ILLINOIS POLLUTION CONTROL BOARD May 7, 2015

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)	R15-21
))	(Rulemaking - Air)
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Proposed Rule. First Notice.

ORDER OF THE BOARD (by J.A. Burke):

On April 28, 2015, the Illinois Environmental Protection Agency (Agency) filed a rulemaking generally proposing to control emissions of sulfur dioxide (SO₂) in and around areas designated as nonattainment with respect to the 2010 SO₂ National Ambient Air Quality Standard (NAAQS). The rulemaking was filed pursuant to Sections 4, 10, 27, 28, and 28.2 of the Environmental Protection Act (Act) (415 ILCS 5/4, 10, 27, 28, 28.2 (2012)) and Section 102.202 of the Board's procedural rules (35 Ill. Adm. Code 102.202). The Agency filed a total of fourteen documents and one disc, including a motion for expedited review (Review Mot.) and a motion for waiver of copy requirements (Waiver Mot.). The Agency also filed a motion to amend the rulemaking proposal (Mot. Amend) on April 30, 2015.

For the reasons stated below, the Board accepts the Agency's rulemaking proposal for hearing and grants the Agency's motion to amend its proposal. The Board also grants the Agency's motion for expedited review, and grants the Agency's motion for waiver of copy requirements. Without commenting on the substantive merits of the proposed amendments, the Board directs the Clerk to provide first notice of the proposal.

BRIEF SUMMARY OF THE AGENCY'S PROPOSAL

The Agency filed a number of documents with its proposal, including a statement of reasons (SR). The Agency states that portions of its proposal are intended to meet certain obligations of Illinois under the federal Clean Air Act (CAA) (42 U.S.C. § 7401 *et seq.*). SR at 1. These provisions

are intended to satisfy Illinois' obligation to submit a State Implementation Plan (SIP) to the United States Environmental Protection Agency (USEPA) to address requirements under Sections 172, 191, and 192 of the CAA for sources of SO_2 emissions in areas designated as nonattainment with respect to the 2010 SO_2 NAAQS. SR at 1.

The Agency includes additional proposals that are not federally required "but are intended to aid Illinois' attainment planning efforts with respect to future rounds of attainment designations for the SO₂ NAAQS." *Id.* at 1-2. The Agency further states that

portions of the proposal are the product of stakeholder outreach efforts, and are intended to address stakeholder requests and concerns; while some of these provisions involve pollutants other than SO₂, they are related to Illinois' attainment planning efforts for the SO₂ standard and are thus included with this rulemaking proposal. SR at 2.

The Agency states that the proposed amendments will

1) establish sulfur content limitations for liquid fuels used by fuel combustion emission units throughout the State; 2) establish SO_2 emission limitations for specific sources impacting an SO_2 [nonattainment area]; 3) address the conversion of certain coal-fired electric generating units (EGUs) located in or near an SO_2 [nonattainment area] to fuel other than coal; and 4) correct or update various existing provisions. SR at 2.

Part 214 Revisions

The Agency proposal requires that fuel combustion emission units throughout Illinois comply with sulfur content limitations of 1000 parts per million for residual fuel oil and 15 parts per million for distillate fuel oil, with certain specific exceptions. SR at 6. Owners or operators of subject emission units are required to maintain records demonstrating compliance with the limitations. *Id.* at 6-7.

The proposal also creates a new Subpart AA requiring particular sources contributing to nonattainment to comply with SO_2 emission limits. SR at 7. The Agency explains that

[c]ertain emission units must utilize a continuous emissions monitoring system (CEMS) or an alternative monitoring method available under 40 CFR 75 to demonstrate compliance with the emission limitations, while other units must either utilize a CEMS or conduct performance testing in compliance with specified testing provisions. SR at 7-8.

Sources are required to comply with recordkeeping and reporting requirements. SR at 8.

Part 217 and Part 225 Revisions

The Agency proposes amendments to Parts 217 and 225 as a result of stakeholder outreach and to address stakeholder requests and concerns. SR at 8.

Midwest Generation, LLC approached the Agency regarding the company's plans to potentially convert several coal-fired EGUs located in or near the Lemont nonattainment area (specifically Units 6, 7, and 8 at Midwest Generation's Joliet station and Unit 3 at its Will

County station) to combust only fuel other than coal. SR at 9-10. The Agency therefore proposes amendments to address the potential conversion of these units and specifies the NO_x limitations that will be applicable to these units. *Id.* at 11.

The Agency proposes amendments to Parts 214 and 225 that require the above units to permanently cease combusting coal. SR at 11. In Subpart AA of Part 214, the Agency proposes emission limits that reflect combustion of fuel other than coal. *Id.* In Part 225, the Agency proposes establishing deadlines after which these units are no longer allowed to combust coal. *Id.* The proposal also addresses applicable NO_x emission limitations by requiring EGUs listed in Appendix A to Part 225 to remain subject to the Combined Pollutant Standard, including the NO_x limitations, regardless of the type of fuel combusted. *Id.* The proposal further provides that EGUs subject to the Combined Pollutant Standard are exempt from NO_x emission limits in Subpart M, regardless of the type of fuel combusted. *Id.*

The Agency proposes collateral amendments related to the above. SR at 11. The Agency proposes amending 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 CPS or the mercury-related emission rates, monitoring, recordkeeping, notice, analysis, certification, or reporting requirements set forth in the Illinois Mercury Rule/CPS. SR at 11-12.

The Agency also proposes "specifying that EGUs that convert to fuel other than coal are not subject to the CPS group average annual SO₂ emission rate set forth in Section 225.295(b) of the CPS." SR at 12. These units will instead be subject to unit-specific SO₂ emission limitations under the proposed Subpart AA in Part 214. *Id*.

