

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: Control of Emissions from Large Combustion Sources
- 2) Code Citation: 35 Ill. Adm. Code 225
- 3) Section Number: 225.233      Proposed Action: Amendment
- 4) Statutory Authority: Implementing and authorized by Sections 10 and 27 of the Environmental Protection Act [415 ILCS 5/10 and 27].
- 5) A Complete Description of the Subjects and Issues Involved: The proposal will provide certain coal-fired electric generating units owned by Dynegy in central and southern Illinois with additional flexibility in complying with the Multi-Pollutant Standard (MPS) under Part 225, the Illinois mercury rule. The MPS establishes control requirements and emission standards for nitrogen oxides, sulfur dioxide, and mercury. The proposed amendments relate only to the MPS's annual and seasonal emission standards for NO<sub>x</sub> and annual standard for SO<sub>2</sub>, and would provide operational flexibility in complying with those standards while protecting air quality.
- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None cited by IEPA.
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? No
- 10) Are there any other rulemakings pending on this Part? No
- 11) Statement of Statewide Policy Objective: This proposed rulemaking does not create or enlarge a State mandate, as defined in Section 3(b) of the State Mandates Act [30 ILCS 805/3(b)].
- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the *Illinois Register*. Public comments must be filed with the Clerk of the Board. Public comments should reference Docket R18-20 and be addressed to:

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NOV 01 2017

STATE OF ILLINOIS  
Pollution Control Board

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## NOTICE OF PROPOSED AMENDMENT

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

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

Interested persons may request copies of the Board's opinion and order in R18-20 by calling the Clerk's office at 312/814-3620, or may download copies from the Board's Web site at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

For more information, contact hearing officer Mark Powell at 312/814-6887 or by e-mail at [mark.powell@illinois.gov](mailto:mark.powell@illinois.gov).

13) Initial Regulatory Flexibility Analysis:

- A) Types of small businesses, small municipalities and not-for-profit corporations affected: None
- B) Reporting, bookkeeping or other procedures required for compliance: None
- C) Types of Professional skills necessary for compliance: None

14) Regulatory Agenda on which this rulemaking was summarized: July 2017

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

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

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

9  
10 SUBPART A: GENERAL PROVISIONS

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

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

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

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Pollution Control Board

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47	225.294	Combined Pollutant Standard: Control Technology Requirements and Emissions
48		Standards for Mercury
49	225.295	Combined Pollutant Standard: Emissions Standards for NO <sub>x</sub> and SO <sub>2</sub>
50	225.296	Combined Pollutant Standard: Control Technology Requirements for NO <sub>x</sub> , SO <sub>2</sub> ,
51		and PM Emissions
52	225.297	Combined Pollutant Standard: Permanent Shut-Downs
53	225.298	Combined Pollutant Standard: Requirements for NO <sub>x</sub> and SO <sub>2</sub> Allowances
54	225.299	Combined Pollutant Standard: Clean Air Act Requirements

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

59	Section	
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62	225.310	Compliance Requirements
63	225.315	Appeal Procedures
64	225.320	Permit Requirements
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SUBPART D: CAIR NO<sub>x</sub> ANNUAL TRADING PROGRAM

69	Section	
70	225.400	Purpose
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73	225.415	Appeal Procedures
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98	225.525	Ozone Season Trading Budget
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101	225.540	Ozone Season Allocations
102	225.545	New Unit Set-Aside (NUSA)
103	225.550	Monitoring, Recordkeeping and Reporting Requirements for Gross Electrical
104		Output and Useful Thermal Energy
105	225.555	Clean Air Set-Aside (CASA)
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111		
112		SUBPART F: COMBINED POLLUTANT STANDARDS
113		
114	225.600	Purpose (Repealed)
115	225.605	Applicability (Repealed)
116	225.610	Notice of Intent (Repealed)
117	225.615	Control Technology Requirements and Emissions Standards for Mercury
118		(Repealed)
119	225.620	Emissions Standards for NO <sub>x</sub> and SO <sub>2</sub> (Repealed)
120	225.625	Control Technology Requirements for NO <sub>x</sub> , SO <sub>2</sub> , and PM Emissions (Repealed)
121	225.630	Permanent Shut Downs (Repealed)
122	225.635	Requirements for CAIR SO <sub>2</sub> , CAIR NO <sub>x</sub> , and CAIR NO <sub>x</sub> Ozone Season
123		Allowances (Repealed)
124	225.640	Clean Air Act Requirements (Repealed)
125		
126	225.APPENDIX A	Specified EGUs for Purposes of the CPS (Coal-Fired Boilers as of July 1,
127		2006)
128	225.APPENDIX B	Continuous Emission Monitoring Systems for Mercury
129	225.EXHIBIT A	Specifications and Test Procedures

