Channel 1 System	13.3
	6)	Germ Processing Facility Channel 2 System	7.07
	7)	Germ Processing Facility Channel 3 System	7.07
	8)	Germ Processing Facility Channel 4 System	7.07
d)		Midwest Generation Joliet	lb/hr
	1)	Joliet 9: Unit 6	189.82
	2)	Joliet 29: Unit 7	323.29
	3)	Joliet 29: Unit 8	342.15
e)		Midwest Generation Powerton	lb/hr

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- 1) Boilers 51, 52 (Unit 5) and 61, 62 (Unit 6) combined 3452.00
- 2) The owner or operator must comply with the emission limitation set forth in subsection (e)(1) ~~of this Section~~ on a 30-operating day rolling average basis. For purposes of this Subpart, an operating day is a calendar day in which any emission unit addressed in subsection (e)(1) ~~of this Section~~ combusts any fuel;
- 3) Within 24 hours ~~of~~ after the end of each averaging period, the owner or operator must use the following equation to determine the combined SO<sub>2</sub> emission rate of the emission units addressed in subsection (e)(1) ~~of this Section~~ for each averaging period, which concludes at the end of each operating day. The SO<sub>2</sub> emission rate must not exceed the limitation set forth in subsection (e)(1) ~~of this Section~~:

$$E_{avg} = \frac{\sum_{h=1}^n E_h}{n}$$

Where:

$E_{avg}$  = SO<sub>2</sub> emission rate for the averaging period, in lb/hr.

$E_h$  = SO<sub>2</sub> emission rate for stack operating hour "h" in the averaging period. For purposes of this Subpart, a stack operating hour is a clock hour in which valid data is obtained, and in which gases flow through the monitored stack or duct for the emission units addressed in subsection (e)(1) ~~of this Section~~ (either for part of the hour or for the entire hour) while at least one of the units is combusting fuel.

$n$  = Number of stack operating hours in the averaging period in which valid data is obtained.

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f)	Midwest Generation Will County	lb/hr
1)	Unit 3	145.14
2)	Unit 4	6520.65
g)	Owens Corning	lb/hr
1)	Preheater Incinerator System 1, including emissions from: Storage Tanks 9, 9A, <del>10</del> <u>10</u> , 10A, 11, 17, 18, 19, 20, 40, 41, 42, and 43; Loading Racks 1, 2, and 9; and Convertors 10 and 11	44.69
2)	Preheater Incinerator System 3, including emissions from: Convertors 8, 9, 12, 13, 14, and 15; and Loading Racks 1, 2, and 9	27.23
3)	Regenerative Thermal Oxidizer 3 controlling: Storage Tanks 27, 28, 31, 32, 33, 34, 35, and 36	4.33
4)	Regenerative Thermal Oxidizer 4 controlling: Storage Tank 98; Loading Rack PV1	6.38
5)	Coating Operations combined	0.15
h)	Oxbow Midwest Calcining	lb/hr
	All Calcining Units combined	187.00

(Source: Added at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Section 214.604 Monitoring and Testing

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- a) The owner or operator of a source must, for each emission unit at the source that is addressed in Section ~~214.603 of this Subpart,~~[214.603](#), demonstrate compliance with the applicable emission limitations in Section 214.603 ~~of this Subpart~~ via the monitoring and testing requirements set forth in this Section.
- b) The owners or operators of the following sources must, for each emission unit at the source that is addressed in Section ~~214.603 of this Subpart,~~[214.603](#), install, calibrate, maintain, and operate a continuous emissions monitoring system for the measurement of SO<sub>2</sub> emissions in accordance with 40 CFR 75 (except 40 CFR 75.31-~~through~~ 34), incorporated by reference in Section ~~214.104 of this Part,~~[214.104](#), and subsection (d) ~~of this Section~~, or utilize an alternative monitoring method available to the emission unit under 40 CFR 75:
  - 1) Illinois Power Holdings E.D. Edwards;
  - 2) Midwest Generation Joliet;
  - 3) Midwest Generation Powerton; and
  - 4) Midwest Generation Will County.
- c) The owner or operator of all sources not addressed in subsection (b) ~~of this Section~~ must, for each emission unit at the source that is addressed in Section ~~214.603 of this Subpart,~~[214.603](#), either conduct performance testing in accordance with subsection (e) of this Section or install, calibrate, maintain, and operate a continuous emissions monitoring system for the measurement of SO<sub>2</sub> emissions in accordance with 40 CFR 60 or 40 CFR 75 (except 40 CFR 75.31-~~through~~ 34), incorporated by reference in Section ~~214.104 of this Part,~~[214.104](#), and subsection (d) of this Section.
- d) The owner or operator of a source with an emission unit demonstrating compliance through the use of a continuous emissions monitoring system must comply with the following for each ~~such~~[those](#) unit:
  - 1) If two or more of the emission units addressed in Section 214.603 ~~of this Subpart~~ are served by a common stack, the owner or operator may utilize a single continuous emissions monitoring system for ~~such~~[those](#) units;

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- 2) If the owner or operator of an emission unit subject to Section 214.604(c) ~~of this Subpart~~ changes the method of demonstrating compliance for ~~such that~~ unit from performance testing to use of a continuous emissions monitoring system, the owner or operator must install, calibrate, and begin operating the continuous emissions monitoring system on or before the performance testing deadline determined in accordance with subsection (e)(2) ~~of this Section~~; and
  - 3) The provisions in 40 CFR 75.31- ~~through~~ 34 regarding missing data substitution must not be used for purposes of demonstrating compliance with the requirements set forth in this Subpart.
- e) The owner or operator of a source with an emission unit demonstrating compliance through performance testing must comply with the following for each such unit. All testing done pursuant to this Section must be conducted at the owner's or operator's own expense:
- 1) Conduct an initial performance test after January 1, ~~2015, 2015~~ and prior to January 1, 2017. If the owner or operator of an emission unit subject to Section 214.604(c) ~~of this Subpart~~ changes the method of demonstrating compliance for ~~such that~~ unit from use of a continuous emissions monitoring system to performance testing, the owner or operator must demonstrate compliance by conducting an initial performance test prior to discontinuing the continuous emissions monitoring system;
  - 2) Conduct subsequent performance tests at least once every 5 years from the date of the last performance test. The date of the initial performance test conducted pursuant to subsection (e)(1) ~~of this Section~~ begins the 5-year period;
  - 3) Conduct additional performance testing when, in the opinion of the Agency or USEPA, ~~such that~~ testing is necessary to demonstrate compliance with the requirements in Section ~~214.603 of this Subpart.~~ ~~Such 214.603.~~ The test must be conducted within 90 days after receipt of a notice to test from the Agency or USEPA, unless the notice specifies an alternative testing deadline;
  - 4) Submit a testing protocol as described in USEPA's Emission Measurement Center Guideline Document (GD-042), incorporated by

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reference in Section ~~214.104 of this Part~~, [214.104](#), to the Agency at least 45 days prior to a scheduled emissions test, unless ~~such~~that deadline is waived in writing by the Agency;

- 5) Submit a written notification of a scheduled emissions test to the Agency at least 30 days prior to the test date and again 5 days prior to testing, unless ~~such~~those deadlines are waived in writing by the Agency. If, after the 30 days' notice of a test is sent, there is a delay in conducting the test as scheduled (e.g., due to operational problems), the owner or operator must notify the Agency as soon as practicable of the delay, either by providing at least 7 days' notice of the rescheduled test date or by arranging a new test date with the Agency by mutual agreement;
- 6) Conduct each performance test using ~~Methods~~Method 1, 2, 3, 4, 6, 6A, 6B, 6C, or 19, incorporated by reference in Section ~~214.104 of this Part~~, [214.104](#), or other alternative USEPA methods approved by the Agency. Each test must consist of at least 3 separate runs, each lasting a minimum of 60 minutes, and must be conducted during conditions representative of maximum SO<sub>2</sub> emissions. Compliance with the applicable limitation in Section 214.603 ~~of this Subpart~~ must be determined in accordance with 35 Ill. Adm. Code 283;
- 7) If the unit has combusted more than one type of fuel in the prior year, a separate performance test is required for each fuel; and
- 8) Subsequent to each performance test used to demonstrate compliance, continue operating the emission unit within the parameters enumerated in the testing results submitted to the Agency for ~~such~~each test, and monitor the parameters regularly to ensure ongoing compliance.

(Source: Added at 39 Ill. Reg.     , effective     )

**Section 214.605 Recordkeeping and Reporting**

- a) By January 1, 2017, the owner or operator of a source must submit to the Agency the following:
  - 1) A certification that the source will be in compliance with the provisions in this Subpart by January 1, 2017;

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- 2) For a source with an emission unit demonstrating compliance through performance testing:
  - A) The results of the initial performance test conducted pursuant to Section 214.604(e)(1) ~~of this Subpart~~;
  - B) The calculations necessary to demonstrate that the emission unit will be in initial compliance; and
  - C) A description of the measures the source will take to ensure the emission unit continues to operate within the parameters enumerated in the testing results submitted to the Agency for each test used to demonstrate compliance, including how ~~such~~those parameters will ensure ongoing compliance with the applicable limitation in Section 214.603 ~~of this Subpart~~ and the specific monitoring procedures that will be implemented for each parameter;
- 3) For a source with an emission unit demonstrating compliance through the use of a continuous emissions monitoring system, a certification of the installation and operation of the continuous emissions monitoring system and the monitoring data necessary to demonstrate that the emission unit will be in initial compliance;
- 4) For a source with an emission unit demonstrating compliance through the use of an alternative monitoring method under 40 CFR 75, a description of the alternative monitoring method being used and the monitoring data necessary to demonstrate that the emission unit will be in initial compliance; and
- 5) A description of the method~~(s)~~ or methods the source will use to comply with all applicable emission limitations in Section ~~214.603 of this Subpart, 214.603,~~ including a description of all control devices used and, for sources with emission units demonstrating compliance through performance testing, the operating parameters for ~~such~~those devices.

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- b) The owner or operator of a source must keep and maintain records that demonstrate ongoing compliance with the requirements of this Subpart. ~~Such~~The records must include the following:
- 1) The calendar date of the record;
  - 2) Reports for all performance tests conducted pursuant to Section 214.604(e)-~~of this Subpart~~, including the date of the test and the results;
  - 3) A log of the date, time, nature, and results of all parametric monitoring conducted pursuant to Section 214.604(e)(8)-~~of this Subpart~~;
  - 4) For each SO<sub>2</sub> continuous emissions monitoring system, a log indicating any periods when the device was not in service, maintenance and inspection activities performed on the device, and all information necessary to demonstrate compliance with the monitoring requirements in Section 214.604-~~of this Subpart~~;
  - 5) The date, time, and duration of any malfunction in the operation of an emission unit addressed in Section 214.603-~~of this Subpart~~ or any SO<sub>2</sub> control equipment for ~~such~~that unit, if ~~such~~the malfunction causes an exceedance of any applicable emission limitation in Section ~~214.603 of this Subpart~~,214.603, and the date, time, and duration of any malfunction in the operation of any SO<sub>2</sub> emissions monitoring equipment for ~~such~~that unit. The records must include a description of the malfunction, the probable cause of the malfunction, the date and nature of the corrective action taken, and any preventative action taken to avoid future malfunctions;
  - 6) A log of all inspections, cleaning, maintenance, and repair activities performed on SO<sub>2</sub> control equipment for an emission unit addressed in Section ~~214.603 of this Subpart~~,214.603, including the date and nature of ~~such~~those activities. ~~Such~~The log must indicate any changes made to the control equipment, including removal or replacement of the equipment; and
  - 7) For emission units subject to the emission limitation in Section 214.603(e)-~~of this Subpart~~, the SO<sub>2</sub> emission rate of the units for each averaging period and supporting calculations.

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- c) Except as otherwise indicated in this Subpart, the owner or operator of a source with an emission unit demonstrating compliance through performance testing must submit the results of all tests conducted pursuant to Section 214.604(e) ~~of this Subpart~~ within 60 days after completion of the test.
- d) The owner or operator of a source must notify the Agency at least 30 days prior to changing the method of demonstrating compliance for an emission unit addressed in Section ~~214.603 of this Subpart~~ [214.603](#). The owner or operator must also comply with the following, as applicable:
  - 1) For an emission unit changing the method of demonstrating compliance from performance testing to use of a continuous emissions monitoring system, submit to the Agency a certification of the installation and operation of the continuous emissions monitoring system and the monitoring data necessary to demonstrate compliance. ~~Such~~ The submittal must be made within 30 days after beginning operation of the continuous emissions monitoring system, and on or before the performance testing deadline determined in accordance with Section 214.604(e)(2) ~~of this Subpart~~;
  - 2) For an emission unit changing the method of demonstrating compliance from use of a continuous emissions monitoring system to performance testing, submit to the Agency the following. ~~Such~~ The submittal must be made prior to discontinuing operation of the continuous emissions monitoring system:
    - A) The results of the initial performance test conducted pursuant to Section 214.604(e)(1) ~~of this Subpart~~;
    - B) The calculations necessary to demonstrate compliance; and
    - C) A description of the measures the source will take to ensure the emission unit continues to operate within the parameters enumerated in the testing results submitted to the Agency for each test used to demonstrate compliance, including how ~~such~~ the parameters will ensure ongoing compliance with the applicable limitation in Section 214.603 ~~of this Subpart~~ and the specific

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monitoring procedures that will be implemented for each parameter;

- 3) For an emission unit changing the method of demonstrating compliance from use of a continuous emissions monitoring system to an alternative monitoring method under 40 CFR 75, submit to the Agency a description of the alternative monitoring method being used and the monitoring data necessary to demonstrate compliance. ~~Such~~The submittal must be made prior to discontinuing operation of the continuous emissions monitoring system.
- e) The owner or operator of a source must notify the Agency within 30 days after discovery of deviations from any of the requirements in this Subpart or any exceedance of an applicable emission limitation in Section ~~214.603 of this Subpart.214.603.~~ At minimum, and in addition to any permitting obligations, ~~such~~the notification must include a description of the deviations, a discussion of the possible cause of the deviations, any corrective actions taken, and any preventative measures taken.
- f) The owner or operator of a source must maintain all records required by this Section at the source for a minimum of 5 years, and provide copies of ~~such~~the records to the Agency within 30 days ~~of~~after receipt of a request by the Agency.

(Source: Added at 39 Ill. Reg.         , effective         )

Document comparison by Workshare Compare on Monday, May 18, 2015  
9:19:28 AM

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Document 2 ID	file:///I:\Input\Agency Rulemakings - Files Received\2015\05May2015\35-214-r01(issue 21).docx
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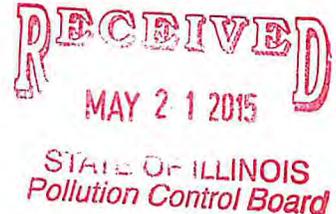
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Moved to	0
Style change	0
Format changed	0
Total changes	661

## POLLUTION CONTROL BOARD

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

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
217.342	Amendment
217.394	Amendment
- 4) Statutory Authority: Sections 4, 10, 27, 28, and 28.2 of the Illinois Environmental Protection Act [415 ILCS 5/4, 10, 27, 28, 28.2]
- 5) A Complete Description of the Subjects and Issues Involved: The Agency proposes revisions to Part 217 that electric generating units subject to the combined pollutant standard are exempt from the nitrogen oxide emission limitations in Subpart M of Part 217, regardless of the type of fuel combusted. The Agency also proposes an alternate testing deadline regarding the initial performance testing provisions in Section 217.394(a)(3).
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: Consistent with proposed amendments to 35 Ill. Adm. Code 214 and 225; and 42 USC 7502, 7514, 7515a.
- 7) Will this rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? No
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)]
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the *Illinois Register*. Public comments must be filed with the Clerk of the Board. Public comments should reference Docket R15-21 and be addressed to:



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

Public comments may also be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

Interested persons may request copies of the Board's opinion and order in R15-21 by calling the Clerk's office at 312/814-3620, or may download copies from the Board's Web site at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

For more information, contact hearing officer Daniel Robertson at 312/814-6931 or by e-mail at [Daniel.Robertson@illinois.gov](mailto:Daniel.Robertson@illinois.gov).

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not-for-profit corporations affected: Any small business, small municipality or not-for-profit corporation that is an electric generating unit subject to the combined pollutant standard.
  - B) Reporting, bookkeeping or other procedures required for compliance: None
  - C) Types of Professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on a regulatory agenda.

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

1 TITLE 35: ENVIRONMENTAL PROTECTION  
2 SUBTITLE B: AIR POLLUTION  
3 CHAPTER I: POLLUTION CONTROL BOARD  
4 SUBCHAPTER c: EMISSION STANDARDS AND LIMITATIONS  
5 FOR STATIONARY SOURCES  
6

7 PART 217  
8 NITROGEN OXIDES EMISSIONS  
9

10 SUBPART A: GENERAL PROVISIONS  
11

- 12 Section  
13 217.100 Scope and Organization  
14 217.101 Measurement Methods  
15 217.102 Abbreviations and Units  
16 217.103 Definitions  
17 217.104 Incorporations by Reference  
18

19 SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES  
20

- 21 Section  
22 217.121 New Emission Sources (Repealed)  
23

24 SUBPART C: EXISTING FUEL COMBUSTION EMISSION UNITS  
25

- 26 Section  
27 217.141 Existing Emission Units in Major Metropolitan Areas  
28

29 SUBPART D: NO<sub>x</sub> GENERAL REQUIREMENTS  
30

- 31 Section  
32 217.150 Applicability  
33 217.152 Compliance Date  
34 217.154 Performance Testing  
35 217.155 Initial Compliance Certification  
36 217.156 Recordkeeping and Reporting  
37 217.157 Testing and Monitoring  
38 217.158 Emissions Averaging Plans  
39

40 SUBPART E: INDUSTRIAL BOILERS  
41

- 42 Section  
43 217.160 Applicability

- 44 217.162 Exemptions
- 45 217.164 Emissions Limitations
- 46 217.165 Combination of Fuels
- 47 217.166 Methods and Procedures for Combustion Tuning

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49 SUBPART F: PROCESS HEATERS

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51 Section

- 52 217.180 Applicability
- 53 217.182 Exemptions
- 54 217.184 Emissions Limitations
- 55 217.185 Combination of Fuels
- 56 217.186 Methods and Procedures for Combustion Tuning

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58 SUBPART G: GLASS MELTING FURNANCES

59

60 Section

- 61 217.200 Applicability
- 62 217.202 Exemptions
- 63 217.204 Emissions Limitations

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65 SUBPART H: CEMENT AND LIME KILNS

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67 Section

- 68 217.220 Applicability
- 69 217.222 Exemptions
- 70 217.224 Emissions Limitations

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72 SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING

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74 Section

- 75 217.240 Applicability
- 76 217.242 Exemptions
- 77 217.244 Emissions Limitations

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79 SUBPART K: PROCESS EMISSION SOURCES

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81 Section

- 82 217.301 Industrial Processes

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84 SUBPART M: ELECTRICAL GENERATING UNITS

85

86 Section

87	217.340	Applicability
88	217.342	Exemptions
89	217.344	Emissions Limitations
90	217.345	Combination of Fuels
91		
92		SUBPART O: CHEMICAL MANUFACTURE
93		
94	Section	
95	217.381	Nitric Acid Manufacturing Processes
96		
97		SUBPART Q: STATIONARY RECIPROCATING
98		INTERNAL COMBUSTION ENGINES AND TURBINES
99		
100	Section	
101	217.386	Applicability
102	217.388	Control and Maintenance Requirements
103	217.390	Emissions Averaging Plans
104	217.392	Compliance
105	217.394	Testing and Monitoring
106	217.396	Recordkeeping and Reporting
107		
108		SUBPART T: CEMENT KILNS
109		
110	Section	
111	217.400	Applicability
112	217.402	Control Requirements
113	217.404	Testing
114	217.406	Monitoring
115	217.408	Reporting
116	217.410	Recordkeeping
117		
118		SUBPART U: NO <sub>x</sub> CONTROL AND TRADING PROGRAM FOR
119		SPECIFIED NO <sub>x</sub> GENERATING UNITS
120		
121	Section	
122	217.450	Purpose
123	<u>217.451</u>	<u>Sunset Provisions</u>
124	217.452	Severability
125	217.454	Applicability
126	217.456	Compliance Requirements
127	217.458	Permitting Requirements
128	217.460	Subpart U NO <sub>x</sub> Trading Budget
129	217.462	Methodology for Obtaining NO <sub>x</sub> Allocations



173 217.782 Allowance Allocations to Budget Opt-In Units

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

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177 Section

178 217.800 Purpose

179 217.805 Emission Unit Eligibility

180 217.810 Participation Requirements

181 217.815 NO<sub>x</sub> Emission Reductions and the Subpart X NO<sub>x</sub> Trading Budget

182 217.820 Baseline Emissions Determination

183 217.825 Calculation of Creditable NO<sub>x</sub> Emission Reductions

184 217.830 Limitations on NO<sub>x</sub> Emission Reductions

185 217.835 NO<sub>x</sub> Emission Reduction Proposal

186 217.840 Agency Action

187 217.845 Emissions Determination Methods

188 217.850 Emissions Monitoring

189 217.855 Reporting

190 217.860 Recordkeeping

191 217.865 Enforcement

192

193 217.APPENDIX A Rule into Section Table

194 217.APPENDIX B Section into Rule Table

195 217.APPENDIX C Compliance Dates

196 217.APPENDIX D Non-Electrical Generating Units

197 217.APPENDIX E Large Non-Electrical Generating Units

198 217.APPENDIX F Allowances for Electrical Generating Units

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

201 217.APPENDIX H Compliance Dates for Certain Emissions Units at Petroleum Refineries

202

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

205

206 SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23,  
207 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101,  
208 effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128,  
209 effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001;  
210 amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-  
211 18 at 31 Ill. Reg. 14271, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg. 11999,  
212 effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13345, effective August 31, 2009;  
213 amended in R09-20 at 33 Ill. Reg. 15754, effective November 2, 2009; amended in R11-17 at 35  
214 Ill. Reg. 7391, effective April 22, 2011; amended in R11-24 at 35 Ill. Reg. 14627, effective  
215 August 22, 2011; amended in R11-08 at 35 Ill. Reg. 16600, effective September 27, 2011;

216 amended in R09-19 at 35 Ill. Reg. 18801, effective October 25, 2011; amended in R15-21 at 39  
217 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

218

219

SUBPART M: ELECTRICAL GENERATING UNITS

220

221

**Section 217.342 Exemptions**

222

223

- a) Notwithstanding Section 217.340, the provisions of 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.