Midwest Generation intends to continue combusting coal at Unit 4 at the Will County station, and requested from the Agency that the unit be exempted from the requirement to install flue gas desulfurization equipment on or before December 31, 2018. SR. at 12. The Agency states that, in light of the SO₂ emission reductions that will result from the conversion of the above units, it proposes implementing Midwest Generation's request in Part 225 and in the proposed emission limitations applicable to Will County Unit 4 in Part 214. *Id.* Midwest Generation also requested changes to provisions in the CPS that permit the sale or trade of NO_x and SO₂ allowances to the Homer City, Pennsylvania generating station, due to a change in Midwest Generation's affiliation with the station. *Id.* at 12-13. The Agency proposes amendments implementing this request. *Id.* at 13. The Agency notes that its proposal is not intended to alter the variances recently granted by the Board to Midwest Generation. *Id.*

SIP Revisions

The Agency intends to submit to USEPA all revisions to Part 214 as part of Illinois' SIP for the 2010 SO₂ NAAQS. SR. at 14. The Agency intends to submit to USEPA revisions to Sections 225.291, 225.292, 225.293, 225.295, and 225.296 (except 225.296(d)) of Part 225, and Appendix A to Part 225, as revisions to Illinois' Regional Haze SIP. *Id.* at 15. The Agency

further intends to submit to USEPA revisions to Subpart Q of Part 217 as revisions to Illinois' NO_x SIP Call Phase II SIP. *Id.*

The Agency does not currently intend to submit to USEPA revisions to sections of Part 225 other than those mentioned above, or revisions to Subpart M of Part 217, as Subpart M is not currently part of Illinois' SIP. SR at 16.

AMENDED PROPOSAL

On April 30, 2015, the Agency filed a motion to amend portions of its rulemaking proposal (Mot. Amend). The Agency states that it intended the proposed amendments to Part 214 "to impose fuel sulfur content limitations upon all stationary sources burning diesel fuel in Illinois, with certain specific exceptions." Mot. Amend at 1. The Agency "recently discovered that its current proposal has a narrower applicability than intended." *Id.* The Agency states

[t]he proposed fuel sulfur content limitations only appear in Subparts B and D of Part 214, and thus only apply to fuel combustion emission units/sources within the State. Process emission sources on the other hand, regulated under Subpart K of Part 214 and defined in Part 211 as "any stationary emission source other than a fuel combustion emission unit or an incinerator," are not subject to these limits. Mot. Amend at 1-2.

The Agency therefore proposes amending Subpart K of Part 214 to specify that the proposed fuel sulfur content limits also apply to process emission sources. Mot. Amend at 2. Further, as some of the exceptions to the fuel sulfur content limits in Subpart D of Part 214 involve process emission sources, not fuel combustion emission units, the Agency proposes moving these exceptions to Subpart K. *Id.*

The Agency also amends its proposal to include Appendix A to the *Technical Support Document for Proposed Rule Revisions Necessary to Demonstrate Attainment of the One-hour NAAQS for Oxides of Sulfur*, which the Agency states was inadvertently omitted from the Agency's original proposal. Mot. Amend at 10.

The Board grants the Agency's motion to amend its rulemaking proposal and includes the proposed amendments to Part 214 below as they appear in Exhibit 2 to the Agency's motion to amend.

BOARD DISCUSSION

Motion for Expedited Review

The Agency contends that expedited review of this rulemaking is necessary in order to fulfill Illinois' obligation under the CAA to submit for USEPA's approval a SIP providing for attainment of the 2010 SO₂ NAAQS in the Lemont and Pekin nonattainment areas by the deadline set forth in the CAA. Review Mot. at 1. Illinois was required to submit its SIP by April 6, 2015. *Id.* at 2. The Agency further states that resolution of this rulemaking on an expedited

basis "will aid the Agency's attainment planning efforts regarding future rounds of attainment designations for the SO₂ NAAQS, which may involve additional areas in Illinois being designated as nonattainment." *Id.* at 3.

Requests for expedited review are addressed in Section 101.512 of the Board's procedural rules. *See* 35 Ill. Adm. Code 101.512. In deciding a motion for expedited review, the Board considers statutory requirements and whether material prejudice will result from the motion being granted or denied. 35 Ill. Adm. Code 101.512(b). The Board will only grant a motion for expedited review consistent with available resources. *See* 35 Ill. Adm. Code 101.512(c).

The Board grants the Agency's motion for expedited review, consistent with the Board's resources. Accordingly, the Board proceeds to first notice publication without commenting on the substantive merits of the proposal. Further, the Board directs its hearing officer to avoid unnecessary delay in scheduling hearings or otherwise completing the record.

Motion for Waiver of Copy Requirements

Section 101.302 of the Board's procedural rules requires that the original and three copies of each regulatory proposal be filed with the Clerk. 35 Ill. Adm. Code 101.302(h). Section 102.202 of the Board's procedural rules requires that a regulatory proposal of general applicability include any material to be incorporated by reference within the proposed rule. 35 Ill. Adm. Code 102.202(d).

The Agency incorporates by reference into its proposal specific documents that consist of several hundred pages and "are all part of the Code of Federal Regulations, are all readily accessible to or are within the possession of the Board, and are all publicly available online." Waiver Mot. at 2. The Agency therefore asks that the Board waive the requirement that the Agency provide copies of these documents. *Id.*

Pursuant to Section 102.110 of the Board's procedural rules, the Board may waive any non-statutory requirements of its regulatory procedural rules upon a showing by a person that a particular requirement would create an undue burden on that person. 35 Ill. Adm. Code 102.110. The Board grants the Agency's request, and waives the copy requirements for the following documents incorporated by reference:

A) 40 CFR 60, Appendix A (2014):

Method 1: Sample and Velocity Traverses for Stationary Sources;

Method 2: Determination of Stack Gas Velocity and Volumetric Flow Rate;

Method 3: Gas Analysis for the Determination of Dry Molecular Weight;

Method 4: Determination of Moisture Content in Stack Gases;

Method 6: Determination of Sulfur Dioxide Emissions From Stationary Sources;

Method 6A: Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide Emissions From Fossil Fuel Combustion Sources;

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

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

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

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), Performance Tests
- C) Tutwiler Procedure for hydrogen sulfide, 40 CFR 60.648 (2014)
- D) 40 CFR 75 (2014)
- E) USEPA's Emission Measurement Center Guideline Document (GD-042), Preparation and Review of Site-Specific Emission Test Plans, Revised March 1999.