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

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

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138 SOURCE: Adopted in R06-25 at 31 Ill. Reg. 129, effective December 21, 2006; amended in  
139 R06-26 at 31 Ill. Reg. 12864, effective August 31, 2007; amended in R09-10 at 33 Ill. Reg.  
140 10427, effective June 26, 2009; amended in R15-21 at 39 Ill. Reg. 16225, effective December 7,  
141 2015; amended in R18-20 at 42 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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

145  
146 **Section 225.233 Multi-Pollutant Standards (MPS)**

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148 a) General-

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- 150 1) As an alternative to compliance with the emissions standards of Section
- 151 225.230(a), the owner of eligible EGUs may elect for those EGUs to
- 152 demonstrate compliance pursuant to this Section, which establishes
- 153 control requirements and standards for emissions of NO<sub>x</sub> and SO<sub>2</sub>, as well
- 154 as for emissions of mercury.
- 155
- 156 2) For the purpose of this Section, the following requirements apply:
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- 158 A) An eligible EGU is an EGU that is located in Illinois and which
- 159 commenced commercial operation on or before December 31,
- 160 2004; and
- 161
- 162 B) Ownership of an eligible EGU is determined based on direct
- 163 ownership, by the holding of a majority interest in a company that
- 164 owns the EGU or EGUs, or by the common ownership of the
- 165 company that owns the EGU, whether through a parent-subsidary
- 166 relationship, as a sister corporation, or as an affiliated corporation
- 167 with the same parent corporation, provided that the owner has the
- 168 right or authority to submit a CAAPP application on behalf of the
- 169 EGU.
- 170
- 171 3) The owner of one or more EGUs electing to demonstrate compliance
- 172 with this Subpart B pursuant to this Section must submit an application

173 for a CAAPP permit modification to the Agency, as provided in Section  
174 225.220, that includes the information specified in subsection (b) of this  
175 Section and which clearly states the owner's election to demonstrate  
176 compliance pursuant to this Section 225.233.  
177

178 A) If the owner of one or more EGUs elects to demonstrate  
179 compliance with this Subpart pursuant to this Section, then all  
180 EGUs it owns in Illinois as of July 1, 2006, as defined in  
181 subsection (a)(2)(B) of this Section, must be thereafter subject to  
182 the standards and control requirements of this Section, except as  
183 provided in subsection (a)(3)(B). Such EGUs must be referred to  
184 as a Multi-Pollutant Standard (MPS) Group.  
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186 B) Notwithstanding the foregoing, the owner may exclude from an  
187 MPS Group any EGU scheduled for permanent shutdown that the  
188 owner so designates in its CAAPP application required to be  
189 submitted pursuant to subsection (a)(3) of this Section, with  
190 compliance for such units to be achieved by means of Section  
191 225.235.  
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193 4) Notwithstanding any contrary provision in this subsection (a), on and after  
194 January 1, 2018:  
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196 A) The following EGUs shall be merged into a new MPS Group:  
197 Baldwin Units 1, 2, and 3; Coffeen Units 1 and 2; Duck Creek Unit  
198 1; E.D. Edwards Units 2 and 3; Havana Unit 9; Hennepin Units 1  
199 and 2; Joppa Units 1, 2, 3, 4, 5, and 6; and Newton Unit 1. If one  
200 or more of the above EGUs are transferred to a different owner,  
201 such EGU or EGUs will become a separate MPS Group on and  
202 after the date of transfer. For purposes of this Section, "transfer"  
203 means sale, conveyance, transfer, or other change in ownership of  
204 an EGU; and  
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206 B) No other EGUs except for those listed in subsection (a)(4)(A) of  
207 this Section are subject to the requirements of this Section.  
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209 54) When an EGU is subject to the requirements of this Section, the  
210 requirements apply to all owners or operators of the EGU.  
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212 b) Notice of Intent-