224

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228

- b) Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a coal-fired stationary boiler that commenced operation before January 1, 2008, that is complying with 35 Ill. Adm. Code 225.Subpart B through the multi-pollutant standard or the combined pollutant standard.

229

230

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233

- c) Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a fossil fuel-fired stationary boiler that is subject to any of the requirements in the combined pollutant standard in 35 Ill. Adm. Code 225.Subpart B (Sections 225.291 through 225.299), regardless of the type of fossil fuel combusted.

234

235

236

237

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

238

239

240

SUBPART Q: STATIONARY RECIPROCATING  
INTERNAL COMBUSTION ENGINES AND TURBINES

241

242

243

**Section 217.394 Testing and Monitoring**

244

245

- a) An owner or operator must conduct an initial performance test pursuant to subsection (c)(1) or (c)(2) of this Section as follows:

246

247

248

- 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(a)(2).

249

250

251

252

253

- 2) By the applicable compliance date set forth in Section 217.392, or within the first 876 hours of operation per calendar year, whichever is later:

254

255

256

- A) For affected units not listed in Appendix G that operate more than 876 hours per calendar year; and

257

258

- 259 B) For units that are not affected units that are included in an  
260 emissions averaging plan and operate more than 876 hours per  
261 calendar year.  
262
- 263 3) Once within the five-year period after the applicable compliance date as  
264 set forth in Section 217.392 or once within the five-year period following  
265 the date the unit commenced operation:  
266
- 267 A) For affected units that operate fewer than 876 hours per calendar  
268 year; and  
269
- 270 B) For units that are not affected units that are included in an  
271 emissions averaging plan and that operate fewer than 876 hours per  
272 calendar year.  
273
- 274 b) An owner or operator of an engine or turbine must conduct subsequent  
275 performance tests pursuant to subsection (b)(1), (b)(2), and (b)(3) of this Section  
276 as follows:  
277
- 278 1) For affected engines listed in Appendix G and all units included in an  
279 emissions averaging plan, once every five years. Testing must be  
280 performed in the calendar year by May 1 or within 60 days after starting  
281 operation, whichever is later;  
282
- 283 2) If the monitored data shows that the unit is not in compliance with the  
284 applicable emissions concentration or emissions averaging plan, the owner  
285 or operator must report the deviation to the Agency in writing within 30  
286 days and conduct a performance test pursuant to subsection (c) of this  
287 Section within 90 days of the determination of noncompliance; and  
288
- 289 3) When, in the opinion of the Agency or USEPA, it is necessary to conduct  
290 testing to demonstrate compliance with Section 217.388, the owner or  
291 operator of a unit must, at his or her own expense, conduct the test in  
292 accordance with the applicable test methods and procedures specified in  
293 this Section within 90 days after receipt of a notice to test from the  
294 Agency or USEPA.  
295
- 296 c) Testing Procedures:  
297
- 298 1) For an engine: The owner or operator must conduct a performance test  
299 using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by  
300 reference in Section 217.104. Each compliance test must consist of three  
301 separate runs, each lasting a minimum of 60 minutes. NO<sub>x</sub> emissions must

302 be measured while the affected unit is operating at peak load. If the unit  
 303 combusts more than one type of fuel (gaseous or liquid), including backup  
 304 fuels, a separate performance test is required for each fuel.  
 305

306 2) For a turbine: The owner or operator must conduct a performance test  
 307 using the applicable procedures and methods in 40 CFR 60.4400, as  
 308 incorporated by reference in Section 217.104.  
 309

310 d) Monitoring: Except for those years in which a performance test is conducted  
 311 pursuant to subsection (a) or (b) of this Section, the owner or operator of an  
 312 affected unit or a unit included in an emissions averaging plan must monitor NO<sub>x</sub>  
 313 concentrations annually, once between January 1 and May 1 or within the first  
 314 876 hours of operation per calendar year, whichever is later. If annual operation  
 315 is less than 876 hours per calendar year, each affected unit must be monitored at  
 316 least once every five years. Monitoring must be performed as follows:  
 317

318 1) A portable NO<sub>x</sub> monitor utilizing method ASTM D6522-00, as  
 319 incorporated by reference in Section 217.104, or a method approved by  
 320 the Agency must be used. If the engine or turbine combusts both liquid  
 321 and gaseous fuels as primary or backup fuels, separate monitoring is  
 322 required for each fuel.  
 323

324 2) NO<sub>x</sub> and O<sub>2</sub> concentrations measurements must be taken three times for a  
 325 duration of at least 20 minutes. Monitoring must be done at highest  
 326 achievable load. The concentrations from the three monitoring runs must  
 327 be averaged to determine whether the affected unit is in compliance with  
 328 the applicable emissions concentration or emissions averaging plan, as  
 329 specified in Section 217.388.  
 330

331 e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of  
 332 this Section, an owner or operator may install and operate a CEMS on an affected  
 333 unit that meets the applicable requirements of 40 CFR 60, subpart A and appendix  
 334 B, or 40 CFR 75, incorporated by reference in Section 217.104, and complies  
 335 with the quality assurance procedures specified in 40 CFR 60, appendix F or 40  
 336 CFR 75, as incorporated by reference in Section 217.104, or an alternate  
 337 procedure as approved by the Agency or USEPA in a federally enforceable  
 338 permit. The CEMS must be used to demonstrate compliance with the applicable  
 339 emissions concentration or emissions averaging plan only on an ozone season and  
 340 annual basis.  
 341

342 f) The testing and monitoring requirements of this Section do not apply to affected  
 343 units in compliance with the requirements of the low usage limitations pursuant to  
 344 Section 217.388(a)(3) or low usage units using NO<sub>x</sub> allowances to comply with

345 the requirements of this Subpart pursuant to Section 217.392(c), unless such units  
346 are included in an emissions averaging plan. Notwithstanding the above  
347 circumstances, when, in the opinion of the Agency or USEPA, it is necessary to  
348 conduct testing to demonstrate compliance with Section 217.388, the owner or  
349 operator of a unit must, at his or her own expense, conduct the test in accordance  
350 with the applicable test methods and procedures specified in this Section within  
351 90 days after receipt of a notice to test from the Agency or USEPA.  
352

353 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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

PART 217  
NITROGEN OXIDES EMISSIONS

SUBPART A: GENERAL PROVISIONS

Section

~~Section~~

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

SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

Section

- 217.121 New Emission Sources (Repealed)

SUBPART C: EXISTING FUEL COMBUSTION EMISSION UNITS

Section

- 217.141 Existing Emission Units in Major Metropolitan Areas

SUBPART D: NOx GENERAL REQUIREMENTS

Section

- 217.150 Applicability
- 217.152 Compliance Date
- 217.154 Performance Testing
- 217.155 Initial Compliance Certification
- 217.156 Recordkeeping and Reporting
- 217.157 Testing and Monitoring
- 217.158 Emissions Averaging Plans

SUBPART E: INDUSTRIAL BOILERS

Section

- 217.160 Applicability
- 217.162 Exemptions
- 217.164 Emissions Limitations
- 217.165 Combination of Fuels
- 217.166 Methods and Procedures for Combustion Tuning

SUBPART F: PROCESS HEATERS

Section

217.180 Applicability  
217.182 Exemptions  
217.184 Emissions Limitations  
217.185 Combination of Fuels  
217.186 Methods and Procedures for Combustion Tuning

SUBPART G: GLASS MELTING FURNANCES

Section  
217.200 Applicability  
217.202 Exemptions  
217.204 Emissions Limitations

SUBPART H: CEMENT AND LIME KILNS

Section  
217.220 Applicability  
217.222 Exemptions  
217.224 Emissions Limitations

SUBPART I: IRON AND STEEL AND ALUMINUM MANUFACTURING

Section  
217.240 Applicability  
217.242 Exemptions  
217.244 Emissions Limitations

SUBPART K: PROCESS EMISSION SOURCES

Section  
217.301 Industrial Processes

SUBPART M: ELECTRICAL GENERATING UNITS

Section  
217.340 Applicability  
217.342 Exemptions  
217.344 Emissions Limitations  
217.345 Combination of Fuels

SUBPART O: CHEMICAL MANUFACTURE

Section  
217.381 Nitric Acid Manufacturing Processes

SUBPART Q: STATIONARY RECIPROCATING  
INTERNAL COMBUSTION ENGINES AND TURBINES

Section  
217.386 Applicability  
217.388 Control and Maintenance Requirements  
217.390 Emissions Averaging Plans

217.392 Compliance  
217.394 Testing and Monitoring  
217.396 Recordkeeping and Reporting

SUBPART T: CEMENT KILNS

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

SUBPART U: NOx CONTROL AND TRADING PROGRAM FOR  
SPECIFIED NOx GENERATING UNITS

Section  
217.450 Purpose  
217.451 Sunset Provisions  
217.452 Severability  
217.454 Applicability  
217.456 Compliance Requirements  
217.458 Permitting Requirements  
217.460 Subpart U NOx Trading Budget  
217.462 Methodology for Obtaining NOx Allocations  
217.464 Methodology for Determining NOx Allowances from the New  
Source Set-Aside  
217.466 NOx Allocations Procedure for Subpart U Budget Units  
217.468 New Source Set-Asides for "New" Budget Units  
217.470 Early Reduction Credits (ERCs) for Budget Units  
217.472 Low-Emitter Requirements  
217.474 Opt-In Units  
217.476 Opt-In Process  
217.478 Opt-In Budget Units: Withdrawal from NOx 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 NOx Averaging  
217.710 Monitoring  
217.712 Reporting and Recordkeeping

SUBPART W: NOx TRADING PROGRAM FOR  
ELECTRICAL GENERATING UNITS

Section	Purpose
217.750	Purpose
217.751	Sunset Provisions
217.752	Severability
217.754	Applicability
217.756	Compliance Requirements
217.758	Permitting Requirements
217.760	NOx Trading Budget
217.762	Methodology for Calculating NOx Allocations for Budget
Electrical	Generating Units (EGUs)
217.764	NOx Allocations for Budget EGUs
217.768	New Source Set-Asides for "New" Budget EGUs
217.770	Early Reduction Credits for Budget EGUs
217.774	Opt-In Units
217.776	Opt-In Process
217.778	Budget Opt-In Units: Withdrawal from NOx Trading Program
217.780	Opt-In Units: Change in Regulatory Status
217.782	Allowance Allocations to Budget Opt-In Units

SUBPART X: VOLUNTARY NOx EMISSIONS REDUCTION PROGRAM

Section	Purpose
217.800	Purpose
217.805	Emission Unit Eligibility
217.810	Participation Requirements
217.815	NOx Emission Reductions and the Subpart X NOx Trading Budget
217.820	Baseline Emissions Determination
217.825	Calculation of Creditable NOx Emission Reductions
217.830	Limitations on NOx Emission Reductions
217.835	NOx Emission Reduction Proposal
217.840	Agency Action
217.845	Emissions Determination Methods
217.850	Emissions Monitoring
217.855	Reporting
217.860	Recordkeeping
217.865	Enforcement

217.APPENDIX A	Rule into Section Table
217.APPENDIX B	Section into Rule Table
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	Existing Reciprocating Internal Combustion Engines
Affected by the NOx SIP Call	
217.APPENDIX H	Compliance Dates for Certain Emissions Units at
	Petroleum Refineries

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~~SOURCE: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. ~~14254, 14271~~, effective September 25, 2007; amended in R07-19 at 33 Ill. Reg. 11999, effective August 6, 2009; amended in R08-19 at 33 Ill. Reg. 13345, effective August 31, 2009; amended in R09-20 at 33 Ill. Reg. 15754, effective November 2, 2009; amended in R11-17 at 35 Ill. Reg. 7391, effective April 22, 2011; amended in R11-24 at 35 Ill. Reg. 14627, effective August 22, 2011; amended in R11-08 at 35 Ill. Reg. 16600, effective September 27, 2011; amended in R09-19 at 35 Ill. Reg. 18801, effective October 25, 2011; amended in R15-21 at 39 Ill. Reg. ~~---~~ ---, effective ---.

#### SUBPART M: ELECTRICAL GENERATING UNITS

##### Section 217.342 Exemptions

- a) Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a fossil fuel-fired stationary boiler operating under a federally enforceable limit of NOx emissions from such boiler to less than 15 tons per year and less than five tons per ozone season.
- b) Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a coal-fired stationary boiler that commenced operation before January 1, 2008, that is complying with 35 Ill. Adm. Code 225.Subpart B through the multi-pollutant standard.
- c) Notwithstanding Section 217.340, the provisions of this Subpart do not apply to a fossil fuel-fired stationary boiler that is subject to any of the requirements in the combined pollutant standard in 35 Ill. Adm. Code 225.Subpart B (Sections 225.291 through 225.299), regardless of the type of fossil fuel combusted.

(Source: Amended at 39 Ill. Reg. ~~---~~ ---, effective ---)

#### SUBPART Q: STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES AND TURBINES

##### 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(a)(2).

2) By the applicable compliance date set forth in Section 217.392, or within the first 876 hours of operation per calendar year, whichever is later:

A) For affected units not listed in Appendix G that operate more than 876 hours per calendar year; and

B) For units that are not affected units that are included in an emissions averaging plan and operate more than 876 hours per calendar year.

3) Once within the five-year period after the applicable compliance date as set forth in Section 217.392 or once within the five-year period following the date the unit commenced operation:

A) For affected units that operate fewer than 876 hours per calendar year; and

B) For units that are not affected units that are included in an emissions averaging plan and that operate fewer than 876 hours per calendar year.

b) An owner or operator of an engine or turbine must conduct subsequent performance tests pursuant to subsection (b)(1), (b)(2), and (b)(3) of this Section as follows:

1) For affected engines listed in Appendix G and all units included in an emissions averaging plan, once every five years. Testing must be performed in the calendar year by May 1 or within 60 days after starting operation, whichever is later;

2) If the monitored data shows that the unit is not in compliance with the applicable emissions concentration or emissions averaging plan, the owner or operator must report the deviation to the Agency in writing within 30 days and conduct a performance test pursuant to subsection (c) of this Section within 90 days of the determination of noncompliance; and

3) When, in the opinion of the Agency or USEPA, it is necessary to conduct testing to demonstrate compliance with Section 217.388, the owner or operator of a unit must, at his or her own expense, conduct the test in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Agency or USEPA.

c) Testing Procedures:

1) For an engine: The owner or operator must conduct a performance test using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by

reference in Section 217.104. Each compliance test must consist of three separate runs, each lasting a minimum of 60 minutes. NOx emissions must be measured while the affected unit is operating at peak load. If the unit combusts more than one type of fuel (gaseous or liquid), including backup fuels, a separate performance test is required for each fuel.

2) For a turbine: The owner or operator must conduct a performance test using the applicable procedures and methods in 40 CFR 60.4400, as incorporated by reference in Section 217.104.

d) Monitoring: Except for those years in which a performance test is conducted pursuant to subsection (a) or (b) of this Section, the owner or operator of an affected unit or a unit included in an emissions averaging plan must monitor NOx concentrations annually, once between January 1 and May 1 or within the first 876 hours of operation per calendar year, whichever is later. If annual operation is less than 876 hours per calendar year, each affected unit must be monitored at least once every five years. Monitoring must be performed as follows:

1) A portable NOx monitor utilizing method ASTM D6522-00, as incorporated by reference in Section 217.104, or a method approved by the Agency must be used. If the engine or turbine combusts both liquid and gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.

2) NOx and O2 concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan, as specified in Section 217.388.

e) Instead of complying with the requirements of subsections (a), (b), (c) and (d) of this Section, an owner or operator may install and operate a CEMS on an affected unit that meets the applicable requirements of 40 CFR 60, subpart A and appendix B, or 40 CFR 75, 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.

f) The testing and monitoring requirements of this Section do not apply to affected units in compliance with the requirements of the low usage limitations pursuant to Section 217.388(a)(3) or low usage units using NOx allowances to comply with the requirements of this Subpart pursuant to Section 217.392(c), unless such units are included in an emissions averaging plan. Notwithstanding the above circumstances, when, in the opinion of the Agency or USEPA, it is necessary to conduct

testing to demonstrate compliance with Section 217.388, the owner or operator of a unit must, at his or her own expense, conduct the test in accordance with the applicable test methods and procedures specified in this Section within 90 days after receipt of a notice to test from the Agency or USEPA.

(Source: Amended at 39 Ill. Reg.          , effective       
    )

~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

JCAR350217-1507164r01

Document comparison by Workshare Compare on Monday, May 18, 2015  
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Input:	
Document 1 ID	file:///I:\Input\Agency Rulemakings - Files Received\2015\05May2015\35-217-Agency Proposed Delta-(issue 21).docx
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Split/Merged cell	
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Moved from	0
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Format changed	0
Total changes	18

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Control of Emissions from Large Combustion Sources
- 2) Code Citation: 35 Ill. Adm. Code 225
- 3) 

<u>Section Numbers:</u>	<u>Proposed Actions:</u>
225.205	Amendment
225.210	Amendment
225.240	Amendment
225.265	Amendment
225.290	Amendment
225.291	Amendment
225.292	Amendment
225.293	Amendment
225.294	Amendment
225.295	Amendment
225.296	Amendment
225.298	Amendment
225.APPENDIX A	Amendment
- 4) Statutory Authority: Sections 4, 10, 27, 28, and 28.2 of the Illinois Environmental Protection Act [415 ILCS 5/4, 10, 27, 28, 28.2]
- 5) A Complete Description of the Subjects and Issues Involved: The Agency proposes amendments to address the potential conversion of specific electric generating units (EGUs) and specifying the nitrogen oxide limitations that will be applicable to these units. The proposal will require specified units to permanently cease combusting coal. The proposal also amends Part 225 to specify that EGUs that permanently cease combusting coal are no longer required to comply with the mercury or particulate matter control technology requirements set forth in the combined pollutant standard (CPS) or the mercury-related emission rates, monitoring, recordkeeping, notice, analysis, certification, or reporting requirements set forth in the Illinois Mercury Rule/CPS. The proposal also specifies that EGUs that convert to fuel other than coal are not subject to the CPS group average annual sulfur dioxide emission rate set forth in Section 225.295(b) of the CPS.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: Consistent with proposed amendments to 35 Ill. Adm. Code 214 and 217; and 42 USC 7502, 7514, 7515a.
- 7) Will these rulemaking replace an emergency rule currently in effect? No


  
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 MAY 21 2015  
 STATE OF ILLINOIS  
 Pollution Control Board

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENTS

- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this rulemaking contain incorporations by reference? Yes
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)].
- 12) Time, Place and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the *Illinois Register*. Public comments must be filed with the Clerk of the Board. Public comments should reference Docket R15-21 and be addressed to:

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

Public comments may also be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

Interested persons may request copies of the Board's opinion and order in R15-21 by calling the Clerk's office at 312/814-3620, or may download copies from the Board's Web site at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

For more information, contact hearing officer Daniel Robertson at 312/814-6931 or by e-mail at [Daniel.Robertson@illinois.gov](mailto:Daniel.Robertson@illinois.gov).

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not-for-profit corporations affected: Any small business, small municipality or not-for-profit corporation that is an electric generating unit subject to the combined pollutant standard
- B) Reporting, bookkeeping or other procedures required for compliance: None

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- C) Types of professional skills necessary for compliance: None
- 14) Regulatory Agenda on which this rulemaking was summarized: This rulemaking was not included on a regulatory agenda.