First Notice and Hearing

The Board accepts the rulemaking for hearing. 35 Ill. Adm. Code 102.202. The Board will hold at least two hearings on the proposal under Section 28 of the Act. 415 ILCS 5/28 (2012). The assigned hearing officer will establish dates and locations for the hearings. The Board directs its hearing officer to avoid unnecessary delay in scheduling hearings. After considering the issues raised at the hearings and in public comments, the Board will determine whether to issue a second-notice opinion and order for review by the Joint Commission on Administrative Rules. Any adopted rules will be published in the *Illinois Register*.

Public Comment

The Board today adopts the proposed rule amendments for first notice under the Illinois Administrative Procedures Act (5 ILCS 100/5-40 (2012)) without commenting on the proposal's merits. First-notice publication in the *Illinois Register* of these proposed amendments starts a period of at least 45 days during which anyone may file a public comment with the Board. The docket number for this rulemaking, R15-21, should be indicated on the public comment.

Public comments must be filed with the Clerk of the Board. Public comments may be filed at the following address:

Pollution Control Board John Therriault, Clerk James R. Thompson Center 100 W. Randolph Street, Suite 11-500 Chicago, IL 60601

In addition, public comments may be filed electronically through the Clerk's Office On-Line (COOL) on the Board's Web site at www.ipcb.state.il.us. Any questions about electronic filing through COOL should be directed to the Clerk's Office at (312) 814-3629.

CONCLUSION

For the reasons stated above, the Board accepts the Agency's rulemaking proposal for hearing. Without substantive comments on the merits, the Board directs the Clerk to provide first notice of the proposal. The Board grants the Agency's motion to amend its proposal, grants the Agency's motion for expedited review, and grants the Agency's motion for waiver of copy requirements. The Board directs its hearing officer to avoid unnecessary delay in scheduling hearings or otherwise completing the record.

<u>ORDER</u>

The Board directs the Clerk to cause the first-notice publication of the following rule in the *Illinois Register*:

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

SUBPART A: GENERAL PROVISIONS

Section

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- 214.101 Measurement Methods
- 214.102 Abbreviations and Units
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SUBPART B: NEW FUEL COMBUSTION EMISSION SOURCES

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Section

- 214.181 Dispersion Enhancement Techniques
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SUBPART F: ALTERNATIVE STANDARDS FOR SOURCES INSIDE METROPOLITAN AREAS

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214.202	Dispersion Enhancement Techniques

SUBPART K: PROCESS EMISSION SOURCES

Section	
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214.302	Exception for Air Pollution Control Equipment
214.303	Use of Sulfuric Acid
214.304	Fuel Burning Process Emission Source

<u>214.305</u> Fuel Sulfur Content Limitations

SUBPART O: PETROLEUM REFINING, PETROCHEMICAL AND CHEMICAL MANUFACTURING

Section

- 214.380 Scope
- 214.381 Sulfuric Acid Manufacturing
- 214.382 Petroleum and Petrochemical Processes
- 214.383 Chemical Manufacturing
- 214.384 Sulfate and Sulfite Manufacturing

SUBPART P: STONE, CLAY, GLASS AND CONCRETE PRODUCTS

Section

- 214.400 Scope
- 214.401 Glass Melting and Heat Treating
- Lime Kilns

SUBPART Q: PRIMARY AND SECONDARY METAL MANUFACTURING

Section

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

214.521 Winnetka Power Plant

SUBPART X: UTILITIES

Section

Section

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

SUBPART AA: REQUIREMENTS FOR CERTAIN SO₂ SOURCES

S	e	ct	ion	
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- <u>214.600</u> <u>Definitions</u>
- <u>214.601</u> <u>Applicability</u>
- <u>214.602</u> <u>Compliance Deadline</u>
- <u>214.603</u> <u>Emission Limitations</u>
- <u>214.604</u> <u>Monitoring and Testing</u>

<u>214.605</u> <u>Recordkeeping and Reporting</u>

Appendix-APPENDIX A
Appendix-APPENDIX BRule into Section TableAppendix-APPENDIX B
Appendix-APPENDIX CSection into Rule TableAppendix-APPENDIX C
Effective Height of EffluentMethod used to Determine Average Actual Stack Height andAppendix-APPENDIX DPast Compliance Dates

AUTHORITY: Implementing Section 10 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/10 and 27].

SOURCE: Adopted as Chapter 2: Air Pollution, Rule 204: Sulfur Emission Standards and Limitations, R71-23, 4 PCB 191, filed and effective April 14, 1972; amended in R74-2 and R75-5, 32 PCB 295, at 3 III. Reg. 5, p. 777, effective February 3, 1979; amended in R74-2, R75-5, 38 PCB 129, at 4 III. Reg. 28, p. 417, effective June 26, 1980; amended in R78-17, 40 PCB 291, at 5 III. Reg. 1892, effective February 17, 1981; amended in R77-15, 44 PCB 267, at 6 III. Reg. 2146, effective January 28, 1982; amended and renumbered in R80-22(A), at 7 III. Reg. 4220, effective March 28, 1983; codified 7 III. Reg. 13579; amended in R80-22(B), at 8 III. Reg. 6172, effective April 24, 1984; amended in R84-28, at 10 III. Reg. 9806, effective May 20, 1986; amended in R86-31, at 12 III. Reg. 17387, effective October 14, 1988; amended in R86-30, at 12 III. Reg. 20778, effective December 5, 1988; amended in R87-31 at 15 III. Reg. 1017, effective January 15, 1991; amended in R02-21 at 27 III. Reg. 12101, effective July 11, 2003; amended in R04-12/20 at 30 III. Reg. 9671, effective May 15, 2006; amended in R15-21 at 39 III. Reg. ______, effective ______.