213 The owner of one or more EGUs that intends to comply with this Subpart B by  
214 means of this Section must notify the Agency of its intention by December 31,  
215 2007. The following information must accompany the notification:

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- 1) The identification of each EGU that will be complying with this Subpart B by means of the multi-pollutant standards contained in this Section, with evidence that the owner has identified all EGUs that it owned in Illinois as of July 1, 2006 and which commenced commercial operation on or before December 31, 2004;
  - 2) If an EGU identified in subsection (b)(1) ~~of this Section~~ is also owned or operated by a person different than the owner 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 accepting the application;
  - 3) The Base Emission Rates for the EGUs, with copies of supporting data and calculations;
  - 4) 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 the each EGU to comply with emission control requirements of this Section, including identification of each EGU in the MPS group that will be addressed by subsection (c)(1)(B) ~~of this Section~~, with information showing that the eligibility criteria for this subsection (b) are satisfied; and
  - 5) Identification of each EGU that is scheduled for permanent shut down, as provided by Section 225.235, which will not be part of the MPS Group and which will not be demonstrating compliance with this Subpart B pursuant to this Section.
- c) Control Technology Requirements for Emissions of Mercury:
- 1) Requirements for EGUs in an MPS Group:
    - A) For each EGU in an MPS Group other than an EGU that is addressed by subsection (c)(1)(B) ~~of this Section~~ for the period beginning July 1, 2009 (or December 31, 2009 for an EGU for which an SO<sub>2</sub> scrubber or fabric filter is being installed to be in operation by December 31, 2009), and ending on December 31, 2014 (or such earlier date that the EGU is subject to the mercury emission standard in subsection (d)(1) ~~of this Section~~), the owner or operator of the EGU must install, to the extent not already installed, and properly operate and maintain one of the following emission control devices:



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- i) A Halogenated Activated Carbon Injection System, complying with the sorbent injection requirements of subsection (c)(2) of this Section, except as may be otherwise provided by subsection (c)(4) of this Section, and followed by a Cold-Side Electrostatic Precipitator or Fabric Filter; or
  - ii) If the boiler fires bituminous coal, a Selective Catalytic Reduction (SCR) System and an SO<sub>2</sub> Scrubber.
- B) An owner of an EGU in an MPS Group has two options under this subsection (c). For an MPS Group that contains EGUs smaller than 90 gross MW in capacity, the owner may designate any such EGUs to be not subject to subsection (c)(1)(A) of this Section. Or, for an MPS Group that contains EGUs with gross MW capacity of less than 115 MW, the owner may designate any such EGUs to be not subject to subsection (c)(1)(A) of this Section, provided that the aggregate gross MW capacity of the designated EGUs does not exceed 4% of the total gross MW capacity of the MPS Group. For any EGU subject to one of these two options, unless the EGU is subject to the emission standards in subsection (d)(2) of this Section, beginning on January 1, 2013, and continuing until such date that the owner or operator of the EGU commits to comply with the mercury emission standard in subsection (d)(2) of this Section, the owner or operator of the EGU must install and properly operate and maintain a Halogenated Activated Carbon Injection System that complies with the sorbent injection requirements of subsection (c)(2) of this Section, except as may be otherwise provided by subsection (c)(4) of this Section, and followed by either a Cold-Side Electrostatic Precipitator or Fabric Filter. The use of a properly installed, operated, and maintained Halogenated Activated Carbon Injection System that meets the sorbent injection requirements of subsection (c)(2) of this Section is defined as the "principal control technique."
- 2) For each EGU for which injection of halogenated activated carbon is required by subsection (c)(1) of this Section, the owner or operator of the EGU must inject halogenated activated carbon in an optimum manner, which, except as provided in subsection (c)(4) of this Section, is defined as all of the following:

- 300 A) The use of an injection system designed for effective absorption of  
301 mercury, considering the configuration of the EGU and its  
302 ductwork;  
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- 304 B) The injection of halogenated activated carbon manufactured by  
305 Alstom, Norit, or Sorbent Technologies, Calgon Carbon's  
306 FLUEPAC CF Plus, or Calgon Carbon's FLUEPAC MC Plus, or  
307 the injection of any other halogenated activated carbon or sorbent  
308 that the owner or operator of the EGU has demonstrated to have  
309 similar or better effectiveness for control of mercury emissions;  
310 and  
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- 312 C) The injection of sorbent at the following minimum rates, as  
313 applicable:  
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- 315 i) For an EGU firing subbituminous coal, 5.0 lbs per million  
316 actual cubic feet or, for any cyclone-fired EGU that will  
317 install a scrubber and baghouse by December 31, 2012, and  
318 which already meets an emission rate of 0.020 lbs  
319 mercury/GWh gross electrical output or at least 75 percent  
320 reduction of input mercury, 2.5 lbs per million actual cubic  
321 feet;  
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- 323 ii) For an EGU firing bituminous coal, 10.0 lbs per million  
324 actual cubic feet for any cyclone-fired EGU that will install  
325 a scrubber and baghouse by December 31, 2012, and which  
326 already meets an emission rate of 0.020 lb mercury/GWh  
327 gross electrical output or at least 75 percent reduction of  
328 input mercury, 5.0 lbs per million actual cubic feet;  
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- 330 iii) For an EGU firing a blend of subbituminous and  
331 bituminous coal, a rate that is the weighted average of the  
332 above rates, based on the blend of coal being fired; or  
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- 334 iv) A rate or rates set lower by the Agency, in writing, than the  
335 rate specified in any of subsections (c)(2)(C)(i),  
336 (c)(2)(C)(ii), or (c)(2)(C)(iii) ~~of this Section~~ on a unit-  
337 specific basis, provided that the owner or operator of the  
338 EGU has demonstrated that such rate or rates are needed so  
339 that carbon injection will not increase particulate matter  
340 emissions or opacity so as to threaten noncompliance with  
341 applicable requirements for particulate matter or opacity.  
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- 343 D) For the purposes of subsection (c)(2)(C) of this Section, the flue  
 344 gas flow rate shall be the gas flow rate in the stack for all units  
 345 except for those equipped with activated carbon injection prior to a  
 346 hot-side electrostatic precipitator; for units equipped with activated  
 347 carbon injection prior to a hot-side electrostatic precipitator, the  
 348 flue gas flow rate shall be the gas flow rate at the inlet to the hot-  
 349 side electrostatic precipitator, which shall be determined as the  
 350 stack flow rate adjusted through the use of Charles' Law for the  
 351 differences in gas temperatures in the stack and at the inlet to the  
 352 electrostatic precipitator ( $V_{esp} = V_{stack} \times T_{esp}/T_{stack}$ , where V = gas  
 353 flow rate in acf and T = gas temperature in Kelvin or Rankine  
 354
- 355 3) The owner or operator of an EGU that seeks to operate an EGU with an  
 356 activated carbon injection rate or rates that are set on a unit-specific basis  
 357 pursuant to subsection (c)(2)(C)(iv) of this Section must submit an  
 358 application to the Agency proposing such rate or rates, and must meet the  
 359 requirements of subsections (c)(3)(A) and (c)(3)(B) of this Section, subject  
 360 to the limitations of subsections (c)(3)(C) and (c)(3)(D) of this Section:  
 361
- 362 A) The application must be submitted as an application for a new or  
 363 revised federally enforceable operating permit for the EGU, and it  
 364 must include a summary of relevant mercury emission data for the  
 365 EGU, the unit-specific injection rate or rates that are proposed, and  
 366 detailed information to support the proposed injection rate or rates;  
 367 and  
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- 369 B) This application must be submitted no later than the date that  
 370 activated carbon must first be injected. For example, the owner or  
 371 operator of an EGU that must inject activated carbon pursuant to  
 372 subsection (c)(1)(A) of this subsection must apply for unit-specific  
 373 injection rate or rates by July 1, 2009. Thereafter, the owner or  
 374 operator of the EGU may supplement its application; and  
 375
- 376 C) Any decision of the Agency denying a permit or granting a permit  
 377 with conditions that set a lower injection rate or rates may be  
 378 appealed to the Board pursuant to Section 39 of the Act; and  
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- 380 D) The owner or operator of an EGU may operate at the injection rate  
 381 or rates proposed in its application until a final decision is made on  
 382 the application, including a final decision on any appeal to the  
 383 Board.  
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- 4) During any evaluation of the effectiveness of a listed sorbent, an alternative sorbent, or other technique to control mercury emissions, the owner or operator of an EGU need not comply with the requirements of subsection (c)(2) ~~of this Section~~ for any system needed to carry out the evaluation, as further provided as follows:
- A) 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;
  - B) 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 technique, as initially addressed by the owner or operator in a support document submitted with the evaluation program;
  - C) 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
  - D) If the evaluation of the alternative control technique shows less effective control of mercury emissions from the EGU than was achieved with the principal control technique, the owner or operator of the EGU must resume use of the principal control technique. If the evaluation of the alternative control technique shows comparable effectiveness to the principal control technique, the owner or operator of the EGU may either continue to use the alternative control technique in a manner that is at least as effective as the principal control technique, or it may resume use of the principal control technique. If the evaluation of the alternative control technique shows more effective control of mercury emissions than the control technique, the owner or operator of the EGU must continue to use the alternative control technique in a manner that is more effective than the principal control technique, so long as it continues to be subject to this subsection (c).
- 5) 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 this Section must also comply with the following additional requirements:

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- A) 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, on a weekly average;
  - B) After the first 36 months that injection of sorbent is required, it must monitor activated sorbent feed rate to the EGU, gas flow rate in the stack, and, if the unit is equipped with activated carbon injection prior to a hot-side electrostatic precipitator, flue gas temperature at the inlet of the hot-side electrostatic precipitator and in the stack. It must automatically record this data and the sorbent carbon feed rate, in pounds per million actual cubic feet of flue gas, on an hourly average; and
  - C) 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.
- 6) Until June 30, 2012, as an alternative to the CEMS or excepted monitoring system (sorbent trap 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).
- 7) 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 this Subpart B by means of this Section must also submit quarterly reports for the recordkeeping and monitoring conducted pursuant to subsection (c)(5) of this Section.
- d) Emission Standards for Mercury:-
- 1) For each EGU in an MPS Group that is not addressed by subsection (c)(1)(B) ~~of this Section~~, beginning January 1, 2015 (or such earlier date when the owner or operator of the EGU notifies the Agency that it will comply with these standards) and continuing thereafter, the owner or operator of the EGU must comply with one of the following standards on a rolling 12-month basis:

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- A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or
  - B) A minimum 90-percent reduction of input mercury.
- 2) For each EGU in an MPS Group that has been addressed under subsection (c)(1)(B) ~~of this Section~~, beginning on the date when the owner or operator of the EGU notifies the Agency that it will comply with these standards and continuing thereafter, the owner or operator of the EGU must comply with one of the following standards on a rolling 12-month basis:
- A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or
  - B) A minimum 90-percent reduction of input mercury.
- 3) Compliance with the mercury emission standard or reduction requirement of this subsection (d) must be calculated in accordance with Section 225.230(a) or (d), or Section 225.232 until December 31, 2013.
- 4) Until June 30, 2012, as an alternative to demonstrating compliance with the emissions standards in this subsection (d), the owner or operator of an EGU may elect to comply with the emissions testing requirements in Section 225.239(a)(4), (b), (c), (d), (e), (f), (g), (h), (i), and (j) of this Subpart.
- e) Emission Standards for NO<sub>x</sub> and SO<sub>2</sub>:
- 1) NO<sub>x</sub> Emission Standards:
    - A) Beginning in calendar year 2012 and continuing through calendar year 2017 ~~in each calendar thereafter~~, for the EGUs in each MPS Group, the owner and operator of the EGUs must comply with an overall NO<sub>x</sub> ~~NO<sub>x</sub>~~ annual emission rate of no more than 0.11 lb/million Btu or an emission rate equivalent to 52 percent of the Base Annual Rate of NO<sub>x</sub> emissions, whichever is more stringent.
    - B) Beginning in the 2012 ozone season and continuing through the 2017 ~~in each ozone season thereafter~~, for the EGUs in each MPS Group, the owner and operator of the EGUs must comply with an overall NO<sub>x</sub> seasonal emission rate of no more than 0.11 lb/million

514 Btu or an emission rate equivalent to 80 percent of the Base  
515 Seasonal Rate of NO<sub>x</sub> emissions, whichever is more stringent.  
516