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

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

6  
7 PART 225  
8 CONTROL OF EMISSIONS FROM LARGE COMBUSTION SOURCES

9  
10 SUBPART A: GENERAL PROVISIONS

11  
12 Section  
13 225.100 Severability  
14 225.120 Abbreviations and Acronyms  
15 225.130 Definitions  
16 225.140 Incorporations by Reference  
17 225.150 Commence Commercial Operation

18  
19 SUBPART B: CONTROL OF MERCURY EMISSIONS  
20 FROM COAL-FIRED ELECTRIC GENERATING UNITS

21  
22 Section  
23 225.200 Purpose  
24 225.202 Measurement Methods  
25 225.205 Applicability  
26 225.210 Compliance Requirements  
27 225.220 Clean Air Act Permit Program (CAAPP) Permit Requirements  
28 225.230 Emission Standards for EGUs at Existing Sources  
29 225.232 Averaging Demonstrations for Existing Sources  
30 225.233 Multi-Pollutant Standard (MPS)  
31 225.234 Temporary Technology-Based Standard for EGUs at Existing Sources  
32 225.235 Units Scheduled for Permanent Shut Down  
33 225.237 Emission Standards for New Sources with EGUs  
34 225.238 Temporary Technology-Based Standard for New Sources with EGUs  
35 225.239 Periodic Emissions Testing Alternative Requirements  
36 225.240 General Monitoring and Reporting Requirements  
37 225.250 Initial Certification and Recertification Procedures for Emissions Monitoring  
38 225.260 Out of Control Periods and Data Availability for Emission Monitors  
39 225.261 Additional Requirements to Provide Heat Input Data  
40 225.263 Monitoring of Gross Electrical Output  
41 225.265 Coal Analysis for Input Mercury Levels  
42 225.270 Notifications  
43 225.290 Recordkeeping and Reporting

44	225.291	Combined Pollutant Standard: Purpose
45	225.292	Applicability of the Combined Pollutant Standard
46	225.293	Combined Pollutant Standard: Notice of Intent
47	225.294	Combined Pollutant Standard: Control Technology Requirements and Emissions
48		Standards for Mercury
49	225.295	Combined Pollutant Standard: Emissions Standards for NO <sub>x</sub> and SO <sub>2</sub>
50	225.296	Combined Pollutant Standard: Control Technology Requirements for NO <sub>x</sub> , SO <sub>2</sub> ,
51		and PM Emissions
52	225.297	Combined Pollutant Standard: Permanent Shut-Downs
53	225.298	Combined Pollutant Standard: Requirements for NO <sub>x</sub> and SO <sub>2</sub> Allowances
54	225.299	Combined Pollutant Standard: Clean Air Act Requirements

SUBPART C: CLEAN AIR ACT INTERSTATE  
RULE (CAIR) SO<sub>2</sub> TRADING PROGRAM

59	Section	
60	225.300	Purpose
61	225.305	Applicability
62	225.310	Compliance Requirements
63	225.315	Appeal Procedures
64	225.320	Permit Requirements
65	225.325	Trading Program

SUBPART D: CAIR NO<sub>x</sub> ANNUAL TRADING PROGRAM

69	Section	
70	225.400	Purpose
71	225.405	Applicability
72	225.410	Compliance Requirements
73	225.415	Appeal Procedures
74	225.420	Permit Requirements
75	225.425	Annual Trading Budget
76	225.430	Timing for Annual Allocations
77	225.435	Methodology for Calculating Annual Allocations
78	225.440	Annual Allocations
79	225.445	New Unit Set-Aside (NUSA)
80	225.450	Monitoring, Recordkeeping and Reporting Requirements for Gross Electrical
81		Output and Useful Thermal Energy
82	225.455	Clean Air Set-Aside (CASA)
83	225.460	Energy Efficiency and Conservation, Renewable Energy, and Clean Technology
84		Projects
85	225.465	Clean Air Set-Aside (CASA) Allowances
86	225.470	Clean Air Set-Aside (CASA) Applications

87	225.475	Agency Action on Clean Air Set-Aside (CASA) Applications
88	225.480	Compliance Supplement Pool
89		
90		SUBPART E: CAIR NO <sub>x</sub> OZONE SEASON TRADING PROGRAM
91		
92	Section	
93	225.500	Purpose
94	225.505	Applicability
95	225.510	Compliance Requirements
96	225.515	Appeal Procedures
97	225.520	Permit Requirements
98	225.525	Ozone Season Trading Budget
99	225.530	Timing for Ozone Season Allocations
100	225.535	Methodology for Calculating Ozone Season Allocations
101	225.540	Ozone Season Allocations
102	225.545	New Unit Set-Aside (NUSA)
103	225.550	Monitoring, Recordkeeping and Reporting Requirements for Gross Electrical
104		Output and Useful Thermal Energy
105	225.555	Clean Air Set-Aside (CASA)
106	225.560	Energy Efficiency and Conservation, Renewable Energy, and Clean Technology
107		Projects
108	225.565	Clean Air Set-Aside (CASA) Allowances
109	225.570	Clean Air Set-Aside (CASA) Applications
110	225.575	Agency Action on Clean Air Set-Aside (CASA) Applications
111		
112		SUBPART F: COMBINED POLLUTANT STANDARDS
113		
114	225.600	Purpose (Repealed)
115	225.605	Applicability (Repealed)
116	225.610	Notice of Intent (Repealed)
117	225.615	Control Technology Requirements and Emissions Standards for Mercury
118		(Repealed)
119	225.620	Emissions Standards for NO <sub>x</sub> and SO <sub>2</sub> (Repealed)
120	225.625	Control Technology Requirements for NO <sub>x</sub> , SO <sub>2</sub> , and PM Emissions (Repealed)
121	225.630	Permanent Shut-Downs (Repealed)
122	225.635	Requirements for CAIR SO <sub>2</sub> , CAIR NO <sub>x</sub> , and CAIR NO <sub>x</sub> Ozone Season
123		Allowances (Repealed)
124	225.640	Clean Air Act Requirements (Repealed)
125		
126	225.APPENDIX A	Specified EGUs for Purposes of the CPS ( <del>Midwest Generation's</del> Coal-
127		Fired Boilers as of July 1, 2006)
128	225.APPENDIX B	Continuous Emission Monitoring Systems for Mercury
129	225.EXHIBIT A	Specifications and Test Procedures

- 130 225.EXHIBIT B Quality Assurance and Quality Control Procedures
- 131 225.EXHIBIT C Conversion Procedures
- 132 225.EXHIBIT D Quality Assurance and Operating Procedures for Sorbent Trap
- 133 Monitoring Systems
- 134

135 AUTHORITY: Implementing and authorized by Section 27 of the Environmental Protection Act  
136 [415 ILCS 5/27].

137  
138 SOURCE: Adopted in R06-25 at 31 Ill. Reg. 129, effective December 21, 2006; amended in  
139 R06-26 at 31 Ill. Reg. 12864, effective August 31, 2007; amended in R09-10 at 33 Ill. Reg.  
140 10427, effective June 26, 2009; amended in R15-21 at 39 Ill. Reg. \_\_\_\_\_, effective  
141 \_\_\_\_\_.

142  
143 SUBPART B: CONTROL OF MERCURY EMISSIONS  
144 FROM COAL-FIRED ELECTRIC GENERATING UNITS  
145

146 **Section 225.205 Applicability**

147  
148 The following stationary coal-fired boilers and stationary coal-fired combustion turbines, and the  
149 stationary boilers listed in Appendix A, regardless of the type of fuel combusted, are EGUs and  
150 are subject to this Subpart B:

- 151
- 152 a) Except as provided in subsection (b) of this Section, a unit serving, at any time
- 153 since the start-up of the unit's combustion chamber, a generator with nameplate
- 154 capacity of more than 25 MWe producing electricity for sale.
- 155
- 156 b) For a unit that qualifies as a cogeneration unit during the 12-month period starting
- 157 on the date the unit first produces electricity and continues to qualify as a
- 158 cogeneration unit, a cogeneration unit serving at any time a generator with
- 159 nameplate capacity of more than 25 MWe and supplying in any calendar year
- 160 more than one-third of the unit's potential electric output capacity or 219,000
- 161 MWh, whichever is greater, to any utility power distribution system for sale. If a
- 162 unit qualifies as a cogeneration unit during the 12-month period starting on the
- 163 date the unit first produces electricity but subsequently no longer qualifies as a
- 164 cogeneration unit, the unit must be subject to subsection (a) of this Section
- 165 starting on the day on which the unit first no longer qualifies as a cogeneration
- 166 unit.
- 167

168 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

169  
170 **Section 225.210 Compliance Requirements**

- 171
- 172 a) Permit Requirements.

173 The owner or operator of each source with one or more EGUs subject to this  
 174 Subpart B at the source must apply for a CAAPP permit that addresses the  
 175 applicable requirements of this Subpart B.  
 176

177 b) Monitoring and Testing Requirements.

178 1) Except as otherwise indicated in this Subpart, theThe owner or operator of  
 179 each source and each EGU at the source must comply with either the  
 180 monitoring requirements of Sections 225.240 through 225.290 of this  
 181 Subpart B, the periodic emissions testing requirements of Section 225.239  
 182 of this Subpart B, or an alternative emissions monitoring system,  
 183 alternative reference method for measuring emissions, or other alternative  
 184 to the emissions monitoring and measurement requirements of Sections  
 185 225.240 through 225.290, if such alternative is submitted to the Agency in  
 186 writing and approved in writing by the Manager of the Bureau of Air's  
 187 Compliance Section.  
 188

189 2) Except as otherwise indicated in this Subpart, theThe compliance of each  
 190 EGU with the mercury requirements of Sections 225.230 and 225.237 of  
 191 this Subpart B must be determined by the emissions measurements  
 192 recorded and reported in accordance with either Sections 225.240 through  
 193 225.290 of this Subpart B, Section 225.239 of this Subpart B, or an  
 194 alternative emissions monitoring system, alternative reference method for  
 195 measuring emissions, or other alternative to the emissions monitoring and  
 196 measurement requirements of Sections 225.240 through 225.290, if such  
 197 alternative is submitted to the Agency in writing and approved in writing  
 198 by the Manager of the Bureau of Air's Compliance Section.  
 199

200 c) Mercury Emission Reduction Requirements

201 The owner or operator of any EGU subject to this Subpart B must comply with  
 202 applicable requirements for control of mercury emissions of Section 225.230 or  
 203 Section 225.237 of this Subpart B.  
 204

205 d) Recordkeeping and Reporting Requirements

206 Unless otherwise provided, the owner or operator of a source with one or more  
 207 EGUs at the source must keep on site at the source each of the documents listed in  
 208 subsections (d)(1) through (d)(3) of this Section for a period of five years from the  
 209 date the document is created. This period may be extended, in writing by the  
 210 Agency, for cause, at any time prior to the end of five years.  
 211

212 1) All emissions monitoring information gathered in accordance with  
 213 Sections 225.240 through 225.290 and all periodic emissions testing  
 214 information gathered in accordance with Section 225.239.  
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- 2) Copies of all reports, compliance certifications, and other submissions and all records made or required or documents necessary to demonstrate compliance with the requirements of this Subpart B.
- 3) Copies of all documents used to complete a permit application and any other submission under this Subpart B.
- e) Liability.
  - 1) The owner or operator of each source with one or more EGUs must meet the requirements of this Subpart B.
  - 2) Any provision of this Subpart B that applies to a source must also apply to the owner and operator of such source and to the owner or operator of each EGU at the source.
  - 3) Any provision of this Subpart B that applies to an EGU must also apply to the owner or operator of such EGU.
- f) Effect on Other Authorities. No provision of this Subpart B may be construed as exempting or excluding the owner or operator of a source or EGU from compliance with any other provision of an approved State Implementation Plan, a permit, the Act, or the CAA.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.240 General Monitoring and Reporting Requirements**

Except as otherwise indicated in this Subpart, theThe owner or operator of an EGU must comply with the monitoring, recordkeeping, and reporting requirements as provided in this Section, Sections 225.250 through 225.290 of this Subpart B, and Sections 1.14 through 1.18 of Appendix B to this Part. If the EGU utilizes a common stack with units that are not EGUs and the owner or operator of the EGU does not conduct emissions monitoring in the duct to the common stack from each EGU, the owner or operator of the EGU must conduct emissions monitoring in accordance with Section 1.16(b)(2) of Appendix B to this Part and this Section, including monitoring in the duct to the common stack from each unit that is not an EGU, unless the owner or operator of the EGU counts the combined emissions measured at the common stack as the mass emissions of mercury for the EGUs for recordkeeping and compliance purposes.

- a) Requirements for installation, certification, and data accounting. The owner or operator of each EGU must:

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- 1) Install all monitoring systems required pursuant to this Section and Sections 225.250 through 225.290 for monitoring mercury mass emissions (including all systems required to monitor mercury concentration, stack gas moisture content, stack gas flow rate, and CO<sub>2</sub> or O<sub>2</sub> concentration, as applicable, in accordance with Sections 1.15 and 1.16 of Appendix B to this Part).
  - 2) Successfully complete all certification tests required pursuant to Section 225.250 and meet all other requirements of this Section, Sections 225.250 through 225.290, and Sections 1.14 through 1.18 of Appendix B to this Part applicable to the monitoring systems required under subsection (a)(1) of this Section.
  - 3) Record, report, and assure the quality of the data from the monitoring systems required under subsection (a)(1) of this Section.
  - 4) If the owner or operator elects to use the low mass emissions excepted monitoring methodology for an EGU that emits no more than 464 ounces (29 pounds) of mercury per year pursuant to Section 1.15(b) of Appendix B to this Part, it must perform emissions testing in accordance with Section 1.15(c) of Appendix B to this Part to demonstrate that the EGU is eligible to use this excepted emissions monitoring methodology, as well as comply with all other applicable requirements of Section 1.15(b) through (f) of Appendix B to this Part. Also, the owner or operator must submit a copy of any information required to be submitted to the USEPA pursuant to these provisions to the Agency. The initial emissions testing to demonstrate eligibility of an EGU for the low mass emissions excepted methodology must be conducted by the applicable of the following dates:
    - A) If the EGU has commenced commercial operation before July 1, 2008, at least by July 1, 2009, or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
    - B) If the EGU has commenced commercial operation on or after July 1, 2008, at least 45 days prior to the applicable date specified pursuant to subsection (b)(2) of this Section or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
- b) Emissions Monitoring Deadlines. The owner or operator must meet the emissions monitoring system certification and other emissions monitoring requirements of subsections (a)(1) and (a)(2) of this Section on or before the applicable of the

302 following dates. The owner or operator must record, report, and quality-assure  
 303 the data from the emissions monitoring systems required under subsection (a)(1)  
 304 of this Section on and after the applicable of the following dates:  
 305

- 306 1) For the owner or operator of an EGU that commences commercial  
 307 operation before July 1, 2008, by July 1, 2009, except that an EGU in an  
 308 MPS Group for which an SO<sub>2</sub> scrubber or fabric filter is being installed to  
 309 be in operation by December 31, 2009, as described in Section  
 310 225.233(c)(1)(A), shall have a date of January 1, 2010.
- 311 2) For the owner or operator of an EGU that commences commercial  
 312 operation on or after July 1, 2008, by 90 unit operating days or 180  
 313 calendar days, whichever occurs first, after the date on which the EGU  
 314 commences commercial operation.
- 315 3) For the owner or operator of an EGU for which construction of a new  
 316 stack or flue or installation of add-on mercury emission controls, a flue  
 317 gas desulfurization system, a selective catalytic reduction system, a fabric  
 318 filter, or a compact hybrid particulate collector system is completed after  
 319 the applicable deadline pursuant to subsection (b)(1) or (b)(2) of this  
 320 Section, by 90 unit operating days or 180 calendar days, whichever occurs  
 321 first, after the date on which emissions first exit to the atmosphere through  
 322 the new stack or flue, add-on mercury emission controls, flue gas  
 323 desulfurization system, selective catalytic reduction system, fabric filter,  
 324 or compact hybrid particulate collector system.
- 325 4) For an owner or operator of an EGU that originally elected to demonstrate  
 326 compliance pursuant to the emissions testing requirements in Section  
 327 225.239, by the first day of the calendar quarter following the last  
 328 emissions test demonstrating compliance with Section 225.239.

329 c) The owner or operator of an EGU that does not meet the applicable emissions  
 330 monitoring date set forth in subsection (b) of this Section for any emissions  
 331 monitoring system required pursuant to subsection (a)(1) of this Section must  
 332 begin periodic emissions testing in accordance with Section 225.239.

333 d) Prohibitions.

- 334 1) No owner or operator of an EGU may use any alternative emissions  
 335 monitoring system, alternative reference method for measuring emissions,  
 336 or other alternative to the emissions monitoring and measurement  
 337 requirements of this Section and Sections 225.250 through 225.290, unless  
 338 such alternative is submitted to the Agency in writing and approved in  
 339

345 writing by the Manager of the Bureau of Air's Compliance Section, or his  
 346 or her designee.

347  
 348 2) No owner or operator of an EGU may operate its EGU so as to discharge,  
 349 or allow to be discharged, mercury emissions to the atmosphere without  
 350 accounting for such emissions in accordance with the applicable  
 351 provisions of this Section, Sections 225.250 through 225.290, and  
 352 Sections 1.14 through 1.18 of Appendix B to this Part, unless  
 353 demonstrating compliance pursuant to Section 225.239, as applicable.  
 354

355 3) No owner or operator of an EGU may disrupt the CEMS (or excepted  
 356 monitoring system), any portion thereof, or any other approved emission  
 357 monitoring method, and thereby avoid monitoring and recording mercury  
 358 mass emissions discharged into the atmosphere, except for periods of  
 359 recertification or periods when calibration, quality assurance testing, or  
 360 maintenance is performed in accordance with the applicable provisions of  
 361 this Section, Sections 225.250 through 225.290, and Sections 1.14 through  
 362 1.18 of Appendix B to this Part.  
 363

364 4) No owner or operator of an EGU may retire or permanently discontinue  
 365 use of the CEMS (or excepted monitoring system) or any component  
 366 thereof, or any other approved monitoring system pursuant to this Subpart  
 367 B, except under any one of the following circumstances:  
 368

369 A) The owner or operator is monitoring emissions from the EGU with  
 370 another certified monitoring system that has been approved, in  
 371 accordance with the applicable provisions of this Section, Sections  
 372 225.250 through 225.290 of this Subpart B, and Sections 1.14  
 373 through 1.18 of Appendix B to this Part, by the Agency for use at  
 374 that EGU and that provides emission data for the same pollutant or  
 375 parameter as the retired or discontinued monitoring system; or  
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377 B) The owner or operator submits notification of the date of  
 378 certification testing of a replacement monitoring system for the  
 379 retired or discontinued monitoring system in accordance with  
 380 Section 225.250(a)(3)(A).  
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382 C) The owner or operator is demonstrating compliance pursuant to the  
 383 applicable subsections of Section 225.239.  
 384

385 e) Long-term Cold Storage.  
 386 The owner or operator of an EGU that is in long-term cold storage is subject to  
 387 the provisions of 40 CFR 75.4 and 40 CFR 75.64, incorporated by reference in

388 Section 225.140, relating to monitoring, recordkeeping, and reporting for units in  
 389 long-term cold storage.

390 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
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392  
 393 **Section 225.265 Coal Analysis for Input Mercury Levels**  
 394

395 a) The owner or operator of an EGU complying with this Subpart B by means of  
 396 Section 225.230(a)(1)(B); using input mercury levels ( $I_i$ ) and complying by means  
 397 of Section 225.230(b) or (d) or Section 225.232; electing to comply with the  
 398 emissions testing, monitoring, and recordkeeping requirements under Section  
 399 225.239; demonstrating compliance under Section 225.233, except an EGU in an  
 400 MPS Group that elects to comply with the emission standard in Section  
 401 225.233(d)(1)(A) or (d)(2)(A); or demonstrating compliance under Sections  
 402 225.291 through 225.299, except an EGU in a CPS Group that elects to comply  
 403 with the emission standard in Section 225.294(c)(1) or that opts into the emission  
 404 standard in Section 225.294(c)(1) pursuant to Section 225.294(e)(1) or that has  
 405 permanently ceased combusting coal must fulfill the following requirements:

406  
 407 1) Perform sampling of the coal combusted in the EGU for mercury content.  
 408 The owner or operator of such EGU must collect a minimum of one 2-lb.  
 409 grab sample from the belt feeders anywhere between the crusher house or  
 410 breaker building and the boiler or, in cases in which a crusher house or  
 411 breaker building is not present, at a reasonable point close to the boiler of  
 412 a subject EGU, according to the schedule in subsections (a)(1)(A) through  
 413 (C). The sample must be taken in a manner that provides a representative  
 414 mercury content for the coal burned on that day. If multiple samples are  
 415 tested, the owner or operator must average those tests to arrive at the final  
 416 mercury content for that time period. The owner or operator of the EGU  
 417 must perform coal sampling as follows:

418  
 419 A) EGUs complying by means of Section 225.233, except an EGU in  
 420 an MPS Group that elects to comply with the control efficiency  
 421 standard in Section 225.233(d)(1)(B) or (d)(2)(B) or elects to  
 422 comply with Section 225.233(d)(4), or Sections 225.291 through  
 423 225.299, except an EGU in a CPS Group that elects to comply with  
 424 the control efficiency standard in Section 225.294(c)(2) or that opts  
 425 into the emission standard in Section 225.294(c)(2) pursuant to  
 426 Section 225.294(e)(1), must perform such coal sampling at least  
 427 once per month unless the boiler did not operate or combust coal at  
 428 all during that month;  
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- B) EGUs complying by means of the emissions testing, monitoring, and recordkeeping requirements under Section 225.239 or Section 225.233(d)(4), or EGUs that opt into the emission standard in Section 225.294(c)(2) pursuant to Section 225.294(e)(1)(B), must perform such coal sampling according to the schedule provided in Section 225.239(e)(3) of this Subpart;
  - C) All other EGUs subject to this requirement, including EGUs in an MPS or CPS Group electing to comply with the control efficiency standard in Section 225.233(d)(1)(B) or (d)(2)(B), Section 225.294(c)(2), or Section 225.294(c)(2) pursuant to Section 225.294(e)(1)(A), must perform such coal sampling on a daily basis when the boiler is operating and combusting coal.
- 2) Analyze the grab coal sample for the following:
    - A) Determine the heat content using ASTM D5865-04 or an equivalent method approved in writing by the Agency.
    - B) Determine the moisture content using ASTM D3173-03 or an equivalent method approved in writing by the Agency.
    - C) Measure the mercury content using ASTM D6414-01, ASTM D3684-01, ASTM D6722-01, or an equivalent method approved in writing by the Agency.
  - 3) The owner or operator of multiple EGUs at the same source using the same crusher house or breaker building may take one sample per crusher house or breaker building, rather than one per EGU.
  - 4) The owner or operator of an EGU must use the data analyzed pursuant to subsection (b) of this Section to determine the mercury content in terms of parts per million.
- b) The owner or operator of an EGU that must conduct sampling and analysis of coal pursuant to subsection (a) of this Section must begin such activity by the following date:
    - 1) If the EGU is in daily service, at least 30 days before the start of the month for which such activity will be required.
    - 2) If the EGU is not in daily service, on the day that the EGU resumes operation.