SUBPART A: GENERAL PROVISIONS

Section 214.101 Measurement Methods

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

- a) Sulfur Dioxide Measurement. Measurement of sulfur dioxide emissions from stationary sources shall be made according to an applicable method specified in 40 CFR 60, Appendix A, Method 6, 6A, 6B, or 6C, incorporated by reference in Section 214.104(a), or by measurement procedures established pursuant to 40 CFR 60.8(b), incorporated by reference in Section 214.104(b), or by an installed certified continuous emissions monitoring system, or by an alternative monitoring method available under 40 CFR 75, incorporated by reference in Section 214.10(e). (III. Rev. Stat. 1989, ch. 111 1/2, par. 1010.)
- b) Sulfuric Acid Mist and Sulfur Trioxide Measurement. Measurement of sulfuric acid mist and sulfur trioxide shall be according to the barium-thorin titration method specified in 40 CFR 60, Appendix A, Method 8, incoporated 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 million-mmBtu/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.

- ed) Weekly Analysis Method. This subsection applies to sources at plants with total solid fuel-fired heat input capacity exceeding 146.5 MW (500 million mmBtu/hr) but not exceeding 439.5 MW (1500 million mmBtu/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 millions-mmBtu/hr) but not exceeding 146.5 MW (500 million-mmBtu/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 million-mmBtu/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.
- 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 III. Reg.____, effective____)

Section 214.102 Abbreviations and Units

a) The following abbreviations are used in this Part:

BTU or btu	British thermal units (60 F)
ft	foot
gr	grains
Ĵ	Joule

kg	kilogram
kg/MW-hr	kilograms per megawatt-hour
km	kilometer
lbs	pounds
Ibs/mm <u>B</u> ətu	pounds per million <u>B</u> btu
m	meter
mg	milligram
Mg	megagram, metric ton or tonne
mi	mile
mm <u>B</u> ətu	million British thermal units
mm <u>B</u> ətu/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
Т	English ton

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
mm <u>B</u> ətu/hr	0.293 MW
1 Ib/mm <u>B</u> ətu	1.548 kg/MW-hr
1 mi	1.61 km
1 gr/scf	2289 mg/scm

(Source: Amended at 39 Ill. Reg.____, effective_____)

Section 214.103 Definitions

<u>Unless otherwise indicated, the The</u> 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 (19892014):
 - 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;
- <u>4)</u> <u>Method 4: Determination of Moisture Content in Stack Gases;</u>
- 4<u>5</u>) Method 6: Determination of Sulfur Dioxide Emissions From Stationary Sources;
- 26) Method 6A: Determination of Sulfur Dioxide, Moisture, and Carbon Dioxide Emissions From Fossil Fuel Combustion Sources;
- 37) Method 6B: Determination of Sulfur Dioxide and Carbon Dioxide Daily Average Emissions From Fossil Fuel Combustion Sources;
- 4<u>8</u>) Method 6C: Determination of Sulfur Dioxide Emissions From Stationary Sources (Instrumental Analyzer Procedure);
- 59) 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) (1989<u>2014</u>), 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) ASTM D-3286 (1985)
- d) Tutwiler Procedure for hydrogen sulfide, 40 CFR 60.648 (19892014).

- <u>e)</u> <u>40 CFR 75 (2014).</u>
- <u>f)</u> <u>USEPA's Emission Measurement Center Guideline Document (GD-042),</u> <u>Preparation and Review of Site-Specific Emission Test Plans, Revised March</u> <u>1999).</u>

(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 $73.2 \text{ MW} (250 \text{ mm} \underline{B} \underline{b} tu/hr)$.

- 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 mmBbtu/hr), burning solid fuel exclusively, to exceed 1.86 kg of sulfur dioxide per MW-hr of actual heat input (1.2 lbs/mmBbtu).
 (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.
 - <u>Prior to January 1, 2017, no No</u> 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 mmBbtu/hr), burning liquid fuel exclusively, to exceed the following:
 - 1<u>A</u>) To exceed 1.2 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (0.8 lbs/mm<u>B</u>btu); and
 - 2<u>B</u>) To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mm<u>B</u>btu);-
 - 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:
 - <u>A)</u> The sulfur content of all residual fuel oil used by the fuel combustion emission source must not exceed 1000 ppm:

- <u>B)</u> The sulfur content of all distillate fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and
- <u>C)</u> <u>The owner or operator must:</u>
 - 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 indicting 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 receipt of a request by the Agency; and
 - <u>Notify the Agency within 30 days after discovery of</u> <u>deviations from any of the requirements in this subsection</u> (b)(2). At minimum, and in addition to any permitting <u>obligations, such notification must include a description of</u> <u>the deviations, a discussion of the possible cause of the</u> <u>deviations, any corrective actions taken, and an</u> <u>preventative measures taken.</u>

(Source: Amended at 39 Ill. Reg.____, effective_____)

Section 214.122 Small Sources

This section applies to new fuel combustion emission sources with actual heat input smaller than, or equal to, 73.2 MW (250 mm<u>B</u>+tu/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 mm<u>B</u>btu/hr), burning solid fuel exclusively, to exceed 2.79 kg of sulfur dioxide per MW-hr of actual heat input (1.8 lbs/mm<u>B</u>btu).
- b) Liquid Fuel Burned Exclusively.
 - <u>Prior to January 1, 2017, no No</u> person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any new fuel combustion <u>emission</u> source with actual heat input smaller than, or equal to, 73.2 MW (250 mm<u>B</u>btu/hr), burning liquid fuel exclusively, to exceed the following:

- $1\underline{A}$) To exceed 1.55 kg of sulfur dioxide per MW-hr of actual heat input when residential fuel oil is burned (1.0 lbs/mm \underline{B} tu); and
- $2\underline{B}$) To exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mm<u>B</u>btu)<u>+</u>.
- 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/hr), burning liquid fuel exclusively, must comply with the following:
 - <u>A)</u> The sulfur content of all residual fuel oil used by the fuel combustion emission source must not exceed 1000 ppm;
 - <u>B)</u> The sulfur content of all distillate fuel oil used by the fuel combustion emission source must not exceed 15 ppm; and
 - <u>C)</u> 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 receipt of a request by the Agency; and
 - <u>Notify the Agency within 30 days after discovery of</u> <u>deviations from any of the requirements in this subsection</u> (b)(2). At minimum, and in addition to any permitting <u>obligations, such notification must include a description of</u> <u>the deviations, a discussion of the possible cause of the</u> <u>deviations, any corrective actions taken, and any</u> <u>preventative measures taken.</u>

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

SUBPART D: EXISTING LIQUID OR MIXED FUEL COMBUSTION EMISSION SOURCES

Section 214.161 Liquid Fuel Burned Exclusively

<u>a)</u> <u>Prior to January 1, 2017, no No</u> 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 <u>following</u>:

- a<u>1</u>) To exceed 1.55 kg of sulfur dioxide per MW-hr of actual heat input when residual fuel oil is burned (1.0 lbs/mm<u>B</u>btu); 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/mm<u>Bb</u>tu).
- b) Except as provided in subsections (c), (d), and €of this Section, 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 combustion emission source must not exceed 1000 ppm;
 - 2) The sulfur content of all distillate fu el oil used by the fuel combustion emission source must not exceed 15 ppm; and
 - <u>3) The owner or operator must:</u>
 - 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 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 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.
- <u>c)</u> 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 Greenwood Avenue, Waukegan, IL), and Will County station (located at or near 529 East 135th, Romeoville, IL). The owner or operator of such electric generating units must instead comply with the following:

- 1) From January 1, 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, 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:
 - <u>A)</u> <u>Maintain records demonstrating that the distillate fuel oil</u> purchased from January 1, 2016, through December 31, 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, through December 31, 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 receipt of 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 (c). 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.

- 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, 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 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 (c). 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.
- <u>d)</u> 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 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
 - <u>B)</u> 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:
 - A) Maintain records demonstrating that the distillate fuel oil purchased on and after January 1, 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, 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;

- <u>C)</u> 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 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 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 = SSHS + SdHd + SRHR

b) Symbols in the equation mean the following:

E = allowable sulfur dioxide emission rate;

- SS = solid fuel sulfur dioxide emission standard which is applicable;
- Sd = 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;
- Hd = actual heat input from distillate fuel oil;
- HR = 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 HS;
 - 2) From the burning of gaseous fuels produced by the gasification of distillate fuel oil shall be included in Hd;

- 3) From the burning of gaseous fuels produced by the gasification of residual fuel oil shall be included in HR;
- 4) From the burning of gaseous fuels produced by the gasification of any other liquid fuel shall be included in HR; 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 HR.
- 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_S, S_R	kg/MW-hr	lbs/mm <u>B</u> btu
S _d prior to January	0.46 kg/MW-hr	0.3 lbs/mm <u>B</u> btu
<u>1, 2017</u>		
S _d on and after January	<u>0.023 kg/MW-hr</u>	0.0015 lb/mmBtu
<u>1, 2017</u>		
H_S, H_d, H_R	MW	mm <u>B</u> ətu/hr

(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 mm<u>B</u>btu of actual heat input for any such fuel combustion emission source, up to a maximum or 6.8 pounds of sulfur dioxide per mm<u>B</u>btu 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, however, excuses a source subject to Subpart AA of this Part from complying with the requirements set forth in such 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 approval of such standard for a revision of its operating permit for 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 Subparts N 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 2000 ppm<u>on a dry</u> basis, when averaged over a one-hour period.

(Source: Amended at 39 Ill. Reg.____, effective____)

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, 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
 - <u>3)</u> 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 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.
- <u>b</u>) 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 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 fuel oil must not exceed 500 ppm. The owner or operator of the process emission sources described above 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, 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 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 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.
- <u>c)</u> 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 Montgomery facility (located at or near 325 South Route 31, Montgomery, IL).

The owner or operator of such 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
 - <u>B)</u> 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, for use by the process emission sources complies with the requirements in subsection (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, 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;
 - <u>C)</u> 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 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 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.
- <u>The sulfur content limitation for distillate fuel oil in subsection (a)(2) of this</u> <u>Section does not apply to existing electric generating units at Midwest</u> <u>Generation's Fisk station (located at or near 1111 W. Cermak Road, Chicago, IL)</u> <u>or Waukegan station (located at or near 401 East Greenwood Avenue, Waukegan, IL). The owner or operator of such electric generating units must instead comply</u> <u>with the following:</u>

- 1) From January 1, 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, 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) <u>The owner or operator must:</u>
 - A) Maintain records demonstrating that the distillate fuel oil purchased from January 1, 2016, through December 31, 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, through December 31, 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 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 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 = SSHS + SdHd + SRHR + SGHG

- b) Symbols in the equation mean the following:
 - E = allowable sulfur dioxide emission rate;
 - SS = solid fuel sulfur dioxide emission standard which is applicable;
 - Sd = distillate oil sulfur dioxide emission standard determined from the table in subsection (d);
 - SR = residual oil sulfur dioxide emission standard which is applicable;
 - SG = 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.
 - HS = actual heat input from solid fuel;
 - Hd = actual heat input from distillate fuel oil;
 - HR = actual heat input from residual fuel oil;
 - HG = 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 HS;
 - 2) From the burning of gaseous fuels produced by the gasification of distillate fuel oil shall be included in Hd;
 - 3) From the burning of gaseous fuels produced by the gasification of residual fuel oil shall be included in HR; and
 - 4) From the burning of gaseous fuels produced by the gasification of any other liquid fuel shall be included in HG.