517 C) Except as otherwise provided in subsection (f), beginning in  
518 calendar year 2018 and continuing in each calendar year thereafter,  
519 the owner and operator of the EGUs in an MPS Group must not  
520 cause or allow to be discharged into the atmosphere combined  
521 annual NO<sub>x</sub> emissions in excess of 25,000 tons from all EGUs.  
522

523 D) Except as otherwise provided in subsection (f), beginning in the  
524 year 2018 and continuing in each year thereafter, from May 1 to  
525 September 30 the owner and operator of the EGUs in an MPS  
526 Group must not cause or allow to be discharged into the  
527 atmosphere combined NO<sub>x</sub> emissions in excess of 11,500 tons  
528 from all EGUs.  
529

530 E) On and after January 1, 2018, the owner and operator of any of  
531 Baldwin Units 1 and 2, Coffeen Units 1 and 2, Duck Creek Unit 1,  
532 E.D. Edwards Unit 3, and Havana Unit 9 must comply with the  
533 following:  
534

535 i) Operate each existing selective catalytic reduction (SCR)  
536 control system on each EGU in accordance with good  
537 operating practices and at all times when the unit it serves is  
538 in operation, provided that such operation of the SCR control  
539 system is consistent with the technological limitations,  
540 manufacturers' specifications, and good engineering and  
541 maintenance practices for the SCR control system. During  
542 any such period in which the SCR is not operational, the  
543 owner and operator must minimize emissions to the extent  
544 reasonably practicable. All NO<sub>x</sub> emissions from each EGU,  
545 regardless of whether the SCR is operational or non-  
546 operational, must be included in determining compliance  
547 with the emission standards set forth under subsections  
548 (e)(1)(C), (e)(1)(D), and (f)(1), as applicable.  
549

550 ii) From May 1 to September 30, comply with a combined  
551 NO<sub>x</sub> average emission rate of no more than 0.10 lb/mmBtu.  
552 Averaging is only allowed among EGUs in the same MPS  
553 Group.  
554

555 2) SO<sub>2</sub> Emission Standards-  
556

- 557 A) Beginning in calendar year 2013 and continuing in calendar year  
 558 2014, for the EGUs in each MPS Group, the owner and operator of  
 559 the EGUs must comply with an overall SO<sub>2</sub> annual emission rate  
 560 of 0.33 lb/million Btu or a rate equivalent to 44 percent of the Base  
 561 Rate of SO<sub>2</sub> emissions, whichever is more stringent.  
 562
- 563 B) Beginning in calendar year 2015 and continuing through calendar  
 564 year 2017 in each calendar year thereafter, for the EGUs in each  
 565 MPS Grouping, the owner and operator of the EGUs must comply  
 566 with an overall annual emission rate for SO<sub>2</sub> of 0.25 lbs/million  
 567 Btu or a rate equivalent to 35 percent of the Base Rate of SO<sub>2</sub>  
 568 emissions, whichever is more stringent.  
 569
- 570 C) Except as otherwise provided in subsection (f), beginning in  
 571 calendar year 2018 and continuing in each calendar year thereafter,  
 572 the owner and operator of the EGUs in an MPS Group must not  
 573 cause or allow to be discharged into the atmosphere combined  
 574 annual SO<sub>2</sub> emissions in excess of 55,000 tons from all EGUs.  
 575
- 576 D) Beginning in calendar year 2018 and continuing in each calendar  
 577 year thereafter, the owner and operator of Joppa Units 1, 2, 3, 4, 5,  
 578 and 6 must not cause or allow to be discharged into the atmosphere  
 579 combined annual SO<sub>2</sub> emissions in excess of 19,860 tons from  
 580 such EGUs.  
 581
- 582 3) Ameren MPS Group Multi-Pollutant Standard  
 583
- 584 A) Notwithstanding the provisions of subsections (e)(1) and (2) of this  
 585 Section, this subsection (e)(3) applies to the Ameren MPS Group  
 586 as described in the notice of intent submitted by Ameren Energy  
 587 Resources in accordance with subsection (b) of this Section.  
 588
- 589 B) NO<sub>x</sub> Emission Standards  
 590
- 591 i) Beginning in the 2010 ozone season and continuing in each  
 592 ozone season thereafter, for the EGUs in the Ameren MPS  
 593 Group, the owner and operator of the EGUs must comply  
 594 with an overall NO<sub>x</sub> seasonal emission rate of no more than  
 595 0.11 lb/million Btu.  
 596
- 597 ii) Beginning in calendar year 2010 and continuing in calendar  
 598 year 2011, for the EGUs in the Ameren MPS Group, the  
 599 owner and operator of the EGUs must comply with an



600 overall NO<sub>x</sub> annual emission rate of no more than 0.14 lb/  
 601 million Btu.