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(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.290 Recordkeeping and Reporting**

- a) General Provisions.
  - 1) ~~Except as otherwise indicated in this Subpart, the~~The owner or operator of an EGU must comply with all applicable recordkeeping and reporting requirements in this Section and with all applicable recordkeeping and reporting requirements of Section 1.18 to Appendix B to this Part.
  - 2) The owner or operator of an EGU must maintain records for each month identifying the emission standard in Section 225.230(a) or 225.237(a) of this Section with which it is complying or that is applicable for the EGU and the following records related to the emissions of mercury that the EGU is allowed to emit:
    - A) For an EGU for which the owner or operator is complying with this Subpart B by means of Section 225.230(a)(1)(B) or 225.237(a)(1)(B) or using input mercury levels to determine the allowable emissions of the EGU, records of the daily mercury content of coal used (parts per million) and the daily and monthly input mercury (lbs), which must be kept in the file pursuant to Section 1.18(a) of Appendix B to this Part.
    - B) For an EGU for which the owner or operator of an EGU complying with this Subpart B by means of Section 225.230(a)(1)(A) or 225.237(a)(1)(A) or using electrical output to determine the allowable emissions of the EGU, records of the daily and monthly gross electrical output (GWh), which must be kept in the file required pursuant to Section 1.18(a) of Appendix B to this Part.
  - 3) The owner or operator of an EGU must maintain records of the following data for each EGU:
    - A) Monthly emissions of mercury from the EGU.
    - B) For an EGU for which the owner or operator is complying by means of Section 225.230(b) or (d) of this Subpart B, records of the monthly allowable emissions of mercury from the EGU.

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- 4) The owner or operator of an EGU that is participating in an Averaging Demonstration pursuant to Section 225.232 of this Subpart B must maintain records identifying all sources and EGUs covered by the Demonstration for each month and, within 60 days after the end of each calendar month, calculate and record the actual and allowable mercury emissions of the EGU for the month and the applicable 12-month rolling period.
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- 5) The owner or operator of an EGU must maintain the following records related to quality assurance activities conducted for emissions monitoring systems:
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- A) The results of quarterly assessments conducted pursuant to Section 2.2 of Exhibit B to Appendix B to this Part; and
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- B) Daily/weekly system integrity checks pursuant to Section 2.6 of Exhibit B to Appendix B to this Part.
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- 6) The owner or operator of an EGU must retain all records required by this Section at the source for a period of five years from the date the document is created unless otherwise provided in the CAAPP permit issued for the source and must make a copy of any record available to the Agency upon request. This period may be extended in writing by the Agency, for cause, at any time prior to the end of five years.
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- b) Quarterly Reports. The owner or operator of a source with one or more EGUs using CEMS or excepted monitoring systems at any time during a calendar quarter must submit quarterly reports to the Agency as follows:
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546
- 1) Source information such as source name, source ID number, and the period covered by the report.
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- 2) A list of all EGUs at the source that identifies the applicable Part 225 monitoring and reporting requirements with which each EGU is complying for the reported quarter, including the following EGUs, which are excluded from subsection (b)(3) of this Section:
- 552  
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555
- A) All EGUs using the periodic emissions testing provisions of Section 225.239, 225.233(d)(4), or Section 225.294(c) pursuant to Section 225.294(e)(1)(B) for the quarter.

- 556 B) All EGUs using the low mass emissions (LME) excepted  
 557 monitoring methodology pursuant to Section 1.15(b) of Appendix  
 558 B to this Part.  
 559
- 560 3) For only those EGUs using CEMS or excepted monitoring systems at any  
 561 time during a calendar quarter:  
 562
- 563 A) An indication of whether the identified EGUs were in compliance  
 564 with all applicable monitoring, recordkeeping, and reporting  
 565 requirements of Part 225 for the entire reporting period.  
 566
- 567 B) The total quarterly operating hours of each EGU.  
 568
- 569 C) The CEMS or excepted monitoring system QAMO hours on a  
 570 quarterly basis and percentage data availability on a quarterly or  
 571 rolling 12-month basis (for each concluding 12-month period in  
 572 that quarter), as appropriate according to the schedule provided in  
 573 Section 225.260(b). The data availability shall be determined in  
 574 accordance with Section 1.8 (CEMS) or 1.9 (excepted monitoring  
 575 system) of Appendix B to this Part.  
 576
- 577 D) The average monthly mercury concentration of the coal combusted  
 578 in each EGU in parts per million (determined by averaging all  
 579 analyzed coal samples in the month) and the quarterly total amount  
 580 of mercury (calculated by multiplying the total amount of coal  
 581 combusted each month by the average monthly mercury  
 582 concentration and converting to ounces, then adding together for  
 583 the quarter) of the coal combusted in each EGU. If the EGU is  
 584 complying by means of Section 225.230(a)(1)(A),  
 585 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), reporting of  
 586 the data in this subsection (b)(3)(D) is not required.  
 587
- 588 E) The quarterly mercury mass emissions (in ounces), determined  
 589 from the QAMO hours in accordance with Section 4.2 of Exhibit C  
 590 to Appendix B to this Part. If the EGU is complying by means of  
 591 Section 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or  
 592 225.294(c)(1), reporting of the data in this subsection (b)(3)(E) is  
 593 not required.  
 594
- 595 F) The average monthly and quarterly mercury control efficiency.  
 596 This is determined by dividing the mercury mass emissions  
 597 recorded during QAMO hours, calculated each month and quarter,  
 598 by the total amount of mercury in the coal combusted weighted by

599 the monitor availability (total mercury content multiplied by the  
 600 percent monitor availability, or QAMO hours divided by total  
 601 hours) for each month and quarter. If the DAHS for the EGU has  
 602 the ability to record the amount of coal combusted during QAMO  
 603 hours, the average monthly and quarterly control efficiency shall  
 604 be reported without the calculation in this subsection (b)(3)(F). If  
 605 the EGU is complying by means of Section 225.230(a)(1)(A),  
 606 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), reporting of  
 607 the data in this subsection (b)(3)(F) is not required.

608  
 609 G) The average monthly and quarterly mercury emission rate (in  
 610 lb/GWh) for each EGU, determined in accordance with Section  
 611 225.230(a)(2). Only those EGUs complying by means of Section  
 612 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or  
 613 225.294(c)(1) are required to report the data in this subsection  
 614 (b)(3)(G).

615  
 616 H) The 12-month rolling average control efficiency (percentage) or  
 617 emission rate (in lb/GWh) for each month in the reporting period,  
 618 as applicable (or the rolling average control efficiency or emission  
 619 rate for a lesser number of months if a full 12 months of data is not  
 620 available). This applicable data is determined according to the  
 621 following requirements:

622  
 623 i) The 12-month rolling average control efficiency is required  
 624 for those sources complying by means of Section  
 625 225.230(a)(1)(B), 225.233(d)(1)(B), 225.233(d)(2)(B),  
 626 225.294(c)(2), 225.230(b), 225.230(d), 225.232(b)(2), or  
 627 225.237(a)(1)(B).

628  
 629 ii) The 12-month rolling average emission rate is required for  
 630 those sources complying by means of Section  
 631 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or  
 632 225.294(c)(1), 225.230(b), 225.230(d), 225.232(b)(1), or  
 633 225.237(a)(1)(A).

634  
 635 I) If the CEMS or excepted monitoring system percentage data  
 636 availability was less than 95.0 percent of the total operating time  
 637 for the EGU, the date and time identifying each period during  
 638 which the CEMS was inoperative, except for routine zero and span  
 639 checks; the nature of CEMS repairs or adjustments and a summary  
 640 of quality assurance data consistent with Appendix B to this Part,  
 641 i.e., the dates and results of the Linearity Tests and any RATAs

642 during the quarter; a listing of any days when a required daily  
 643 calibration was not performed; and the date and duration of any  
 644 periods when the CEMS was unavailable or out-of-control as  
 645 addressed by Section 225.260.  
 646

647 4) The owner or operator must submit each quarterly report to the Agency  
 648 within 45 days following the end of the calendar quarter covered by the  
 649 report, except that the owner or operator of an EGU that used an excepted  
 650 monitoring system at any time during a calendar quarter must submit each  
 651 quarterly report within 60 days following the end of the calendar quarter  
 652 covered by the report.  
 653

654 c) Compliance Certification. The owner or operator of a source with one or more  
 655 EGUs must submit to the Agency a compliance certification in support of each  
 656 quarterly report based on reasonable inquiry of those persons with primary  
 657 responsibility for ensuring that all of the EGUs' emissions are correctly and fully  
 658 monitored. The certification must state:  
 659

660 1) That the monitoring data submitted were recorded in accordance with the  
 661 applicable requirements of this Section, Sections 225.240 through 225.270  
 662 and Section 225.290 of this Subpart B, and Appendix B to this Part,  
 663 including the quality assurance procedures and specifications; and  
 664

665 2) For an EGU with add-on mercury emission controls, a flue gas  
 666 desulfurization system, a selective catalytic reduction system, or a  
 667 compact hybrid particulate collector system for all hours where mercury  
 668 data is unavailable or out-of-control that:  
 669

670 A) The mercury add-on emission controls, flue gas desulfurization  
 671 system, selective catalytic reduction system, or compact hybrid  
 672 particulate collector system was operating within the range of  
 673 parameters listed in the quality assurance/quality control program  
 674 pursuant to Exhibit B to Appendix B to this Part; or  
 675

676 B) With regard to a flue gas desulfurization system or a selective  
 677 catalytic reduction system, quality-assured SO<sub>2</sub> emission data  
 678 recorded in accordance with the 40 CFR 75 document that the flue  
 679 gas desulfurization system was operating properly, or quality-  
 680 assured NO<sub>x</sub> emission data recorded in accordance with the 40  
 681 CFR 75 document that the selective catalytic reduction system was  
 682 operating properly, as applicable.  
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684 d) Annual Certification of Compliance.

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- 1) The owner or operator of a source with one or more EGUs subject to this Subpart B must submit to the Agency an Annual Certification of Compliance with this Subpart B no later than May 1 of each year and must address compliance for the previous calendar year. Such certification must be submitted to the Agency, Air Compliance Section, and the Air Regional Field Office.
  
- 2) Annual Certifications of Compliance must indicate whether compliance existed for each EGU for each month in the year covered by the Certification and it must certify to that effect. In addition, for each EGU, the owner or operator must provide the following appropriate data as set forth in subsections (d)(2)(A) through (d)(2)(E) of this Section, together with the data set forth in subsection (d)(2)(F) of this Section:
  - A) If complying with this Subpart B by means of Section 225.230(a)(1)(A) or 225.237(a)(1)(A):
    - i) Emissions rate during QAMO hours, in lb/GWh, for each 12-month rolling period ending in the year covered by the Certification;
    - ii) Emissions during QAMO hours, in lbs, and gross electrical output, in GWh, for each 12-month rolling period ending in the year covered by the Certification; and
    - iii) Emissions during QAMO hours, in lbs, and gross electrical output, in GWh, for each month in the year covered by the Certification and in the previous year.
  
  - B) If complying with this Subpart B by means of Section 225.230(a)(1)(B) or 225.237(a)(1)(B):
    - i) Control efficiency for emissions during QAMO hours for each 12-month rolling period ending in the year covered by the Certification, expressed as a percent;
    - ii) Emissions during QAMO hours, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each 12-month rolling period ending in the year covered by the Certification; and

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- iii) Emissions during QAMO hours, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each month in the year covered by the Certification and in the previous year.
  - C) If complying with this Subpart B by means of Section 225.230(b):
    - i) Emissions and allowable emissions during QAMO hours for each 12-month rolling period ending in the year covered by the Certification; and
    - ii) Emissions and allowable emissions during QAMO hours and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
  - D) If complying with this Subpart B by means of Section 225.230(d):
    - i) Emissions and allowable emissions during QAMO hours for all EGUs at the source for each 12-month rolling period ending in the year covered by the Certification; and
    - ii) Emissions and allowable emissions during QAMO hours, and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
  - E) If complying with this Subpart B by means of Section 225.232:
    - i) Emissions and allowable emissions during QAMO hours for all EGUs at the source in an Averaging Demonstration for each 12-month rolling period ending in the year covered by the Certification; and
    - ii) Emissions and allowable emissions during QAMO hours, with the standard of compliance the owner or operator was utilizing for each EGU at the source in an Averaging Demonstration for each month for all EGUs at the source in an Averaging Demonstration in the year covered by the Certification and in the previous year.
  - F) Any deviations or exceptions each month and discussion of the reasons for such deviations or exceptions.

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3) All Annual Certifications of Compliance required to be submitted must include the following certification by a responsible official:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

4) The owner or operator of an EGU must submit its first Annual Certification of Compliance to address calendar year 2009 or the calendar year in which the EGU commences commercial operation, whichever is later. Notwithstanding subsection (d)(2) of this Section, in the Annual Certifications of Compliance that are required to be submitted by May 1, 2010, and May 1, 2011, to address calendar years 2009 and 2010, respectively, the owner or operator is not required to provide 12-month rolling data for any period that ends before June 30, 2010.

e) Deviation Reports. For each EGU, the owner or operator must promptly notify the Agency of deviations from requirements of this Subpart B. At a minimum, these notifications must include a description of such deviations within 30 days after discovery of the deviations, and a discussion of the possible cause of such deviations, any corrective actions, and any preventative measures taken.

f) Quality Assurance RATA Reports. The owner or operator of an EGU must submit to the Agency, Air Compliance and Enforcement Section, the quality assurance RATA report for each EGU or group of EGUs monitored at a common stack and each non-EGU pursuant to Section 1.16(b)(2)(B) of Appendix B to this Part, within 45 days after completing a quality assurance RATA.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.291 Combined Pollutant Standard: Purpose**

The purpose of Sections 225.291 through 225.299 (hereinafter referred to as the Combined Pollutant Standard ("CPS")) is to allow an alternate means of compliance with the emissions standards for mercury in Section 225.230(a) for specified EGUs through permanent shut-down, installation of ACI, and the application of pollution control technology for NO<sub>x</sub>, PM, and SO<sub>2</sub>

813 emissions, or the conversion of an EGU to a fuel other than coal (such as natural gas or distillate  
 814 fuel oil with sulfur content no greater than 15 ppm), that also reduce mercury emissions as a co-  
 815 benefit and to establish permanent emissions standards for those specified EGUs. Unless  
 816 otherwise provided for in the CPS, owners and operators of those specified EGUs are not  
 817 excused from compliance with other applicable requirements of Subparts B, C, D, and E.

818  
 819 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
 820

821 **Section 225.292 Applicability of the Combined Pollutant Standard**  
 822

- 823 a) As an alternative to compliance with the emissions standards of Section  
 824 225.230(a), the owner or operator of specified EGUs in the CPS located at the  
 825 Fisk, Crawford, Joliet, Powerton, Waukegan, and Will County power plants may  
 826 elect for all of those EGUs as a group to demonstrate compliance pursuant to the  
 827 CPS, which establishes control requirements and emissions standards for NO<sub>x</sub>,  
 828 PM, SO<sub>2</sub>, and mercury. For this purpose, ownership of a specified EGU is  
 829 determined based on direct ownership, by holding a majority interest in a  
 830 company that owns the EGU or EGUs, or by the common ownership of the  
 831 company that owns the EGU, whether through a parent-subsidiary relationship, as  
 832 a sister corporation, or as an affiliated corporation with the same parent  
 833 corporation, provided that the owner or operator has the right or authority to  
 834 submit a CAAPP application on behalf of the EGU.  
 835
- 836 b) A specified EGU is ana-coal-fired EGU listed in Appendix A, irrespective of any  
 837 subsequent changes in ownership of the EGU or power plant, the operator, unit  
 838 designation, or name of unit, or the type of fuel combusted (including natural gas  
 839 or distillate fuel oil with sulfur content no greater than 15 ppm).  
 840
- 841 c) The owner or operator of each of the specified EGUs electing to demonstrate  
 842 compliance with Section 225.230(a) pursuant to the CPS must submit an  
 843 application for a CAAPP permit modification to the Agency, as provided for in  
 844 Section 225.220, that includes the information specified in Section 225.293 that  
 845 clearly states the owner's or operator's election to demonstrate compliance with  
 846 Section 225.230(a) pursuant to the CPS.  
 847
- 848 d) If an owner or operator of one or more specified EGUs elects to demonstrate  
 849 compliance with Section 225.230(a) pursuant to the CPS, then all specified EGUs  
 850 owned or operated in Illinois by the owner or operator as of December 31, 2006,  
 851 as defined in subsection (a) of this Section, are thereafter subject to the standards  
 852 and control requirements of the CPS. Such EGUs are referred to as a Combined  
 853 Pollutant Standard (CPS) group.  
 854

- 855 e) If an EGU is subject to the requirements of this Section, then the requirements  
856 apply to all owners and operators of the EGU.  
857

858 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
859

860 **Section 225.293 Combined Pollutant Standard: Notice of Intent**  
861

862 The owner or operator of one or more specified EGUs that intends to comply with Section  
863 225.230(a) by means of the CPS must notify the Agency of its intention on or before December  
864 31, 2007. The following information must accompany the notification:  
865

- 866 a) The identification of each EGU that will be complying with Section 225.230(a)  
867 pursuant to the CPS, with evidence that the owner or operator has identified all  
868 specified EGUs that it owned or operated in Illinois as of December 31, 2006, and  
869 which commenced commercial operation on or before December 31, 2004;  
870
- 871 b) If an EGU identified in subsection (a) of this Section is also owned or operated by  
872 a person different than the owner or operator submitting the notice of intent, a  
873 demonstration that the submitter has the right to commit the EGU or authorization  
874 from the responsible official for the EGU submitting the application; ~~and~~  
875
- 876 c) A summary of the current control devices installed and operating on each EGU  
877 and identification of the additional control devices that will likely be needed for  
878 each EGU to comply with emission control requirements of the CPS;:-  
879
- 880 d) Additionally, the owner or operator of a specified EGU that, on or after January 1,  
881 2015, changes the type of primary fuel combusted by the unit or the control  
882 device or devices installed and operating on the unit must notify the Agency of  
883 such change by January 1, 2017, or within 30 days after the completion of such  
884 change, whichever is later.  
885

886 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
887

888 **Section 225.294 Combined Pollutant Standard: Control Technology Requirements and**  
889 **Emissions Standards for Mercury**  
890

- 891 a) Control Technology Requirements for Mercury.  
892
- 893 1) For each coal-fired EGU in a CPS group other than an EGU that is  
894 addressed by subsection (b) of this Section, the owner or operator of the  
895 EGU must install, if not already installed, and properly operate and  
896 maintain, by the dates set forth in subsection (a)(2) of this Section, ACI