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

Parameter	Metric	English
Е	kg/hr	lbs/hr
SS, SR, SG	kg/MW-hr	lbs/mm <u>B</u> btu
Sd prior to January 1,	0.46 kg/MW-hr	0.3 lbs/mm <u>B</u> btu
<u>2017</u>		
<u>S_d on and after</u>	<u>0.023 kg/MW-hr</u>	<u>0.0015 lb/mmBtu</u>
January 1, 2017		
H_S, H_d, H_R, H_G	MW	mm <u>B</u> btu/hr

(Source: Amended at 39 Ill. Reg._____, effective_____)

SUBPART AA: REQUIREMENTS FOR CERTAIN SO2 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 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 2nd Street, Pekin, IL.

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

"Ingredion Bedford Park" means the corn wet milling source located at or near 6400 South 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 135th, Romeoville, IL.

"Owens Corning" means the asphalt and roofing products manufacturing source located at or near 5824 South 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) <u>Aventine Renewable Energy;</u>
 - 2) <u>Illinois Power Holdings E.D. Edwards;</u>
 - <u>3)</u> 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.
- c) Nothing in this Subpart relieves a source of the obligation to comply with the air quality standards set forth in 35 Ill. Adm. Code 243, or with any other applicable requirement set forth in this Part.

(Source: Added at 39 Ill. Reg.____, effective____)

Section 214.602 Compliance Deadline

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

(Source: Added at 39 Ill. Reg.____, effective____)

Section 214.603 Emission Limitations

The owner or operator of a source must comply with the following emission limitations, as applicable, expressed in terms of pounds of SO₂ emitted per clock hour.

<u>a)</u>	<u>Aven</u>	<u>lb/hr</u>	
	<u>1)</u>	<u>Cyclone East controlling First</u> <u>Germ Drying System</u>	<u>0.27</u>
	<u>2)</u>	<u>Cyclone West controlling First</u> <u>Germ Drying System</u>	<u>0.37</u>
	<u>3)</u>	Second Germ Drying System	<u>0.01</u>
	<u>4)</u>	<u>Gluten Dryer 4</u>	<u>3.12</u>
	<u>5)</u>	<u>Gluten Dryer 9</u>	<u>10.50</u>
	<u>6)</u>	<u>Germ Dryer 1</u>	<u>4.98</u>
	<u>7)</u>	Germ Dryer 3	<u>4.26</u>
	<u>8)</u>	Yeast Dryer	<u>1.50</u>
	<u>9)</u>	<u>Scrubber controlling Steep</u> <u>Acid Tower</u>	<u>1.79</u>
	<u>10)</u>	Biogas Flare	<u>0.001</u>
	<u>11)</u>	Boiler A	<u>0.00</u>
	<u>12)</u>	Boiler B	<u>0.00</u>
	<u>13)</u>	Boiler C	<u>0.00</u>
<u>b)</u>	<u>Illino</u>	<u>lb/hr</u>	
	<u>1)</u>	Units 1 and 2 combined	2100.00
	<u>2)</u>	<u>Unit 3</u>	<u>2756.00</u>
	<u>3)</u>	Unit 3, if both Units 1 and 2 permanently shut down	4000.00
<u>c)</u>	Ingre	<u>lb/hr</u>	
	<u>1)</u>	Feed Transport System	<u>24.38</u>
	<u>2)</u>	Wet Milling: Inside In-Process	<u>107.26</u>
	<u>3)</u>	<u>Wet Milling: Molten Sulfur Burner</u> and Absorption System	<u>7.01</u>

	<u>4)</u>	Wet Milling: Outside In-Process Tanks	<u>2.69</u>
	<u>5)</u>	Germ Processing Facility Channel 1 System	<u>13.3</u>
	<u>6)</u>	Germ Processing Facility Channel 2 System	<u>7.07</u>
	<u>7)</u>	Germ Processing Facility Channel 3 System	<u>7.07</u>
	<u>8)</u>	Germ Processing Facility Channel 4 System	7.07
<u>d)</u>	<u>Midw</u>	vest Generation Joliet	<u>lb/hr</u>
	<u>1)</u>	Joliet 9: Unit 6	<u>189.82</u>
	<u>2)</u>	Joliet 29: Unit 7	<u>323.29</u>
	<u>3)</u>	Joliet 29: Unit 8	<u>342.15</u>
<u>e)</u>	Midw	vest Generation Powerton	<u>lb/hr</u>
	<u>1)</u>	Boilers 51, 52 (Unit 5) and 61, 62 (Unit 6) combined	<u>3452.00</u>

- 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 the end of each averaging period, the owner or operator must use the following equation to determine the combined SO₂ 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 SO₂ 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:

- $\underline{E}_{avg} = \underline{SO}_2$ emission rate for the averaging period, in lb/hr.
- $\underline{E_{h}} = \underline{SO_{2} \text{ emission rate for stack operating hour "h" in the averaging}}_{period. For purposes of this Subpart, a stack operating hour is a clock hour in which valid data is obtained, and in which gases flow through the monitored stack or duct for the emission units addressed in subsection (e)(1) of this Section (either for part of the hour or for the entire hour) while at least one of the units is combusting fuel.$
- $\frac{n}{valid} = \frac{Number of stack operating hours in the averaging period in which}{valid data is obtained.}$

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

(Source: Added at 39 Ill. Reg.____, effective_____)

Section 214.604 Monitoring and Testing

- 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, 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, install, calibrate, maintain, and operate a continuous emissions monitoring system for the measurement of SO_2 emissions in accordance with 40 CFR 75 (except 40 CFR 75.31-34), incorporated by reference in Section 214.104 of this Part, and subsection (d) of this Section, or utilize an alternative monitoring method available to the emission unit under 40 CFR 75:
 - 1) <u>Illinois Power Holdings E.D. Edwards;</u>
 - 2) <u>Midwest Generation Joliet;</u>
 - 3) Midwest Generation Powerton; and
 - <u>4)</u> 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, 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 SO₂ emissions in accordance with 40 CFR 60 or 40 CFR 75 (except 40 CFR 75.31-34), incorporated by reference in Section 214.104 of this Part, and subsection (d) of this Section.
- <u>d)</u> 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 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 units;
 - 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 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 75.31-34 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 or operator's own expense:
 - <u>Conduct an initial performance test after January 1, 2015, and prior to</u> 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 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 testing is necessary to demonstrate compliance with the requirements in Section 214.603 of this Subpart. Such 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;
 - <u>Submit a testing protocol as described in USEPA's Emission</u> <u>Measurement Center Guideline Document (GD-042), incorporated by</u> <u>reference in Section 214.104 of this Part, to the Agency at least 45 days</u> <u>prior to a scheduled emissions test, unless such deadline is waived in</u> <u>writing by the Agency;</u>
 - 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 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 1, 2, 3, 4, 6, 6A, 6B, 6C, or 19, incorporated by reference in Section 214.104 of this Part, 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 SO₂ 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 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;
 - 2) For a source with an emission unit demonstrating compliance through performance testing:
 - <u>A)</u> 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) <u>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 parameters will ensure ongoing compliance with the applicable limitation in Section 214.603 of this Subpart and the specific</u>

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) <u>A description of the method(s) the source will use to comply with all</u> <u>applicable emission limitations in Section 214.603 of this Subpart,</u> <u>including a description of all control devices used and, for sources with</u> <u>emission units demonstrating compliance through performance testing, the</u> <u>operating parameters for such devices.</u>
- b) The owner or operator of a source must keep and maintain records that demonstrate ongoing compliance with the requirements of this Subpart. Such records must include the following:
 - <u>1)</u> 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 SO₂ 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 SO₂ control equipment for such unit, if such malfunction causes an exceedance of any applicable emission limitation in Section 214.603 of this Subpart, and the date, time, and duration of any malfunction in the operation of any SO₂ emissions monitoring equipment for such 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) <u>A log of all inspections, cleaning, maintenance, and repair activities</u> performed on SO₂ control equipment for an emission unit addressed in Section 214.603 of this Subpart, including the date and nature of such activities. Such 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 SO₂ 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) 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. 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 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 submittal must be made prior to discontinuing operation of the continuous emissions monitoring system:
 - <u>A)</u> 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
 - <u>C)</u> <u>A description of the measures the source will take to ensure the emission unit continues to operate within the parameters</u>
enumerated in the testing results submitted to the Agency for each test used to demonstrate compliance, including how such 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 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 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. 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.
- <u>f)</u> 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 records to the Agency within 30 days of receipt of a request by the Agency.

(Source: Added at 39 Ill. Reg.____, effective____)

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

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

Source: Adopted as Chapter 2: Air Pollution, Rule 207: Nitrogen Oxides Emissions, R71-23, 4 PCB 191, April 13, 1972, filed and effective April 14, 1972; amended at 2 Ill. Reg. 17, p. 101, effective April 13, 1978; codified at 7 Ill. Reg. 13609; amended in R01-9 at 25 Ill. Reg. 128, effective December 26, 2000; amended in R01-11 at 25 Ill. Reg. 4597, effective March 15, 2001; amended in R01-16 and R01-17 at 25 Ill. Reg. 5914, effective April 17, 2001; amended in R07-18 at 31 Ill. Reg. 14254, 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 Ill. Reg. _______.

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 NO_x 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-or the combined pollutant standard.
- <u>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.</u>

(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:
 - 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. NO_x 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 NO_x 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:
 - A portable NO_x monitor utilizing method ASTM D6522-00, as incorporated by reference in Section 217.104, or a method approved by the Agency must be used. If the engine or turbine combusts both liquid and gaseous fuels as primary or backup fuels, separate monitoring is required for each fuel.
 - 2) NO_x and O_2 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 NO_x 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____)

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

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- 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)
- 225.615 Control Technology Requirements and Emissions Standards for Mercury (Repealed)
- 225.620 Emissions Standards for NO_x and SO₂ (Repealed)
- 225.625 Control Technology Requirements for NO_x, SO₂, and PM Emissions (Repealed)
- 225.630 Permanent Shut-Downs (Repealed)
- 225.635 Requirements for CAIR SO₂, CAIR NO_x, and CAIR NO_x 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 Procedures225. EXHIBIT C Conversion Procedures225 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_____.

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.
- 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.

- Except as otherwise indicated in this Subpart, the 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, the 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 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.
 - 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 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 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:
 - 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 CO₂ or O₂ 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 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:
 - 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 SO₂ 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.
 - 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.
 - 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 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.

(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_i) 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) <u>or that has permanently ceased combusting coal,</u> must fulfill the following requirements:

- 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 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;
 - 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.

(Source: Amended at 39 Ill. Reg.____, effective_____)

Section 225.290 Recordkeeping and Reporting

- a) General Provisions.
 - 1) <u>Except as otherwise indicated in this Subpart, the The</u> 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) 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.
- 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 Section2.2 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:

- 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 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 together for the quarter) of the coal combusted in each EGU. If the EGU is complying by means of Sections 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 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 12 months of data is not available). This applicable data is determined according to the following requirements:
 - 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:
 - 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 SO₂ emission data recorded in accordance with the 40 CFR 75 document that the flue gas desulfurization system was operating properly, or qualityassured NO_X 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.
 - 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;
 - Emissions during QAMO hours, in lbs, and mercury content in the fuel fired in such EGU, in lbs, for each 12month rolling period ending in the year covered by the Certification; and

- 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
 - 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
 - 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:

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_x , PM, and SO_2 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 cobenefit 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

- 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 <u>the</u> 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_x, PM, SO₂, 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 <u>ana coal-fired</u> 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's or operator'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 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) installed and operating on the unit must notify the Agency of such change by January 1, 2017, or within 30 days of the completion of such change, whichever is later.