- 897 equipment complying with subsections (g), (h), (i), (j), and (k) of this  
 898 Section, as applicable.  
 899
- 900 2) By the following dates, for the EGUs listed in subsections (a)(2)(A) and  
 901 (B), which include hot and cold side ESPs, the owner or operator must  
 902 install, if not already installed, and begin operating ACI equipment or the  
 903 Agency must be given written notice that the EGU will be shut down on or  
 904 before the following dates:  
 905
- 906 A) Fisk 19, Crawford 7, Crawford 8, Waukegan 7, and Waukegan 8  
 907 on or before July 1, 2008; and  
 908
- 909 B) Powerton 5, Powerton 6, Will County 3, Will County 4, Joliet 6,  
 910 Joliet 7, and Joliet 8 on or before July 1, 2009.  
 911
- 912 b) Notwithstanding subsection (a) of this Section;  
 913
- 914 1) ~~The~~ the following EGUs are not required to install ACI equipment because  
 915 they will be permanently shut down, as addressed by Section 225.297, by  
 916 the date specified:  
 917
- 918 A1) EGUs that are required to permanently shut down:  
 919
- 920 iA) On or before December 31, 2007, Waukegan 6; and  
 921
- 922 iiB) On or before December 31, 2010, Will County 1 and Will  
 923 County 2.  
 924
- 925 B2) Any other specified EGU that is permanently shut down by  
 926 December 31, 2010; and:-  
 927
- 928 2) On and after the date an EGU permanently ceases combusting coal, it is  
 929 not required to install, operate, or maintain ACI equipment.  
 930
- 931 c) Beginning on January 1, 2015, and continuing thereafter, and measured on a  
 932 rolling 12-month basis (the initial period is January 1, 2015, through December  
 933 31, 2015, and, then, for every 12-month period thereafter), each specified EGU  
 934 that has not permanently ceased combusting coal, except Will County 3, shall  
 935 achieve one of the following emissions standards:  
 936
- 937 1) An emissions standard of 0.0080 lbs mercury/GWh gross electrical output;  
 938 or  
 939

- 940 2) A minimum 90 percent reduction of input mercury.  
 941  
 942 d) On and after April 16, 2015, Will County 3 must not combust coal. Beginning on  
 943 January 1, 2016, and continuing thereafter, Will County 3 shall achieve the  
 944 mercury emissions standards of subsection (e) of this Section measured on a  
 945 rolling 12-month basis (the initial period is January 1, 2016, through December  
 946 31, 2016, and, then, for every 12-month period thereafter).  
 947  
 948 e) Compliance with Emission Standards  
 949  
 950 1) At any time prior to the dates required for compliance in subsections (c)  
 951 and (d) of this Section, the owner or operator of a specified EGU, upon  
 952 notice to the Agency, may elect to comply with the emissions standards of  
 953 subsection (c) of this Section measured on either:  
 954  
 955 A) a rolling 12-month basis; or  
 956  
 957 B) a quarterly calendar basis pursuant to the emissions testing  
 958 requirements in Section 225.239(a)(4), (c), (d), (e), (f), (g), (h), (i),  
 959 and (j) of this Subpart until June 30, 2012.  
 960  
 961 2) Once an EGU is subject to the mercury emissions standards of subsection  
 962 (c) of this Section, it shall not be subject to the requirements of  
 963 subsections (g), (h), (i), (j) and (k) of this Section;  
 964  
 965 3) On and after the date an EGU permanently ceases combusting coal, it shall  
 966 not be subject to the requirements of subsections (g), (h), (i), (j) and (k) of  
 967 this Section.  
 968  
 969 f) Compliance with the mercury emissions standards or reduction requirement of  
 970 this Section must be calculated in accordance with Section 225.230(a) or (b), or  
 971 Section 225.232 until December 31, 2013.  
 972  
 973 g) For each EGU for which injection of halogenated activated carbon is required by  
 974 subsection (a)(1) of this Section, the owner or operator of the EGU must inject  
 975 halogenated activated carbon in an optimum manner;  
 976  
 977 1) Except as provided in subsection (h) of this Section, optimum manner is  
 978 defined as all of the following:  
 979  
 980 A) The use of an injection system for effective absorption of mercury,  
 981 considering the configuration of the EGU and its ductwork;  
 982

- 983 B) The injection of halogenated activated carbon manufactured by  
 984 Alstom, Norit, or Sorbent Technologies, Calgon Carbon's  
 985 FLUEPAC CF Plus, or Calgon Carbon's FLUEPAC MC Plus, or  
 986 the injection of any other halogenated activated carbon or sorbent  
 987 that the owner or operator of the EGU has demonstrated to have  
 988 similar or better effectiveness for control of mercury emissions;  
 989 and  
 990  
 991 C) The injection of sorbent at the following minimum rates, as  
 992 applicable:  
 993  
 994 i) For an EGU firing subbituminous coal, 5.0 lbs per million  
 995 actual cubic feet or, for any cyclone-fired EGU that will  
 996 install a scrubber and baghouse by December 31, 2012, and  
 997 which already meets an emission rate of 0.020 lb  
 998 mercury/GWh gross electrical output or at least 75 percent  
 999 reduction of input mercury, 2.5 lbs per million actual cubic  
 1000 feet;  
 1001  
 1002 ii) For an EGU firing bituminous coal, 10.0 lbs per million  
 1003 actual cubic feet or, for any cyclone-fired EGU that will  
 1004 install a scrubber and baghouse by December 31, 2012, and  
 1005 which already meets an emission rate of 0.020 lb  
 1006 mercury/GWh gross electrical output or at least 75 percent  
 1007 reduction of input mercury, 5.0 lbs per million actual cubic  
 1008 feet;  
 1009  
 1010 iii) For an EGU firing a blend of subbituminous and  
 1011 bituminous coal, a rate that is the weighted average of the  
 1012 rates specified in subsections (g)(1)(C)(i) and (ii) based on  
 1013 the blend of coal being fired; or  
 1014  
 1015 iv) A rate or rates set lower by the Agency, in writing, than the  
 1016 rate specified in any of subsection (g)(1)(C)(i), (ii), or (iii)  
 1017 of this Section on a unit-specific basis, provided that the  
 1018 owner or operator of the EGU has demonstrated that such  
 1019 rate or rates are needed so that carbon injection will not  
 1020 increase particulate matter emissions or opacity so as to  
 1021 threaten noncompliance with applicable requirements for  
 1022 particulate matter or opacity.  
 1023  
 1024 2) For purposes of subsection (g)(1)(C) of this Section, the flue gas flow rate  
 1025 shall be the gas flow rate in the stack for all units except for those

1026 equipped with activated carbon injection prior to a hot-side electrostatic  
 1027 precipitator; for units equipped with activated carbon injection prior to a  
 1028 hot-side electrostatic precipitator, the flue gas flow rate shall be the gas  
 1029 flow rate at the inlet to the hot-side electrostatic precipitator, which shall  
 1030 be determined as the stack flow rate adjusted through the use of Charles'  
 1031 Law for the differences in gas temperatures in the stack and at the inlet to  
 1032 the electrostatic precipitator ( $V_{esp} = V_{stack} \times T_{esp}/T_{stack}$ , where V = gas flow  
 1033 rate in acf and T = gas temperature in Kelvin or Rankine).  
 1034

1035 h) The owner or operator of an EGU that seeks to operate an EGU with an activated  
 1036 carbon injection rate or rates that are set on a unit-specific basis pursuant to  
 1037 subsection (g)(1)(C)(iv) of this Section must submit an application to the Agency  
 1038 proposing such rate or rates, and must meet the requirements of subsections (h)(1)  
 1039 and (h)(2) of this Section, subject to the limitations of subsections (h)(3) and  
 1040 (h)(4) of this Section:  
 1041

- 1042 1) The application must be submitted as an application for a new or revised  
 1043 federally enforceable operation permit for the EGU, and it must include a  
 1044 summary of relevant mercury emissions data for the EGU, the unit-  
 1045 specific injection rate or rates that are proposed, and detailed information  
 1046 to support the proposed injection rate or rates;  
 1047
- 1048 2) This application must be submitted no later than the date that activated  
 1049 carbon must first be injected. For example, the owner or operator of an  
 1050 EGU that must inject activated carbon pursuant to subsection (a)(1) of this  
 1051 Section must apply for unit-specific injection rate or rates by July 1, 2008.  
 1052 Thereafter, the owner or operator may supplement its application;  
 1053
- 1054 3) Any decision of the Agency denying a permit or granting a permit with  
 1055 conditions that set a lower injection rate or rates may be appealed to the  
 1056 Board pursuant to Section 39 of the Act; and  
 1057
- 1058 4) The owner or operator of an EGU may operate at the injection rate or rates  
 1059 proposed in its application until a final decision is made on the application  
 1060 including a final decision on any appeal to the Board.  
 1061

1062 i) During any evaluation of the effectiveness of a listed sorbent, alternative sorbent,  
 1063 or other technique to control mercury emissions, the owner or operator of an EGU  
 1064 need not comply with the requirements of subsection (g) of this Section for any  
 1065 system needed to carry out the evaluation, as further provided as follows:  
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- 1) The owner or operator of the EGU must conduct the evaluation in accordance with a formal evaluation program submitted to the Agency at least 30 days prior to commencement of the evaluation;
  - 2) The duration and scope of the evaluation may not exceed the duration and scope reasonably needed to complete the desired evaluation of the alternative control techniques, as initially addressed by the owner or operator in a support document submitted with the evaluation program;
  - 3) The owner or operator of the EGU must submit a report to the Agency no later than 30 days after the conclusion of the evaluation that describes the evaluation conducted and which provides the results of the evaluation; and
  - 4) If the evaluation of alternative control techniques shows less effective control of mercury emissions from the EGU than was achieved with the principal control techniques, the owner or operator of the EGU must resume use of the principal control techniques. If the evaluation of the alternative control technique shows comparable effectiveness to the principal control technique, the owner or operator of the EGU may either continue to use the alternative control technique in a manner that is at least as effective as the principal control technique or it may resume use of the principal control technique. If the evaluation of the alternative control technique shows more effective control of mercury emissions than the control technique, the owner or operator of the EGU must continue to use the alternative control technique in a manner that is more effective than the principal control technique, so long as it continues to be subject to this Section.
- j) In addition to complying with the applicable recordkeeping and monitoring requirements in Sections 225.240 through 225.290, the owner or operator of an EGU that elects to comply with this Subpart B by means of Sections 225.291 through 225.299 must also comply with the following additional requirements:
- 1) For the first 36 months that injection of sorbent is required, it must maintain records of the usage of sorbent, the flue gas flow rate from the EGU (and, if the unit is equipped with activated carbon injection prior to a hot-side electrostatic precipitator, flue gas temperature at the inlet of the hot-side electrostatic precipitator and in the stack), and the sorbent feed rate, in pounds per million actual cubic feet of flue gas, on a weekly average;
  - 2) After the first 36 months that injection of sorbent is required, it must monitor activated sorbent feed rate to the EGU, gas flow rate in the stack,

1110 and, if the unit is equipped with activated carbon injection prior to a hot-  
 1111 side electrostatic precipitator, flue gas temperature at the inlet of the hot-  
 1112 side electrostatic precipitator and in the stack. It must automatically  
 1113 record this data and the sorbent carbon feed rate, in pounds per million  
 1114 actual cubic feet of flue gas, on an hourly average; and

1115  
 1116 3) If a blend of bituminous and subbituminous coal is fired in the EGU, it  
 1117 must keep records of the amount of each type of coal burned and the  
 1118 required injection rate for injection of activated carbon on a weekly basis.  
 1119

1120 k) In addition to complying with the applicable reporting requirements in Sections  
 1121 225.240 through 225.290, the owner or operator of an EGU that elects to comply  
 1122 with Section 225.230(a) by means of the CPS must also submit quarterly reports  
 1123 for the recordkeeping and monitoring conducted pursuant to subsection (j) of this  
 1124 Section.  
 1125

1126 l) Until June 30, 2012, as an alternative to the CEMS (or excepted monitoring  
 1127 system) monitoring, recordkeeping, and reporting requirements in Sections  
 1128 225.240 through 225.290, the owner or operator of an EGU may elect to comply  
 1129 with the emissions testing, monitoring, recordkeeping, and reporting requirements  
 1130 in Section 225.239(c), (d), (e), (f)(1) and (2), (h)(2), (i)(3) and (4), and (j)(1).  
 1131

1132 m) Notwithstanding any other provision in this Subpart, the requirements in Sections  
 1133 225.240 through 225.290 of this Subpart, and any other mercury-related  
 1134 monitoring, recordkeeping, notice, analysis, certification, and reporting  
 1135 requirements set forth in this Subpart, including in this CPS, will not apply to a  
 1136 specified EGU on and after the date the EGU permanently ceases combusting  
 1137 coal.  
 1138

1139 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
 1140

1141 **Section 225.295 Combined Pollutant Standard: Emissions Standards for NO<sub>x</sub> and SO<sub>2</sub>**  
 1142

1143 a) Emissions Standards for NO<sub>x</sub> and Reporting Requirements.  
 1144

1145 1) Beginning with calendar year 2012 and continuing in each calendar year  
 1146 thereafter, the CPS group, which includes all specified EGUs, regardless  
 1147 of the type of fuel combusted, that have not been permanently shut down  
 1148 by December 31 before the applicable calendar year, must comply with a  
 1149 CPS group average annual NO<sub>x</sub> emissions rate of no more than 0.11  
 1150 lbs/mmBtu.  
 1151

1152 2) Beginning with ozone season control period 2012 and continuing in each  
1153 ozone season control period (May 1 through September 30) thereafter, the  
1154 CPS group, which includes all specified EGUs, regardless of the type of  
1155 fuel combusted, that have not been permanently shut down by December  
1156 31 before the applicable ozone season, must comply with a CPS group  
1157 average ozone season NO<sub>x</sub> emissions rate of no more than 0.11  
1158 lbs/mmBtu.

1160 3) The owner or operator of the specified EGUs in the CPS group must file,  
1161 not later than one year after startup of any selective SNCR on such EGU, a  
1162 report with the Agency describing the NO<sub>x</sub> emissions reductions that the  
1163 SNCR has been able to achieve.

1165 4) The specified EGUs are not subject to the requirements set forth in 35 Ill.  
1166 Adm. Code 217, Subpart M, including without limitation the NO<sub>x</sub>  
1167 emission standards set forth in 35 Ill. Adm. Code 217.344.

1169 b) Emissions Standards for SO<sub>2</sub>. Beginning in calendar year 2013 and continuing in  
1170 each calendar year thereafter, the CPS group must comply with the applicable  
1171 CPS group average annual SO<sub>2</sub> emissions rate listed as follows. For purposes of  
1172 this subsection (b) only, the CPS group includes only those specified EGUs that  
1173 combust coal:

year	lbs/mmBtu
2013	0.44
2014	0.41
2015	0.28
2016	0.195
2017	0.15
2018	0.13
2019	0.11

1185 c) Compliance with the NO<sub>x</sub> and SO<sub>2</sub> emissions standards must be demonstrated in  
1186 accordance with Sections 225.310, 225.410, and 225.510. The owner or operator  
1187 of the specified EGUs must complete the demonstration of compliance pursuant  
1188 to Section 225.298(c) before March 1 of the following year for annual standards  
1189 and before November 30 of the particular year for ozone season control periods  
1190 (May 1 through September 30) standards, by which date a compliance report must  
1191 be submitted to the Agency.

1193 d) The CPS group average annual SO<sub>2</sub> emission rate, annual NO<sub>x</sub> emission rate and  
1194 ozone season NO<sub>x</sub> emission rates shall be determined as follows:

1195

1196

$$ER_{avg} = \frac{\sum_{i=1}^n (SO_{2i} \text{ or } NO_{xi})}{\sum_{i=1}^n (HI_i)}$$

1197

1198

$$ER_{avg} = \frac{\sum_{i=1}^n (SO_{2i} \text{ or } NO_{xi} \text{ tons})}{\sum_{i=1}^n (HI_i)}$$

1199

1200

1201

Where:

- ER<sub>avg</sub> = average annual or ozone season emission rate in lbs/mmBtu of all EGUs in the CPS group.
- HI<sub>i</sub> = heat input for the annual or ozone control period of each EGU, in mmBtu.
- SO<sub>2i</sub> = actual annual SO<sub>2</sub> lbstons of each EGU in the CPS group.
- NO<sub>xi</sub> = actual annual or ozone season NO<sub>x</sub> lbstons of each EGU in the CPS group.
- n = number of EGUs that are in the CPS group.
- i = each EGU in the CPS group.

1202

1203

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

1204

1205

**Section 225.296 Combined Pollutant Standard: Control Technology Requirements for NO<sub>x</sub>, SO<sub>2</sub>, and PM Emissions**

1206

1207

1208

a) Control Technology Requirements for NO<sub>x</sub> and SO<sub>2</sub>.

1209

1210

- 1) On or before December 31, 2013, the owner or operator must either permanently shut down or install and have operational FGD equipment on Waukegan 7;

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- 2) On or before December 31, 2014, the owner or operator must either permanently shut down or install and have operational FGD equipment on Waukegan 8;

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- 3) On or before December 31, 2015, the owner or operator must either permanently shut down or install and have operational FGD equipment on Fisk 19;

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1222

- 4) If Crawford 7 will be operated after December 31, 2018, and not permanently shut down by this date, the owner or operator must:

1223

1224

- 1225 A) On or before December 31, 2015, install and have operational  
 1226 SNCR or equipment capable of delivering essentially equivalent  
 1227 NO<sub>x</sub> reductions on Crawford 7; and  
 1228
- 1229 B) On or before December 31, 2018, install and have operational FGD  
 1230 equipment on Crawford 7;  
 1231
- 1232 5) If Crawford 8 will be operated after December 31, 2017 and not  
 1233 permanently shut down by this date, the owner or operator must:  
 1234
- 1235 A) On or before December 31, 2015, install and have operational  
 1236 SNCR or equipment capable of delivering essentially equivalent  
 1237 NO<sub>x</sub> emissions reductions on Crawford 8; and  
 1238
- 1239 B) On or before December 31, 2017, install and have operational FGD  
 1240 equipment on Crawford 8.  
 1241
- 1242 b) Other Control Technology Requirements for SO<sub>2</sub>. On and after April 16, 2015,  
 1243 Will County 3 must not combust coal. On and after December 31, 2016, Joliet 6,  
 1244 7, and 8 must not combust coal. Owners or operators of the other specified EGUs  
 1245 must either permanently shut down, permanently cease combusting coal at, or  
 1246 install FGD equipment on each specified EGU (except Will County 4Joliet 5), on  
 1247 or before December 31, 2018, unless an earlier date is specified in subsection (a)  
 1248 of this Section.  
 1249
- 1250 c) Control Technology Requirements for PM. The owner or operator of the  
 1251 Waukegan 7 EGU~~two specified EGUs listed in this subsection~~ that ~~is~~are  
 1252 equipped with a hot-side ESP must replace the hot-side ESP with a cold-side  
 1253 ESP, install an appropriately designed fabric filter, or permanently shut down the  
 1254 EGU by December 31, 2014~~the dates specified~~. Hot-side ESP means an ESP on  
 1255 a coal-fired boiler that is installed before the boiler's air-preheater where the  
 1256 operating temperature is typically at least 550°F, as distinguished from a cold-  
 1257 side ESP that is installed after the air pre-heater where the operating temperature  
 1258 is typically no more than 350°F.  
 1259
- 1260 1) ~~Waukegan 7 on or before December 31, 2013; and~~  
 1261
- 1262 2) ~~Will County 3 on or before December 31, 2015.~~  
 1263
- 1264 d) Beginning on December 31, 2008, and annually thereafter up to and including  
 1265 December 31, 2015, the owner or operator of the Fisk power plant must submit in  
 1266 writing to the Agency a report on any technology or equipment designed to affect  
 1267 air quality that has been considered or explored for the Fisk power plant in the

1268 preceding 12 months. This report will not obligate the owner or operator to install  
 1269 any equipment described in the report.

1270  
 1271 e) Notwithstanding 35 Ill. Adm. Code 201.146(hhh), until an EGU has complied  
 1272 with the applicable requirements of subsections 225.296(a), (b), and (c), the  
 1273 owner or operator of the EGU must obtain a construction permit for any new or  
 1274 modified air pollution control equipment that it proposes to construct for control  
 1275 of emissions of mercury, NO<sub>x</sub>, PM, or SO<sub>2</sub>.

1276  
 1277 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)  
 1278

1279 **Section 225.298 Combined Pollutant Standard: Requirements for NO<sub>x</sub> and SO<sub>2</sub>**  
 1280 **Allowances**

1281  
 1282 a) The following requirements apply to the owner and operator with respect to SO<sub>2</sub>  
 1283 and NO<sub>x</sub> allowances, which mean, for the purposes of this Section 225.298,  
 1284 allowances necessary for compliance with Section 225.310, 225.410, or 225.510,  
 1285 40 CFR 72, or subparts AA and AAAA of 40 CFR 96, or any future federal NO<sub>x</sub>  
 1286 or SO<sub>2</sub> emissions trading programs that modify or replace these programs:

1287  
 1288 1) ~~The owner or operator of specified EGUs in a CPS group is permitted to~~  
 1289 ~~sell, trade, or transfer SO<sub>2</sub> and NO<sub>x</sub> emissions allowances of any vintage~~  
 1290 ~~owned, allocated to, or earned by the specified EGUs (the "CPS~~  
 1291 ~~allowances") to its affiliated Homer City, Pennsylvania generating station~~  
 1292 ~~for as long as the Homer City Station needs the CPS allowances for~~  
 1293 ~~compliance.~~

1294  
 1295 12) ~~When and if the Homer City Station no longer requires all of the CPS~~  
 1296 ~~allowances, the owner or operator of specified EGUs in a CPS group~~  
 1297 ~~may sell, trade, or transfer any and all SO<sub>2</sub> and NO<sub>x</sub> emissions allowances~~  
 1298 ~~of any vintage owned, allocated to, or earned by the specified EGUs (the~~  
 1299 ~~"CPS allowances") remaining CPS allowances, without restriction, to any~~  
 1300 ~~person or entity located anywhere, except that the owner or operator may~~  
 1301 ~~not directly sell, trade, or transfer CPS allowances to a unit located in~~  
 1302 ~~Ohio, Indiana, Illinois, Wisconsin, Michigan, Kentucky, Missouri, Iowa,~~  
 1303 ~~Minnesota, or Texas.~~

1304  
 1305 3) In no event shall this subsection (a) require or be interpreted to require any  
 1306 restriction whatsoever on the sale, trade, or exchange of the CPS  
 1307 allowances by persons or entities who have acquired the CPS allowances  
 1308 from the owner or operator of specified EGUs in a CPS group.  
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- b) The owner or operator of EGUs in a specified CPS group is prohibited from purchasing or using SO<sub>2</sub> and NO<sub>x</sub> allowances for the purposes of meeting the SO<sub>2</sub> and NO<sub>x</sub> emissions standards set forth in Section 225.295.
  
- c) By March 1, 2010, and continuing each year thereafter, the owner or operator of the EGUs in a CPS group must submit a report to the Agency that demonstrates compliance with the requirements of this Section for the previous calendar year and ozone season control period (May 1 through September 30), and includes identification of any NO<sub>x</sub> or SO<sub>2</sub> allowances that have been used for compliance with any NO<sub>x</sub> or SO<sub>2</sub> trading programs, and any NO<sub>x</sub> or SO<sub>2</sub> allowances that were sold, gifted, used, exchanged, or traded. A final report must be submitted to the Agency by August 31 of each year, providing either verification that the actions described in the initial report have taken place, or, if such actions have not taken place, an explanation of the changes that have occurred and the reasons for such changes.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

1328 **Section 225.APPENDIX A Specified EGUs for Purposes of the CPS (Midwest**  
 1329 **Generation's Coal-Fired Boilers as of July 1, 2006)**  
 1330

<b>Plant</b>	<b>Permit Number</b>	<b>Boiler</b>	<b>Permit designation</b>	<b>CPS Designation</b>
Crawford	031600AIN	7	Unit 7 Boiler BLR1	Crawford 7
		8	Unit 8 Boiler BLR2	Crawford 8
Fisk	031600AMI	19	Unit 19 Boiler BLR19	Fisk 19
Joliet	197809AAO	71	Unit 7 Boiler BLR71	Joliet 7
		72	Unit 7 Boiler BLR72	Joliet 7
		81	Unit 8 Boiler BLR81	Joliet 8
		82	Unit 8 Boiler BLR82	Joliet 8
		5	Unit 6 Boiler BLR5	Joliet 6
Powerton	179801AAA	51	Unit 5 Boiler BLR51	Powerton 5
		52	Unit 5 Boiler BLR52	Powerton 5
		61	Unit 6 Boiler BLR61	Powerton 6
		62	Unit 6 Boiler BLR62	Powerton 6
Waukegan	097190AAC	17	Unit 6 Boiler BLR17	Waukegan 6
		7	Unit 7 Boiler BLR7	Waukegan 7
		8	Unit 8 Boiler BLR8	Waukegan 8
Will County	197810AAK	1	Unit 1 Boiler BLR1	Will County 1
		2	Unit 2 Boiler BLR2	Will County 2
		3	Unit 3 Boiler BLR3	Will County 3
		4	Unit 4 Boiler BLR4	Will County 4

1331  
 1332 (Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

~~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 225  
CONTROL OF EMISSIONS FROM LARGE COMBUSTION SOURCES

SUBPART A: GENERAL PROVISIONS

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225.100	Severability
225.120	Abbreviations and Acronyms
225.130	Definitions
225.140	Incorporations by Reference
<u>225.150</u>	<u>Commence Commercial Operation</u>

SUBPART B: CONTROL OF MERCURY EMISSIONS  
FROM COAL-FIRED ELECTRIC GENERATING UNITS

Section	
225.200	Purpose
225.202	Measurement Methods
225.205	Applicability
225.210	Compliance Requirements
225.220	Clean Air Act Permit Program (CAAPP) Permit Requirements
225.230	Emission Standards for EGUs at Existing Sources
225.232	Averaging Demonstrations for Existing Sources
225.233	Multi-Pollutant Standard (MPS)
225.234	Temporary Technology-Based Standard for EGUs at Existing Sources
225.235	Units Scheduled for Permanent Shut Down
225.237	Emission Standards for New Sources with EGUs
225.238	Temporary Technology-Based Standard for New Sources with EGUs
<u>225.239</u>	<u>Periodic Emissions Testing Alternative Requirements</u>
225.240	General Monitoring and Reporting Requirements
225.250	Initial Certification and Recertification Procedures for Emissions Monitoring
225.260	Out of Control Periods <u>and Data Availability</u> for Emission Monitors
225.261	Additional Requirements to Provide Heat Input Data

**POLLUTION CONTROL BOARD**

**NOTICE OF PROPOSED AMENDMENTS**

225.263	Monitoring of Gross Electrical Output
225.265	Coal Analysis for Input Mercury Levels
225.270	Notifications
225.290	Recordkeeping and Reporting
225.291	Combined Pollutant Standard: Purpose
225.292	Applicability of the Combined Pollutant Standard
225.293	Combined Pollutant Standard: Notice of Intent
225.294	Combined Pollutant Standard: Control Technology Requirements and Emissions Standards for Mercury
225.295	Combined Pollutant Standard: Emissions Standards for NO <sub>x</sub> and SO <sub>2</sub>
225.296	Combined Pollutant Standard: Control Technology Requirements for NO <sub>x</sub> , SO <sub>2</sub> , and PM Emissions
225.297	Combined Pollutant Standard: Permanent Shut-Downs
225.298	Combined Pollutant Standard: Requirements for NO <sub>x</sub> and SO <sub>2</sub> Allowances
225.299	Combined Pollutant Standard: Clean Air Act Requirements

**SUBPART C: CLEAN AIR ACT INTERSTATE  
RULE (CAIR) SO<sub>2</sub> TRADING PROGRAM**

Section	
225.300	Purpose
225.305	Applicability
225.310	Compliance Requirements
225.315	Appeal Procedures
225.320	Permit Requirements
225.325	Trading Program

**SUBPART D: CAIR NO<sub>x</sub> ANNUAL TRADING PROGRAM**

Section	
225.400	Purpose
225.405	Applicability
225.410	Compliance Requirements
225.415	Appeal Procedures
225.420	Permit Requirements
225.425	Annual Trading Budget
225.430	Timing for Annual Allocations
225.435	Methodology for Calculating Annual Allocations
225.440	Annual Allocations

**POLLUTION CONTROL BOARD**

**NOTICE OF PROPOSED AMENDMENTS**

- 225.445 New Unit Set-Aside (NUSA)
- 225.450 Monitoring, Recordkeeping and Reporting Requirements for Gross Electrical Output and Useful Thermal Energy
- 225.455 Clean Air Set-Aside (CASA)
- 225.460 Energy Efficiency and Conservation, Renewable Energy, and Clean Technology Projects
- 225.465 Clean Air Set-Aside (CASA) Allowances
- 225.470 Clean Air Set-Aside (CASA) Applications
- 225.475 Agency Action on Clean Air Set-Aside (CASA) Applications
- 225.480 Compliance Supplement Pool

**SUBPART E: CAIR NO<sub>x</sub> OZONE SEASON TRADING PROGRAM**

- | Section | Purpose  |
|---------|--|
| 225.500 | Purpose  |
| 225.505 | Applicability  |
| 225.510 | Compliance Requirements  |
| 225.515 | Appeal Procedures  |
| 225.520 | Permit Requirements  |
| 225.525 | Ozone Season Trading Budget  |
| 225.530 | Timing for Ozone Season Allocations  |
| 225.535 | Methodology for Calculating Ozone Season Allocations   |
| 225.540 | Ozone Season Allocations   |
| 225.545 | New Unit Set-Aside (NUSA)  |
| 225.550 | Monitoring, Recordkeeping and Reporting Requirements for Gross Electrical Output and Useful Thermal Energy |
| 225.555 | Clean Air Set-Aside (CASA)   |
| 225.560 | Energy Efficiency and Conservation, Renewable Energy, and Clean Technology Projects                        |
| 225.565 | Clean Air Set-Aside (CASA) Allowances  |
| 225.570 | Clean Air Set-Aside (CASA) Applications  |
| 225.575 | Agency Action on Clean Air Set-Aside (CASA) Applications   |

**SUBPART F: COMBINED POLLUTANT STANDARDS**

- 225.600 Purpose (Repealed)
- 225.605 Applicability (Repealed)
- 225.610 Notice of Intent (Repealed)

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- 225.615 Control Technology Requirements and Emissions Standards for Mercury (Repealed)
- 225.620 Emissions Standards for NO<sub>x</sub> and SO<sub>2</sub> (Repealed)
- 225.625 Control Technology Requirements for NO<sub>x</sub>, SO<sub>2</sub>, and PM Emissions (Repealed)
- 225.630 Permanent Shut-Downs (Repealed)
- 225.635 Requirements for CAIR SO<sub>2</sub>, CAIR NO<sub>x</sub>, and CAIR NO<sub>x</sub> Ozone Season Allowances (Repealed)
- 225.640 Clean Air Act Requirements (Repealed)
  
- 225.APPENDIX A Specified EGUs for Purposes of the CPS ~~Midwest Generation's~~ (Coal-Fired Boilers as of July 1, 2006)
- 225.APPENDIX B Continuous Emission Monitoring Systems for Mercury
  - 225.EXHIBIT A Specifications and Test Procedures
  - 225. EXHIBIT B Quality Assurance and Quality Control Procedures
  - 225. EXHIBIT C Conversion Procedures
  - ~~225.225.~~EXHIBIT D Quality Assurance and Operating Procedures for Sorbent Trap Monitoring Systems

AUTHORITY: Implementing and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/27].

SOURCE: Adopted in R06-25 at 31 Ill. Reg. 129, effective December 21, 2006; amended in R06-26 at 31 Ill. Reg. 12864, effective August 31, 2007; amended in R09-10 at 33 Ill. Reg. 10427, effective June 26, 2009; amended in R15-21 at 39 Ill. Reg.       , effective       .

SUBPART B: CONTROL OF MERCURY EMISSIONS  
FROM COAL-FIRED ELECTRIC GENERATING UNITS

**Section 225.205 Applicability**

The following stationary coal-fired boilers and stationary coal-fired combustion turbines, and the stationary boilers listed in Appendix A ~~of this Part~~, regardless of the type of fuel combusted, are EGUs and are subject to this Subpart B:

- a) Except as provided in subsection (b) of this Section, a unit serving, at any time since the start-up of the unit's combustion chamber, a generator with nameplate capacity of more than 25 MWe producing electricity for sale.

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

- b) For a unit that qualifies as a cogeneration unit during the 12-month period starting on the date the unit first produces electricity and continues to qualify as a cogeneration unit, a cogeneration unit serving at any time a generator with nameplate capacity of more than 25 MWe and supplying in any calendar year more than one-third of the unit's potential electric output capacity or 219,000 MWh, whichever is greater, to any utility power distribution system for sale. If a unit qualifies as a cogeneration unit during the 12-month period starting on the date the unit first produces electricity but subsequently no longer qualifies as a cogeneration unit, the unit must be subject to subsection (a) of this Section starting on the day on which the unit first no longer qualifies as a cogeneration unit.

(Source: Amended at 39 Ill. Reg. ~~—~~ \_\_\_\_\_, effective           \_\_\_\_\_)

**Section 225.210 Compliance Requirements**

- a) Permit Requirements.  
The owner or operator of each source with one or more EGUs subject to this Subpart B at the source must apply for a CAAPP permit that addresses the applicable requirements of this Subpart B.
- b) Monitoring and Testing Requirements.
- 1) Except as otherwise indicated in this Subpart, ~~theThe~~the owner or operator of each source and each EGU at the source must comply with either the monitoring requirements of Sections 225.240 through 225.290 of this Subpart B, the periodic emissions testing requirements of Section 225.239 of this Subpart B, or an alternative emissions monitoring system, alternative reference method for measuring emissions, or other alternative to the emissions monitoring and measurement requirements of Sections 225.240 through 225.290, if such alternative is submitted to the Agency in writing and approved in writing by the Manager of the Bureau of Air's Compliance Section.
  - 2) Except as otherwise indicated in this Subpart, ~~theThe~~the compliance of each EGU with the mercury requirements of Sections 225.230 and 225.237 of this Subpart B must be determined by the emissions measurements recorded and reported in accordance with either Sections 225.240 through 225.290 of this Subpart B, Section 225.239 of this

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Subpart B, or an alternative emissions monitoring system, alternative reference method for measuring emissions, or other alternative to the emissions monitoring and measurement requirements of Sections 225.240 through 225.290, if such alternative is submitted to the Agency in writing and approved in writing by the Manager of the Bureau of Air's Compliance Section.

- c) **Mercury Emission Reduction Requirements**  
The owner or operator of any EGU subject to this Subpart B must comply with applicable requirements for control of mercury emissions of Section 225.230 or Section 225.237 of this Subpart B.
- d) **Recordkeeping and Reporting Requirements**  
Unless otherwise provided, the owner or operator of a source with one or more EGUs at the source must keep on site at the source each of the documents listed in subsections (d)(1) through (d)(3) of this Section for a period of five years from the date the document is created. This period may be extended, in writing by the Agency, for cause, at any time prior to the end of five years.
  - 1) All emissions monitoring information gathered in accordance with Sections 225.240 through 225.290 and all periodic emissions testing information gathered in accordance with Section 225.239.
  - 2) Copies of all reports, compliance certifications, and other submissions and all records made or required or documents necessary to demonstrate compliance with the requirements of this Subpart B.
  - 3) Copies of all documents used to complete a permit application and any other submission under this Subpart B.
- e) **Liability.**
  - 1) The owner or operator of each source with one or more EGUs must meet the requirements of this Subpart B.
  - 2) Any provision of this Subpart B that applies to a source must also apply to the owner and operator of such source and to the owner or operator of each EGU at the source.

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- 3) Any provision of this Subpart B that applies to an EGU must also apply to the owner or operator of such EGU.
- f) Effect on Other Authorities. No provision of this Subpart B may be construed as exempting or excluding the owner or operator of a source or EGU from compliance with any other provision of an approved State Implementation Plan, a permit, the Act, or the CAA.

(Source: Amended at 39 Ill. Reg.     , effective     )

**Section 225.240 General Monitoring and Reporting Requirements**

Except as otherwise indicated in this Subpart, ~~the~~The~~the~~ owner or operator of an EGU must comply with the monitoring, recordkeeping, and reporting requirements as provided in this Section, Sections 225.250 through 225.290 of this Subpart B, and Sections 1.14 through 1.18 of Appendix B to this Part. If the EGU utilizes a common stack with units that are not EGUs and the owner or operator of the EGU does not conduct emissions monitoring in the duct to the common stack from each EGU, the owner or operator of the EGU must conduct emissions monitoring in accordance with Section 1.16(b)(2) of Appendix B to this Part and this Section, including monitoring in the duct to the common stack from each unit that is not an EGU, unless the owner or operator of the EGU counts the combined emissions measured at the common stack as the mass emissions of mercury for the EGUs for recordkeeping and compliance purposes.

- a) Requirements for installation, certification, and data accounting. The owner or operator of each EGU must:
- ~~1)~~1) Install all monitoring systems required pursuant to this Section and Sections 225.250 through 225.290 for monitoring mercury mass emissions (including all systems required to monitor mercury concentration, stack gas moisture content, stack gas flow rate, and CO<sub>2</sub> or O<sub>2</sub> concentration, as applicable, in accordance with Sections 1.15 and 1.16 of Appendix B to this Part).
  - 2) Successfully complete all certification tests required pursuant to Section 225.250 and meet all other requirements of this Section, Sections 225.250 through 225.290, and Sections 1.14 through 1.18 of Appendix B to this Part applicable to the monitoring systems required under subsection (a)(1) of this Section.

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- 3) Record, report, and assure the quality of the data from the monitoring systems required under subsection (a)(1) of this Section.
  - 4) If the owner or operator elects to use the low mass emissions excepted monitoring methodology for an EGU that emits no more than 464 ounces (29 pounds) of mercury per year pursuant to Section 1.15(b) of Appendix B to this Part, it must perform emissions testing in accordance with Section 1.15(c) of Appendix B to this Part to demonstrate that the EGU is eligible to use this excepted emissions monitoring methodology, as well as comply with all other applicable requirements of Section 1.15(b) through (f) of Appendix B to this Part. Also, the owner or operator must submit a copy of any information required to be submitted to the USEPA pursuant to these provisions to the Agency. The initial emissions testing to demonstrate eligibility of an EGU for the low mass emissions excepted methodology must be conducted by the applicable of the following dates:
    - A) If the EGU has commenced commercial operation before July 1, 2008, at least by July 1, 2009, or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
    - B) If the EGU has commenced commercial operation on or after July 1, 2008, at least 45 days prior to the applicable date specified pursuant to subsection (b)(2) of this Section or 45 days prior to relying on the low mass emissions excepted methodology, whichever date is later.
- b) Emissions Monitoring Deadlines. The owner or operator must meet the emissions monitoring system certification and other emissions monitoring requirements of subsections (a)(1) and (a)(2) of this Section on or before the applicable of the following dates. The owner or operator must record, report, and quality-assure the data from the emissions monitoring systems required under subsection (a)(1) of this Section on and after the applicable of the following dates:
- 1) For the owner or operator of an EGU that commences commercial operation before July 1, 2008, by July 1, 2009, except that an EGU in an MPS Group for which an SO<sub>2</sub> scrubber or fabric filter is being installed to be in operation by December 31, 2009, as described in Section 225.233(c)(1)(A), shall have a date of January 1, 2010.

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- 2) For the owner or operator of an EGU that commences commercial operation on or after July 1, 2008, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the EGU commences commercial operation.
  - 3) For the owner or operator of an EGU for which construction of a new stack or flue or installation of add-on mercury emission controls, a flue gas desulfurization system, a selective catalytic reduction system, a fabric filter, or a compact hybrid particulate collector system is completed after the applicable deadline pursuant to subsection (b)(1) or (b)(2) of this Section, by 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which emissions first exit to the atmosphere through the new stack or flue, add-on mercury emission controls, flue gas desulfurization system, selective catalytic reduction system, fabric filter, or compact hybrid particulate collector system.
  - 4) For an owner or operator of an EGU that originally elected to demonstrate compliance pursuant to the emissions testing requirements in Section 225.239, by the first day of the calendar quarter following the last emissions test demonstrating compliance with Section 225.239.
- c) The owner or operator of an EGU that does not meet the applicable emissions monitoring date set forth in subsection (b) of this Section for any emissions monitoring system required pursuant to subsection (a)(1) of this Section must begin periodic emissions testing in accordance with Section 225.239.
- d) Prohibitions.
- ~~1-1~~ No owner or operator of an EGU may use any alternative emissions monitoring system, alternative reference method for measuring emissions, or other alternative to the emissions monitoring and measurement requirements of this Section and Sections 225.250 through 225.290, unless such alternative is submitted to the Agency in writing and approved in writing by the Manager of the Bureau of Air's Compliance Section, or his or her designee.
- 2) No owner or operator of an EGU may operate its EGU so as to discharge, or allow to be discharged, mercury emissions to the atmosphere without accounting for such emissions in accordance with the applicable

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provisions of this Section, Sections 225.250 through 225.290, and Sections 1.14 through 1.18 of Appendix B to this Part, unless demonstrating compliance pursuant to Section 225.239, as applicable.

- 3) No owner or operator of an EGU may disrupt the CEMS (or excepted monitoring system), any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording mercury mass emissions discharged into the atmosphere, except for periods of recertification or periods when calibration, quality assurance testing, or maintenance is performed in accordance with the applicable provisions of this Section, Sections 225.250 through 225.290, and Sections 1.14 through 1.18 of Appendix B to this Part.
- 4) No owner or operator of an EGU may retire or permanently discontinue use of the CEMS (or excepted monitoring system) or any component thereof, or any other approved monitoring system pursuant to this Subpart B, except under any one of the following circumstances:
  - A) The owner or operator is monitoring emissions from the EGU with another certified monitoring system that has been approved, in accordance with the applicable provisions of this Section, Sections 225.250 through 225.290 of this Subpart B, and Sections 1.14 through 1.18 of Appendix B to this Part, by the Agency for use at that EGU and that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
  - B) The owner or operator submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with Section 225.250(a)(3)(A).
  - C) The owner or operator is demonstrating compliance pursuant to the applicable subsections of Section 225.239.
- e) Long-term Cold Storage.  
The owner or operator of an EGU that is in long-term cold storage is subject to the provisions of 40 CFR 75.4 and 40 CFR 75.64, incorporated by reference in Section 225.140, relating to monitoring, recordkeeping, and reporting for units in long-term cold storage.