(Source: Amended at 39 Ill. Reg.____, effective____)

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

- a) Control Technology Requirements for Mercury.
 - 1) For each <u>coal-fired</u> 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) <u>Thethe</u> 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:
 - $\underline{A1}$) EGUs that are required to permanently shut down:
 - iA) On or before December 31, 2007, Waukegan 6; and
 - <u>ii</u>B) On or before December 31, 2010, Will County 1 and Will County 2.
 - <u>B</u>2) Any other specified EGU that is permanently shut down by December 31, 2010<u>; and-</u>
 - 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
 - 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.
- 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:
- 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) 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:
 - 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 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)(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.
- 42) 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 ($V_{esp} = V_{stack} \ge T_{esp}/T_{stack}$, 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:
 - 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 unitspecific 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:
 - 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 or it may resume use of the principal control technique. If the evaluation of the alternative control technique. If the evaluation of 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, the owner or operator of the EGU must control technique, the alternative 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 hotside electrostatic precipitator, flue gas temperature at the inlet of the hotside 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.
- 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.
- 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).
- <u>Notwithstanding any other provision in this Subpart, the requirements in Sections</u> 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_x and SO₂

- a) Emissions Standards for NO_x 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_x 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 <u>fuel combusted</u>, that have not been permanently shut down by December 31 before the applicable ozone season, must comply with a CPS group average ozone season NO_x 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_x emissions reductions that the SNCR has been able to achieve.
 - $\frac{4)}{\text{Adm. Code 217, Subpart M, including without limitation the NO_x}} \frac{4}{100}$
- b) Emissions Standards for SO₂. Beginning in calendar year 2013 and continuing in each calendar year thereafter, the CPS group must comply with the applicable CPS group average annual SO₂ 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_x and SO_2 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_2 emission rate, annual NO_x emission rate and ozone season NO_x emission rates shall be determined as follows:

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

Where:

$ER_{avg} =$	average annual or ozone season emission rate in
, i i i i i i i i i i i i i i i i i i i	lbs/mmBbtu of all EGUs in the CPS group.
HI_{i} =	heat input for the annual or ozone control period of each
	EGU, in mmBtu.
$SO_{2i} =$	actual annual SO2 lbstons of each EGU in the CPS
	group.
$NO_{xi} =$	actual annual or ozone season NO_x <u>lbstons</u> 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_x, SO₂, and PM Emissions

- a) Control Technology Requirements for NO_x and SO₂.
 - 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;
 - 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_x 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_x 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 SO₂. On and after April 16, 2015, Will County 3 must not combust coal. <u>On and after December 31, 2016, Joliet 6,</u> <u>7, and 8 must not combust coal.</u> Owners or operators <u>of the other specified EGUs</u> must either permanently shut down, <u>permanently cease combusting coal at</u>, or install FGD equipment on each specified EGU (except <u>Will County 4Joliet 5</u>), on or before December 31, 2018, unless an earlier date is specified in subsection (a) of this Section.
- c) Control Technology Requirements for PM. The owner or operator of the<u>Waukegan 7 EGU</u> two specified EGUs listed in this subsection that <u>isare</u> 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 <u>December 31, 2014</u>the dates specified. 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_x, PM, or SO₂.

(Source: Amended at 39 Ill. Reg._____, effective_____) Section 225.298 Combined Pollutant Standard: Requirements for NO_x and SO₂ allowances

- a) The following requirements apply to the owner and operator with respect to SO₂ and NO_x 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 Subparts AA and AAAA of 40 CFR 96, or any future federal NO_x or SO₂ emissions trading programs that modify or replace these programs:
 - 1) The owner or operator of specified EGUs in a CPS group is permitted to sell, trade, or transfer SO₂ and NO_x 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, Thethe owner or operator of specified EGUs in a CPS group may sell, trade, or transfer any and all SO_2 and NO_x 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.
 - <u>23</u>) 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_2 and NO_x allowances for the purposes of meeting the SO_2 and NO_x 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_x or SO_2 allowances that have been used for compliance with any NO_x or SO_2 trading programs, and any NO_x or SO_2 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____)

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

Plant	Permit Number	Boiler	Permit designation	CPS Designation
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 72 81 82 5	Unit 7 Boiler BLR 71 Unit 7 Boiler BLR 72 Unit 8 Boiler BLR 81 Unit 8 Boiler BLR 82 Unit 6 Boiler BLR 5	Joliet 7 Joliet 7 Joliet 8 Joliet 8 Joliet 6
Powerton	179801AAA	51 52 61 62	Unit 5 Boiler BLR 51 Unit 5 Boiler BLR 52 Unit 6 Boiler BLR 61 Unit 6 Boiler BLR 62	Powerton 5 Powerton 5 Powerton 6 Powerton 6
Waukegan	097190AAC	17 7 8	Unit 6 Boiler BLR 17 Unit 7 Boiler BLR 7 Unit 8 Boiler BLR 8	Waukegan 6 Waukegan 7 Waukegan 8
Will County	197810AAK	8 1 2 3 4	Unit 1 Boiler BLR 3 Unit 2 Boiler BLR 2 Unit 3 Boiler BLR 3 Unit 4 Boiler BLR 4	Will County 1 Will County 2 Will County 3 Will County 4
(Source: Amended at 39 Ill. Reg			, effective)

IT IS SO ORDERED.

I, John T. Therriault, Clerk of the Illinois Pollution Control Board, certify that the Board adopted the above order on May 7, 2015, by a vote of 5-0.

In T. Therian চ্য

John T. Therriault, Clerk Illinois Pollution Control Board