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(Source: Amended at 39 Ill. Reg.       , effective       )

**Section 225.265 Coal Analysis for Input Mercury Levels**

- a) The owner or operator of an EGU complying with this Subpart B by means of Section 225.230(a)(1)(B); using input mercury levels (I<sub>i</sub>) and complying by means of Section 225.230(b) or (d) or Section 225.232; electing to comply with the emissions testing, monitoring, and recordkeeping requirements under Section 225.239; demonstrating compliance under Section 225.233, except an EGU in an MPS Group that elects to comply with the emission standard in Section 225.233(d)(1)(A) or (d)(2)(A); or demonstrating compliance under Sections 225.291 through 225.299, except an EGU in a CPS Group that elects to comply with the emission standard in Section 225.294(c)(1) or that opts into the emission standard in Section 225.294(c)(1) pursuant to Section 225.294(e)(1) or that has permanently ceased combusting coal; must fulfill the following requirements:

~~1)~~ 1) Perform sampling of the coal combusted in the EGU for mercury content.

The owner or operator of such EGU must collect a minimum of one 2-lb. grab sample from the belt feeders anywhere between the crusher house or breaker building and the boiler or, in cases in which a crusher house or breaker building is not present, at a reasonable point close to the boiler of a subject EGU, according to the schedule in subsections (a)(1)(A) through (C). The sample must be taken in a manner that provides a representative mercury content for the coal burned on that day. If multiple samples are tested, the owner or operator must average those tests to arrive at the final mercury content for that time period. The owner or operator of the EGU must perform coal sampling as follows:

A) EGUs complying by means of Section 225.233, except an EGU in an MPS Group that elects to comply with the control efficiency standard in Section 225.233(d)(1)(B) or (d)(2)(B) or elects to comply with Section 225.233(d)(4), or Sections 225.291 through 225.299, except an EGU in a CPS Group that elects to comply with the control efficiency standard in Section 225.294(c)(2) or that opts into the emission standard in Section 225.294(c)(2) pursuant to Section 225.294(e)(1), must perform such coal sampling at least once per month unless the boiler did not operate or combust coal at all during that month;

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- B) EGUs complying by means of the emissions testing, monitoring, and recordkeeping requirements under Section 225.239 or Section 225.233(d)(4), or EGUs that opt into the emission standard in Section 225.294(c)(2) pursuant to Section 225.294(e)(1)(B), must perform such coal sampling according to the schedule provided in Section 225.239(e)(3) of this Subpart;
  - C) All other EGUs subject to this requirement, including EGUs in an MPS or CPS Group electing to comply with the control efficiency standard in Section 225.233(d)(1)(B) or (d)(2)(B), Section 225.294(c)(2), or Section 225.294(c)(2) pursuant to Section 225.294(e)(1)(A), must perform such coal sampling on a daily basis when the boiler is operating and combusting coal.
- 2) Analyze the grab coal sample for the following:
    - A) Determine the heat content using ASTM D5865-04 or an equivalent method approved in writing by the Agency.
    - B) Determine the moisture content using ASTM D3173-03 or an equivalent method approved in writing by the Agency.
    - C) Measure the mercury content using ASTM D6414-01, ASTM D3684-01, ASTM D6722-01, or an equivalent method approved in writing by the Agency.
  - 3) The owner or operator of multiple EGUs at the same source using the same crusher house or breaker building may take one sample per crusher house or breaker building, rather than one per EGU.
  - 4) The owner or operator of an EGU must use the data analyzed pursuant to subsection (b) of this Section to determine the mercury content in terms of parts per million.
- b) The owner or operator of an EGU that must conduct sampling and analysis of coal pursuant to subsection (a) of this Section must begin such activity by the following date:

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- 1) If the EGU is in daily service, at least 30 days before the start of the month for which such activity will be required.
- 2) If the EGU is not in daily service, on the day that the EGU resumes operation.

(Source: Amended at 39 Ill. Reg.     , effective     )

**Section 225.290 Recordkeeping and Reporting**

~~a)~~ a) General Provisions.

- 1) Except as otherwise indicated in this Subpart, ~~the~~~~The~~the owner or operator of an EGU must comply with all applicable recordkeeping and reporting requirements in this Section and with all applicable recordkeeping and reporting requirements of Section 1.18 to Appendix B to this Part.
- 2) The owner or operator of an EGU must maintain records for each month identifying the emission standard in Section 225.230(a) or 225.237(a) of this Section with which it is complying or that is applicable for the EGU and the following records related to the emissions of mercury that the EGU is allowed to emit:
  - A) For an EGU for which the owner or operator is complying with this Subpart B by means of Section 225.230(a)(1)(B) or 225.237(a)(1)(B) or using input mercury levels to determine the allowable emissions of the EGU, records of the daily mercury content of coal used (parts per million) and the daily and monthly input mercury (lbs), which must be kept in the file pursuant to Section 1.18(a) of Appendix B to this Part.
  - B) For an EGU for which the owner or operator of an EGU complying with this Subpart B by means of Section 225.230(a)(1)(A) or 225.237(a)(1)(A) or using electrical output to determine the allowable emissions of the EGU, records of the daily and monthly gross electrical output (GWh), which must be kept in the file required pursuant to Section 1.18(a) of Appendix B to this Part.

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- 3) The owner or operator of an EGU must maintain records of the following data for each EGU:
    - A) Monthly emissions of mercury from the EGU.
    - B) For an EGU for which the owner or operator is complying by means of Section 225.230(b) or (d) of this Subpart B, records of the monthly allowable emissions of mercury from the EGU.
  - 4) The owner or operator of an EGU that is participating in an Averaging Demonstration pursuant to Section 225.232 of this Subpart B must maintain records identifying all sources and EGUs covered by the Demonstration for each month and, within 60 days after the end of each calendar month, calculate and record the actual and allowable mercury emissions of the EGU for the month and the applicable 12-month rolling period.
  - 5) The owner or operator of an EGU must maintain the following records related to quality assurance activities conducted for emissions monitoring systems:
    - A) The results of quarterly assessments conducted pursuant to Section 2.2 of Exhibit B to Appendix B to this Part; and
    - B) Daily/weekly system integrity checks pursuant to Section 2.6 of Exhibit B to Appendix B to this Part.
  - 6) The owner or operator of an EGU must retain all records required by this Section at the source for a period of five years from the date the document is created unless otherwise provided in the CAAPP permit issued for the source and must make a copy of any record available to the Agency upon request. This period may be extended in writing by the Agency, for cause, at any time prior to the end of five years.
- b) Quarterly Reports. The owner or operator of a source with one or more EGUs using CEMS or excepted monitoring systems at any time during a calendar quarter must submit quarterly reports to the Agency as follows:

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- 1) Source information such as source name, source ID number, and the period covered by the report.
- 2) A list of all EGUs at the source that identifies the applicable Part 225 monitoring and reporting requirements with which each EGU is complying for the reported quarter, including the following EGUs, which are excluded from subsection (b)(3) of this Section:
  - A) All EGUs using the periodic emissions testing provisions of Section 225.239, 225.233(d)(4), or Section 225.294(c) pursuant to Section 225.294(e)(1)(B) for the quarter.
  - B) All EGUs using the low mass emissions (LME) excepted monitoring methodology pursuant to Section 1.15(b) of Appendix B to this Part.
- 3) For only those EGUs using CEMS or excepted monitoring systems at any time during a calendar quarter:
  - A) An indication of whether the identified EGUs were in compliance with all applicable monitoring, recordkeeping, and reporting requirements of Part 225 for the entire reporting period.
  - B) The total quarterly operating hours of each EGU.
  - C) The CEMS or excepted monitoring system QAMO hours on a quarterly basis and percentage data availability on a quarterly or rolling 12-month basis (for each concluding 12-month period in that quarter), as appropriate according to the schedule provided in Section 225.260(b). The data availability shall be determined in accordance with ~~Sections~~Section 1.8 (CEMS) or 1.9 (excepted monitoring system) of Appendix B to this Part.
  - D) The average monthly mercury concentration of the coal combusted in each EGU in parts per million (determined by averaging all analyzed coal samples in the month) and the quarterly total amount of mercury (calculated by multiplying the total amount of coal combusted each month by the average monthly mercury concentration and converting to ounces, then adding

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together for the quarter) of the coal combusted in each EGU. If the EGU is complying by means of ~~Sections~~[Section](#) 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), reporting of the data in this subsection (b)(3)(D) is not required.

E) The quarterly mercury mass emissions (in ounces), determined from the QAMO hours in accordance with Section 4.2 of Exhibit C to Appendix B to this Part. If the EGU is complying by means of Section 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), reporting of the data in this subsection (b)(3)(E) is not required.

F) The average monthly and quarterly mercury control efficiency. This is determined by dividing the mercury mass emissions recorded during QAMO hours, calculated each month and quarter, by the total amount of mercury in the coal combusted weighted by the monitor availability (total mercury content multiplied by the percent monitor availability, or QAMO hours divided by total hours) for each month and quarter. If the DAHS for the EGU has the ability to record the amount of coal combusted during QAMO hours, the average monthly and quarterly control efficiency shall be reported without the calculation in this subsection (b)(3)(F). If the EGU is complying by means of ~~Sections~~[Section](#) 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), reporting of the data in this subsection (b)(3)(F) is not required.

G) The average monthly and quarterly mercury emission rate (in lb/GWh) for each EGU, determined in accordance with Section 225.230(a)(2). Only those EGUs complying by means of Section 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1) are required to report the data in this subsection (b)(3)(G).

H) The 12-month rolling average control efficiency (percentage) or emission rate (in lb/GWh) for each month in the reporting period, as applicable (or the rolling average control efficiency or emission rate for a lesser number of months if a full

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12 months of data is not available). This applicable data is determined according to the following requirements:

- i) The 12-month rolling average control efficiency is required for those sources complying by means of Section 225.230(a)(1)(B), 225.233(d)(1)(B), 225.233(d)(2)(B), 225.294(c)(2), 225.230(b), 225.230(d), 225.232(b)(2), or 225.237(a)(1)(B).
- ii) The 12-month rolling average emission rate is required for those sources complying by means of Section 225.230(a)(1)(A), 225.233(d)(1)(A), 225.233(d)(2)(A), or 225.294(c)(1), 225.230(b), 225.230(d), 225.232(b)(1), or 225.237(a)(1)(A).
- I) If the CEMS or excepted monitoring system percentage data availability was less than 95.0 percent of the total operating time for the EGU, the date and time identifying each period during which the CEMS was inoperative, except for routine zero and span checks; the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with Appendix B to this Part, i.e., the dates and results of the Linearity Tests and any RATAs during the quarter; a listing of any days when a required daily calibration was not performed; and the date and duration of any periods when the CEMS was unavailable or out-of-control as addressed by Section 225.260.
- 4) The owner or operator must submit each quarterly report to the Agency within 45 days following the end of the calendar quarter covered by the report, except that the owner or operator of an EGU that used an excepted monitoring system at any time during a calendar quarter must submit each quarterly report within 60 days following the end of the calendar quarter covered by the report.
- c) **Compliance Certification.** The owner or operator of a source with one or more EGUs must submit to the Agency a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the EGUs' emissions are correctly and fully monitored. The certification must state:

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- 1) That the monitoring data submitted were recorded in accordance with the applicable requirements of this Section, Sections 225.240 through 225.270 and Section 225.290 of this Subpart B, and Appendix B to this Part, including the quality assurance procedures and specifications; and
- 2) For an EGU with add-on mercury emission controls, a flue gas desulfurization system, a selective catalytic reduction system, or a compact hybrid particulate collector system for all hours where mercury data is unavailable or out-of-control that:
  - A) The mercury add-on emission controls, flue gas desulfurization system, selective catalytic reduction system, or compact hybrid particulate collector system was operating within the range of parameters listed in the quality assurance/quality control program pursuant to Exhibit B to Appendix B to this Part; or
  - B) With regard to a flue gas desulfurization system or a selective catalytic reduction system, quality-assured SO<sub>2</sub> emission data recorded in accordance with the 40 CFR 75 document that the flue gas desulfurization system was operating properly, or quality-assured ~~NO<sub>x</sub>~~NO<sub>x</sub> emission data recorded in accordance with the 40 CFR 75 document that the selective catalytic reduction system was operating properly, as applicable.
- d) Annual Certification of Compliance.
  - 1) The owner or operator of a source with one or more EGUs subject to this Subpart B must submit to the Agency an Annual Certification of Compliance with this Subpart B no later than May 1 of each year and must address compliance for the previous calendar year. Such certification must be submitted to the Agency, Air Compliance Section, and the Air Regional Field Office.
  - 2) Annual Certifications of Compliance must indicate whether compliance existed for each EGU for each month in the year covered by the Certification and it must certify to that effect. In addition, for each EGU, the owner or operator must provide the following appropriate data as set

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forth in subsections (d)(2)(A) through (d)(2)(E) of this Section, together with the data set forth in subsection (d)(2)(F) of this Section:

- A) If complying with this Subpart B by means of Section 225.230(a)(1)(A) or 225.237(a)(1)(A):
  - i) Emissions rate during QAMO hours, in lb/GWh, for each 12-month rolling period ending in the year covered by the Certification;
  - ii) Emissions during QAMO hours, in lbs, and gross electrical output, in GWh, for each 12-month rolling period ending in the year covered by the Certification; and
  - iii) Emissions during QAMO hours, in lbs, and gross electrical output, in GWh, for each month in the year covered by the Certification and in the previous year.
  
- B) If complying with this Subpart B by means of Section 225.230(a)(1)(B) or 225.237(a)(1)(B):
  - i) Control efficiency for emissions during QAMO hours for each 12-month rolling period ending in the year covered by the Certification, expressed as a percent;
  - ii) Emissions during QAMO hours, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each 12-month rolling period ending in the year covered by the Certification; and
  - iii) Emissions during QAMO hours, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each month in the year covered by the Certification and in the previous year.
  
- C) If complying with this Subpart B by means of Section 225.230(b):

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- i) Emissions and allowable emissions during QAMO hours for each 12-month rolling period ending in the year covered by the Certification; and
  - ii) Emissions and allowable emissions during QAMO hours, and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
- D) If complying with this Subpart B by means of Section 225.230(d):
- i) Emissions and allowable emissions during QAMO hours for all EGUs at the source for each 12-month rolling period ending in the year covered by the Certification; and
  - ii) Emissions and allowable emissions during QAMO hours, and which standard of compliance the owner or operator was utilizing for each month in the year covered by the Certification and in the previous year.
- E) If complying with this Subpart B by means of Section 225.232:
- i) Emissions and allowable emissions during QAMO hours for all EGUs at the source in an Averaging Demonstration for each 12-month rolling period ending in the year covered by the Certification; and
  - ii) Emissions and allowable emissions during QAMO hours, with the standard of compliance the owner or operator was utilizing for each EGU at the source in an Averaging Demonstration for each month for all EGUs at the source in an Averaging Demonstration in the year covered by the Certification and in the previous year.
- F) Any deviations or exceptions each month and discussion of the reasons for such deviations or exceptions.
- 3) All Annual Certifications of Compliance required to be submitted must include the following certification by a responsible official:

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- 4) The owner or operator of an EGU must submit its first Annual Certification of Compliance to address calendar year 2009 or the calendar year in which the EGU commences commercial operation, whichever is later. Notwithstanding subsection (d)(2) of this Section, in the Annual Certifications of Compliance that are required to be submitted by May 1, 2010, and May 1, 2011, to address calendar years 2009 and 2010, respectively, the owner or operator is not required to provide 12-month rolling data for any period that ends before June 30, 2010.
- e) Deviation Reports. For each EGU, the owner or operator must promptly notify the Agency of deviations from requirements of this Subpart B. At a minimum, these notifications must include a description of such deviations within 30 days after discovery of the deviations, and a discussion of the possible cause of such deviations, any corrective actions, and any preventative measures taken.
- f) Quality Assurance RATA Reports. The owner or operator of an EGU must submit to the Agency, Air Compliance and Enforcement Section, the quality assurance RATA report for each EGU or group of EGUs monitored at a common stack and each non-EGU pursuant to Section 1.16(b)(2)(B) of Appendix B to this Part, within 45 days after completing a quality assurance RATA.

(Source: Amended at 39 Ill. Reg.       , effective       )

**Section 225.291 Combined Pollutant Standard: Purpose**

The purpose of Sections 225.291 through 225.299 (hereinafter referred to as the Combined Pollutant Standard ("CPS")) is to allow an alternate means of compliance with the emissions

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standards for mercury in Section 225.230(a) for specified EGUs through permanent shut-down, installation of ACI, ~~and~~ the application of pollution control technology for NO<sub>x</sub>, PM, and SO<sub>2</sub> emissions, or the conversion of an EGU to a fuel other than coal (such as natural gas or distillate fuel oil with sulfur content no greater than 15 ppm), that also reduce mercury emissions as a co-benefit and to establish permanent emissions standards for those specified EGUs. Unless otherwise provided for in the CPS, owners and operators of those specified EGUs are not excused from compliance with other applicable requirements of Subparts B, C, D, and E.

(Source: Amended at 39 Ill. Reg.     , effective     )

**Section 225.292 Applicability of the Combined Pollutant Standard**

- a) As an alternative to compliance with the emissions standards of Section 225.230(a), the owner or operator of specified EGUs in the CPS located at the Fisk, Crawford, Joliet, Powerton, Waukegan, and Will County power plants may elect for all of those EGUs as a group to demonstrate compliance pursuant to the CPS, which establishes control requirements and emissions standards for NO<sub>x</sub>, PM, SO<sub>2</sub>, and mercury. For this purpose, ownership of a specified EGU is determined based on direct ownership, by holding a majority interest in a company that owns the EGU or EGUs, or by the common ownership of the company that owns the EGU, whether through a parent-subsidiary relationship, as a sister corporation, or as an affiliated corporation with the same parent corporation, provided that the owner or operator has the right or authority to submit a CAAPP application on behalf of the EGU.
- b) A specified EGU is ~~ana coal-fired~~ an EGU listed in Appendix A, irrespective of any subsequent changes in ownership of the EGU or power plant, the operator, unit designation, or name of unit, or the type of fuel combusted (including natural gas or distillate fuel oil with sulfur content no greater than 15 ppm).
- c) The owner or operator of each of the specified EGUs electing to demonstrate compliance with Section 225.230(a) pursuant to the CPS must submit an application for a CAAPP permit modification to the Agency, as provided for in Section 225.220, that includes the information specified in Section 225.293 that clearly states the owner<sup>2</sup>'s or operator<sup>2</sup>'s election to demonstrate compliance with Section 225.230(a) pursuant to the CPS.
- d) If an owner or operator of one or more specified EGUs elects to demonstrate compliance with Section 225.230(a) pursuant to the CPS, then all specified EGUs

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owned or operated in Illinois by the owner or operator as of December 31, 2006, as defined in subsection (a) of this Section, are thereafter subject to the standards and control requirements of the CPS. Such EGUs are referred to as a Combined Pollutant Standard (CPS) group.

- e) If an EGU is subject to the requirements of this Section, then the requirements apply to all owners and operators of the EGU.-

(Source: Amended at 39 Ill. Reg. ~~—~~ \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.293 Combined Pollutant Standard: Notice of Intent**

The owner or operator of one or more specified EGUs that intends to comply with Section 225.230(a) by means of the CPS must notify the Agency of its intention on or before December 31, 2007. The following information must accompany the notification:

- a) The identification of each EGU that will be complying with Section 225.230(a) pursuant to the CPS, with evidence that the owner or operator has identified all specified EGUs that it owned or operated in Illinois as of December 31, 2006, and which commenced commercial operation on or before December 31, 2004;
- b) If an EGU identified in subsection (a) of this Section is also owned or operated by a person different than the owner or operator submitting the notice of intent, a demonstration that the submitter has the right to commit the EGU or authorization from the responsible official for the EGU submitting the application; ~~and~~
- c) A summary of the current control devices installed and operating on each EGU and identification of the additional control devices that will likely be needed for each EGU to comply with emission control requirements of the CPS;:-
- d) Additionally, the owner or operator of a specified EGU that, on or after January 1, 2015, changes the type of primary fuel combusted by the unit or the control device ~~(s)~~ or devices installed and operating on the unit must notify the Agency of such change by January 1, 2017, or within 30 days ~~of~~ after the completion of such change, whichever is later.

(Source: Amended at 39 Ill. Reg. ~~—~~ \_\_\_\_\_, effective \_\_\_\_\_)

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**Section 225.294 Combined Pollutant Standard: Control Technology Requirements and Emissions Standards for Mercury**

- a) Control Technology Requirements for Mercury.
  - 1) For each coal-fired EGU in a CPS group other than an EGU that is addressed by subsection (b) of this Section, the owner or operator of the EGU must install, if not already installed, and properly operate and maintain, by the dates set forth in subsection (a)(2) of this Section, ACI equipment complying with subsections (g), (h), (i), (j), and (k) of this Section, as applicable.
  - 2) By the following dates, for the EGUs listed in subsections (a)(2)(A) and (B), which include hot and cold side ESPs, the owner or operator must install, if not already installed, and begin operating ACI equipment or the Agency must be given written notice that the EGU will be shut down on or before the following dates:
    - A) Fisk 19, Crawford 7, Crawford 8, Waukegan 7, and Waukegan 8 on or before July 1, 2008; and
    - B) Powerton 5, Powerton 6, Will County 3, Will County 4, Joliet 6, Joliet 7, and Joliet 8 on or before July 1, 2009.
- b) Notwithstanding subsection (a) of this Section:
  - 1) ~~The~~The following EGUs are not required to install ACI equipment because they will be permanently shut down, as addressed by Section 225.297, by the date specified:
    - ~~A1)~~ EGUs that are required to permanently shut down:
      - ~~iA~~i) On or before December 31, 2007, Waukegan 6; and
      - ~~iiB~~ii) On or before December 31, 2010, Will County 1 and Will County 2.
    - ~~B2)~~ Any other specified EGU that is permanently shut down by December 31, 2010; and

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- 2) On and after the date an EGU permanently ceases combusting coal, it is not required to install, operate, or maintain ACI equipment.
- c) Beginning on January 1, 2015, and continuing thereafter, and measured on a rolling 12-month basis (the initial period is January 1, 2015, through December 31, 2015, and, then, for every 12-month period thereafter), each specified EGU that has not permanently ceased combusting coal, except Will County 3, shall achieve one of the following emissions standards:
  - 1) An emissions standard of 0.0080 lbs mercury/GWh gross electrical output; or
  - 2) A minimum 90 percent reduction of input mercury.
- d) On and after April 16, 2015, Will County 3 must not combust coal. ~~Beginning on January 1, 2016, and continuing thereafter, Will County 3 shall achieve the mercury emissions standards of subsection (c) of this Section measured on a rolling 12 month basis (the initial period is January 1, 2016, through December 31, 2016, and, then, for every 12 month period thereafter).~~
- e) Compliance with Emission Standards
  - 1) At any time prior to the dates required for compliance in subsections (c) and (d) of this Section, the owner or operator of a specified EGU, upon notice to the Agency, may elect to comply with the emissions standards of subsection (c) of this Section measured on either:
    - A) a rolling 12-month basis; or
    - B) a quarterly calendar basis pursuant to the emissions testing requirements in Section 225.239(a)(4), (c), (d), (e), (f), (g), (h), (i), and (j) of this Subpart until June 30, 2012.
  - 2) Once an EGU is subject to the mercury emissions standards of subsection (c) of this Section, it shall not be subject to the requirements of subsections (g), (h), (i), (j) and (k) of this Section;

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- 3) On and after the date an EGU permanently ceases combusting coal, it shall not be subject to the requirements of subsections (g), (h), (i), (j) and (k) of this Section.
- f) Compliance with the mercury emissions standards or reduction requirement of this Section must be calculated in accordance with Section 225.230(a) or (b), or Section 225.232 until December 31, 2013.
- g) For each EGU for which injection of halogenated activated carbon is required by subsection (a)(1) of this Section, the owner or operator of the EGU must inject halogenated activated carbon in an optimum manner:
  - ~~1) 1)~~ Except as provided in subsection (h) of this Section, optimum manner is defined as all of the following:
    - A) The use of an injection system for effective absorption of mercury, considering the configuration of the EGU and its ductwork;
    - B) The injection of halogenated activated carbon manufactured by Alstom, Norit, or Sorbent Technologies, Calgon Carbon's FLUEPAC CF Plus, or Calgon Carbon's FLUEPAC MC Plus, or the injection of any other halogenated activated carbon or sorbent that the owner or operator of the EGU has demonstrated to have similar or better effectiveness for control of mercury emissions; and
    - C) The injection of sorbent at the following minimum rates, as applicable:
      - i) For an EGU firing subbituminous coal, 5.0 lbs per million actual cubic feet or, for any cyclone-fired EGU that will install a scrubber and baghouse by December 31, 2012, and which already meets an emission rate of 0.020 lb mercury/GWh gross electrical output or at least 75 percent reduction of input mercury, 2.5 lbs per million actual cubic feet;
      - ii) For an EGU firing bituminous coal, 10.0 lbs per million actual cubic feet or, for any cyclone-fired EGU that will

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install a scrubber and baghouse by December 31, 2012, and which already meets an emission rate of 0.020 lb mercury/GWh gross electrical output or at least 75 percent reduction of input mercury, 5.0 lbs per million actual cubic feet;

- iii) For an EGU firing a blend of subbituminous and bituminous coal, a rate that is the weighted average of the rates specified in subsections (g)(1)(C)(i) and (ii) based on the blend of coal being fired; or
- iv) A rate or rates set lower by the Agency, in writing, than the rate specified in any of subsection (g)(1)(C)(i), (ii), or (iii) of this Section on a unit-specific basis, provided that the owner or operator of the EGU has demonstrated that such rate or rates are needed so that carbon injection will not increase particulate matter emissions or opacity so as to threaten noncompliance with applicable requirements for particulate matter or opacity.

422) For purposes of subsection (g)(1)(C) of this Section, the flue gas flow rate shall be the gas flow rate in the stack for all units except for those equipped with activated carbon injection prior to a hot-side electrostatic precipitator; for units equipped with activated carbon injection prior to a hot-side electrostatic precipitator, the flue gas flow rate shall be the gas flow rate at the inlet to the hot-side electrostatic precipitator, which shall be determined as the stack flow rate adjusted through the use of Charles' Law for the differences in gas temperatures in the stack and at the inlet to the electrostatic precipitator ( $V_{esp} = V_{stack} \times T_{esp}/T_{stack}$ , where V = gas flow rate in acf and T = gas temperature in Kelvin or Rankine).

- h) The owner or operator of an EGU that seeks to operate an EGU with an activated carbon injection rate or rates that are set on a unit-specific basis pursuant to subsection (g)(1)(C)(iv) of this Section must submit an application to the Agency proposing such rate or rates, and must meet the requirements of subsections (h)(1) and (h)(2) of this Section, subject to the limitations of subsections (h)(3) and (h)(4) of this Section:

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- 1) The application must be submitted as an application for a new or revised federally enforceable operation permit for the EGU, and it must include a summary of relevant mercury emissions data for the EGU, the unit-specific injection rate or rates that are proposed, and detailed information to support the proposed injection rate or rates;
  - 2) This application must be submitted no later than the date that activated carbon must first be injected. For example, the owner or operator of an EGU that must inject activated carbon pursuant to subsection (a)(1) of this Section must apply for unit-specific injection rate or rates by July 1, 2008. Thereafter, the owner or operator may supplement its application;
  - 3) Any decision of the Agency denying a permit or granting a permit with conditions that set a lower injection rate or rates may be appealed to the Board pursuant to Section 39 of the Act; and
  - 4) The owner or operator of an EGU may operate at the injection rate or rates proposed in its application until a final decision is made on the application including a final decision on any appeal to the Board.
- i) During any evaluation of the effectiveness of a listed sorbent, alternative sorbent, or other technique to control mercury emissions, the owner or operator of an EGU need not comply with the requirements of subsection (g) of this Section for any system needed to carry out the evaluation, as further provided as follows:
- 1) The owner or operator of the EGU must conduct the evaluation in accordance with a formal evaluation program submitted to the Agency at least 30 days prior to commencement of the evaluation;
  - 2) The duration and scope of the evaluation may not exceed the duration and scope reasonably needed to complete the desired evaluation of the alternative control techniques, as initially addressed by the owner or operator in a support document submitted with the evaluation program;
  - 3) The owner or operator of the EGU must submit a report to the Agency no later than 30 days after the conclusion of the evaluation that describes the evaluation conducted and which provides the results of the evaluation; and

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- 4) If the evaluation of alternative control techniques shows less effective control of mercury emissions from the EGU than was achieved with the principal control techniques, the owner or operator of the EGU must resume use of the principal control techniques. If the evaluation of the alternative control technique shows comparable effectiveness to the principal control technique, the owner or operator of the EGU may either continue to use the alternative control technique in a manner that is at least as effective as the principal control technique or it may resume use of the principal control technique. If the evaluation of the alternative control technique shows more effective control of mercury emissions than the control technique, the owner or operator of the EGU must continue to use the alternative control technique in a manner that is more effective than the principal control technique, so long as it continues to be subject to this Section.
  
- j) In addition to complying with the applicable recordkeeping and monitoring requirements in Sections 225.240 through 225.290, the owner or operator of an EGU that elects to comply with this Subpart B by means of Sections 225.291 through 225.299 must also comply with the following additional requirements:
  - 1) For the first 36 months that injection of sorbent is required, it must maintain records of the usage of sorbent, the flue gas flow rate from the EGU (and, if the unit is equipped with activated carbon injection prior to a hot-side electrostatic precipitator, flue gas temperature at the inlet of the hot-side electrostatic precipitator and in the stack), and the sorbent feed rate, in pounds per million actual cubic feet of flue gas, on a weekly average;
  - 2) After the first 36 months that injection of sorbent is required, it must monitor activated sorbent feed rate to the EGU, gas flow rate in the stack, and, if the unit is equipped with activated carbon injection prior to a hot-side electrostatic precipitator, flue gas temperature at the inlet of the hot-side electrostatic precipitator and in the stack. It must automatically record this data and the sorbent carbon feed rate, in pounds per million actual cubic feet of flue gas, on an hourly average; and
  - 3) If a blend of bituminous and subbituminous coal is fired in the EGU, it must keep records of the amount of each type of coal burned and the required injection rate for injection of activated carbon on a weekly basis.

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- k) In addition to complying with the applicable reporting requirements in Sections 225.240 through 225.290, the owner or operator of an EGU that elects to comply with Section 225.230(a) by means of the CPS must also submit quarterly reports for the recordkeeping and monitoring conducted pursuant to subsection (j) of this Section.
- l) Until June 30, 2012, as an alternative to the CEMS (or excepted monitoring system) monitoring, recordkeeping, and reporting requirements in Sections 225.240 through 225.290, the owner or operator of an EGU may elect to comply with the emissions testing, monitoring, recordkeeping, and reporting requirements in Section 225.239(c), (d), (e), (f)(1) and (2), (h)(2), (i)(3) and (4), and (j)(1).
- m) Notwithstanding any other provision in this Subpart, the requirements in Sections 225.240 through 225.290 of this Subpart, and any other mercury-related monitoring, recordkeeping, notice, analysis, certification, and reporting requirements set forth in this Subpart, including in this CPS, will not apply to a specified EGU on and after the date the EGU permanently ceases combusting coal.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.295 Combined Pollutant Standard: Emissions Standards for NO<sub>x</sub> and SO<sub>2</sub>**

- a) Emissions Standards for NO<sub>x</sub> and Reporting Requirements.
  - 1) Beginning with calendar year 2012 and continuing in each calendar year thereafter, the CPS group, which includes all specified EGUs, regardless of the type of fuel combusted, that have not been permanently shut down by December 31 before the applicable calendar year, must comply with a CPS group average annual NO<sub>x</sub> emissions rate of no more than 0.11 lbs/mmBtu.
  - 2) Beginning with ozone season control period 2012 and continuing in each ozone season control period (May 1 through September 30) thereafter, the CPS group, which includes all specified EGUs, regardless of the type of fuel combusted, that have not been permanently shut down by December 31 before the applicable ozone season, must comply with a CPS group

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average ozone season NO<sub>x</sub> emissions rate of no more than 0.11 lbs/mmBtu.

- 3) The owner or operator of the specified EGUs in the CPS group must file, not later than one year after startup of any selective SNCR on such EGU, a report with the Agency describing the NO<sub>x</sub> emissions reductions that the SNCR has been able to achieve.
  - 4) The specified EGUs are not subject to the requirements set forth in 35 Ill. Adm. Code 217, Subpart M, including without limitation the NO<sub>x</sub> emission standards set forth in 35 Ill. Adm. Code 217.344.
- b) Emissions Standards for SO<sub>2</sub>. Beginning in calendar year 2013 and continuing in each calendar year thereafter, the CPS group must comply with the applicable CPS group average annual SO<sub>2</sub> emissions rate listed as follows. For purposes of this subsection (b) only, the CPS group includes only those specified EGUs that combust coal:

year	lbs/mmBtu
2013	0.44
2014	0.41
2015	0.28
2016	0.195
2017	0.15
2018	0.13
2019	0.11

- c) Compliance with the NO<sub>x</sub> and SO<sub>2</sub> emissions standards must be demonstrated in accordance with Sections 225.310, 225.410, and 225.510. The owner or operator of the specified EGUs must complete the demonstration of compliance pursuant to Section 225.298(c) before March 1 of the following year for annual standards and before November 30 of the particular year for ozone season control periods (May 1 through September 30) standards, by which date a compliance report must be submitted to the Agency.
- d) The CPS group average annual SO<sub>2</sub> emission rate, annual NO<sub>x</sub> emission rate and ozone season NO<sub>x</sub> emission rates shall be determined as follows:

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$$ER_{avg} = \frac{\sum_{i=1} (SO_{2i} \text{ or } NO_{xi} \text{ tons})}{\sum_{i=1} (HI_i)}$$

$$ER_{avg} = \frac{\sum_{i=1}^n (SO_{2i} \text{ or } NO_{xi})}{\sum_{i=1}^n (HI_i)}$$

Where:

- ~~ER<sub>avg</sub>~~ = ~~average annual or ozone season emission rate in lbs/mmBtu of all EGUs in the CPS group.~~
- ~~HI<sub>i</sub>~~ = ~~heat input for the annual or ozone control period of each EGU, in mmBtu.~~
- ~~SO<sub>2i</sub>~~ = ~~actual annual SO<sub>2</sub> lbs tons of each EGU in the CPS group.~~
- ~~NO<sub>xi</sub>~~ = ~~actual annual or ozone season NO<sub>x</sub> lbs tons of each EGU in the CPS group.~~
- ~~N~~ = ~~number of EGUs that are in the CPS group.~~
- ~~I~~ = ~~each EGU in the CPS group.~~

- ER<sub>avg</sub> = average annual or ozone season emission rate in lbs/mmBtu of all EGUs in the CPS group.
- HI<sub>i</sub> = heat input for the annual or ozone control period of each EGU, in mmBtu.
- SO<sub>2i</sub> = actual annual SO<sub>2</sub> lbs of each EGU in the CPS group.
- NO<sub>xi</sub> = actual annual or ozone season NO<sub>x</sub> lbs of each EGU in the CPS group.
- n = number of EGUs that are in the CPS group.
- i = each EGU in the CPS group.

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

**Section 225.296 Combined Pollutant Standard: Control Technology Requirements for NO<sub>x</sub>, SO<sub>2</sub>, and PM Emissions**

- a) Control Technology Requirements for NO<sub>x</sub> and SO<sub>2</sub>.

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- 1) On or before December 31, 2013, the owner or operator must either permanently shut down or install and have operational FGD equipment on Waukegan 7;
  - 2) On or before December 31, 2014, the owner or operator must either permanently shut down or install and have operational FGD equipment on Waukegan 8;
  - 3) On or before December 31, 2015, the owner or operator must either permanently shut down or install and have operational FGD equipment on Fisk 19;
  - 4) If Crawford 7 will be operated after December 31, 2018, and not permanently shut down by this date, the owner or operator must:
    - A) On or before December 31, 2015, install and have operational SNCR or equipment capable of delivering essentially equivalent NO<sub>x</sub> reductions on Crawford 7; and
    - B) On or before December 31, 2018, install and have operational FGD equipment on Crawford 7;
  - 5) If Crawford 8 will be operated after December 31, 2017 and not permanently shut down by this date, the owner or operator must:
    - A) On or before December 31, 2015, install and have operational SNCR or equipment capable of delivering essentially equivalent NO<sub>x</sub> emissions reductions on Crawford 8; and
    - B) On or before December 31, 2017, install and have operational FGD equipment on Crawford 8.
- b) Other Control Technology Requirements for SO<sub>2</sub>. On and after April 16, 2015, Will County 3 must not combust coal. On and after December 31, 2016, Joliet 6, 7, and 8 must not combust coal. Owners or operators of the other specified EGUs must either permanently shut down, permanently cease combusting coal at, or install FGD equipment on each specified EGU (except Will County 4 ~~Joliet 5~~), on or before December 31, 2018, unless an earlier date is specified in subsection (a) of this Section.

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- c) Control Technology Requirements for PM. The owner or operator of ~~the Waukegan~~the Waukegan 7 EGU ~~two specified EGUs listed in this subsection that is are~~that is equipped with a hot-side ESP must replace the hot-side ESP with a cold-side ESP, install an appropriately designed fabric filter, or permanently shut down the EGU by December 31, ~~2014~~the dates specified 2014. Hot-side ESP means an ESP on a coal-fired boiler that is installed before the boiler's air-preheater where the operating temperature is typically at least 550° F, as distinguished from a cold-side ESP that is installed after the air pre-heater where the operating temperature is typically no more than 350° F.
- 1) ~~Waukegan 7 on or before December 31, 2013; and~~
  - 2) ~~Will County 3 on or before December 31, 2015.~~
- d) Beginning on December 31, 2008, and annually thereafter up to and including December 31, 2015, the owner or operator of the Fisk power plant must submit in writing to the Agency a report on any technology or equipment designed to affect air quality that has been considered or explored for the Fisk power plant in the preceding 12 months. This report will not obligate the owner or operator to install any equipment described in the report.
- e) Notwithstanding 35 Ill. Adm. Code 201.146(hhh), until an EGU has complied with the applicable requirements of subsections 225.296(a), (b), and (c), the owner or operator of the EGU must obtain a construction permit for any new or modified air pollution control equipment that it proposes to construct for control of emissions of mercury, NO<sub>x</sub>, PM, or SO<sub>2</sub>.

(Source: Amended at 39 Ill. Reg. ~~\_\_\_\_\_~~, effective \_\_\_\_\_)

**Section 225.298 Combined Pollutant Standard: Requirements for NO<sub>x</sub> and SO<sub>2</sub> allowances**Allowances

- a) The following requirements apply to the owner and operator with respect to SO<sub>2</sub> and NO<sub>x</sub> allowances, which mean, for the purposes of this Section 225.298, allowances necessary for compliance with Section 225.310, 225.410, or 225.510, 40 CFR 72, or ~~Ssubparts~~subparts AA and AAAA of 40 CFR 96, or any future

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federal NO<sub>x</sub> or SO<sub>2</sub> emissions trading programs that modify or replace these programs:

- 1) The owner or operator of specified EGUs in a CPS group ~~is permitted to~~ may sell, trade, or transfer any and all SO<sub>2</sub> and NO<sub>x</sub> emissions allowances of any vintage owned, allocated to, or earned by the specified EGUs (the "CPS allowances") ~~to its affiliated Homer City, Pennsylvania, generating station for as long as the Homer City Station needs the CPS allowances for compliance.~~ ~~12) When and if the Homer City Station no longer requires all of the CPS allowances, The~~ the owner or operator of specified EGUs in a CPS group may sell, trade, or transfer any and all SO<sub>2</sub> and NO<sub>x</sub> emissions allowances of any vintage owned, allocated to, or earned by the specified EGUs (the "CPS allowances") remaining CPS allowances, without restriction, to any person or entity located anywhere, except that the owner or operator may not directly sell, trade, or transfer CPS allowances to a unit located in Ohio, Indiana, Illinois, Wisconsin, Michigan, Kentucky, Missouri, Iowa, Minnesota, or Texas.
- ~~233)~~ In no event shall this subsection (a) require or be interpreted to require any restriction whatsoever on the sale, trade, or exchange of the CPS allowances by persons or entities who have acquired the CPS allowances from the owner or operator of specified EGUs in a CPS group.
- b) The owner or operator of EGUs in a specified CPS group is prohibited from purchasing or using SO<sub>2</sub> and NO<sub>x</sub> allowances for the purposes of meeting the SO<sub>2</sub> and NO<sub>x</sub> emissions standards set forth in Section 225.295.
- c) By March 1, 2010, and continuing each year thereafter, the owner or operator of the EGUs in a CPS group must submit a report to the Agency that demonstrates compliance with the requirements of this Section for the previous calendar year and ozone season control period (May 1 through September 30), and includes identification of any NO<sub>x</sub> or SO<sub>2</sub> allowances that have been used for compliance with any NO<sub>x</sub> or SO<sub>2</sub> trading programs, and any NO<sub>x</sub> or SO<sub>2</sub> allowances that were sold, gifted, used, exchanged, or traded. A final report must be submitted to the Agency by August 31 of each year, providing either verification that the actions described in the initial report have taken place, or, if such actions have not taken place, an explanation of the changes that have occurred and the reasons for such changes.

~~ILLINOIS REGISTER~~ [JCAR350225-1507176r01](#)

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(Source: Amended at 39 Ill. Reg.              , effective                     )

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		<u>8</u>	<u>Unit 8 Boiler BLR8</u>	<u>Waukegan 8</u>
Will County 197810AAK	1	1	Unit 1 Boiler BLR 1	Will County 1
	<del>2</del>	<del>2</del>	<del>Unit 2 Boiler BLR 2</del>	<del>Will County 2</del>
	<del>3</del>	<del>3</del>	<del>Unit 3 Boiler BLR 3</del>	<del>Will County 3</del>
	<del>4</del>	<del>4</del>	<del>Unit 4 Boiler BLR 4</del>	<del>Will County 4</del>
		<u>2</u>	<u>Unit 2 Boiler BLR2</u>	<u>Will County 2</u>
		<u>3</u>	<u>Unit 3 Boiler BLR3</u>	<u>Will County 3</u>
		<u>4</u>	<u>Unit 4 Boiler BLR4</u>	<u>Will County 4</u>

(Source: Amended at 39 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

Document comparison by Workshare Compare on Monday, May 18, 2015  
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Moved to	1
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