602  
 603 iii) Beginning in calendar year 2012 and continuing in each  
 604 calendar year thereafter, for the EGUs in the Ameren MPS  
 605 Group, the owner and operator of the EGUs must comply  
 606 with an overall NO<sub>x</sub> annual emission rate of no more than  
 607 0.11 lb/million Btu.

608  
 609 e) SO<sub>2</sub> Emission Standards

610  
 611 i) Beginning in calendar year 2010 and continuing in each  
 612 calendar year through 2013, for the EGUs in the Ameren  
 613 MPS Group, the owner and operator of the EGUs must  
 614 comply with an overall SO<sub>2</sub> annual emission rate of 0.50  
 615 lb/million Btu.

616  
 617 ii) In calendar year 2014, for the EGUs in the Ameren MPS  
 618 Group, the owner and operator of the EGUs must comply  
 619 with an overall SO<sub>2</sub> annual emission rate of 0.43 lb/million  
 620 Btu.

621  
 622 iii) Beginning in calendar year 2015 and continuing in calendar  
 623 year 2016, for the EGUs in the Ameren MPS Group, the  
 624 owner and operator of the EGUs must comply with an  
 625 overall SO<sub>2</sub> annual emission rate of 0.25 lb/million Btu.

626  
 627 iv) Beginning in calendar year 2017 and continuing in each  
 628 calendar year thereafter, for the EGUs in the Ameren MPS  
 629 Group, the owner and operator of the EGUs must comply  
 630 with an overall SO<sub>2</sub> annual emission rate of 0.23 lb/million  
 631 Btu.

632  
 633 4) Compliance with the NO<sub>x</sub> and SO<sub>2</sub> emission standards must be  
 634 demonstrated in accordance with Sections 225.310, 225.410, and 225.510.  
 635 The owner or operator of EGUs must complete the demonstration of  
 636 compliance before March 1 of the following year for annual standards and  
 637 before November 1 for seasonal standards, by which date a compliance  
 638 report must be submitted to the Agency.

639  
 640 f) Transfer of EGUs in an MPS Group

641  
 642 1) If EGUs in an MPS Group are transferred to a different owner:

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- A) For the MPS Group from which EGUs are transferred: The combined emissions limitations for the MPS Group set forth in this Section, as applicable, must be adjusted by subtracting from those limitations the applicable allocation amounts set forth in Columns A, B, and C in subsection (f)(2) that are attributable to the transferred EGUs. The owner and operator of the MPS Group must comply with the adjusted emissions limitations.
  
- B) For a new MPS Group consisting of the acquired EGUs:
  - i) The owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined annual NO<sub>x</sub> emissions in excess of the applicable annual NO<sub>x</sub> limitation from all EGUs. The applicable annual NO<sub>x</sub> limitation shall be the sum of the allocation amounts attributable to all EGUs in the MPS Group set forth in Column A of subsection (f)(2).
  
  - ii) From May 1 to September 30, the owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined NO<sub>x</sub> emissions in excess of the applicable seasonal NO<sub>x</sub> limitation from all EGUs. The applicable seasonal NO<sub>x</sub> limitation shall be the sum of the allocation amounts attributable to all EGUs in the MPS Group set forth in Column B of subsection (f)(2).
  
  - iii) The owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined annual SO<sub>2</sub> emissions in excess of the applicable annual SO<sub>2</sub> limitation from all EGUs. The applicable annual SO<sub>2</sub> limitation shall be the sum of the unit allocation amounts attributable to all EGUs in the MPS Group set forth in Column C of subsection (f)(2).
  
  - iv) Notwithstanding subsections (f)(1)(B)(i) through (iii), if all the EGUs set forth under subsection (a)(4)(A) are transferred to the same owner on the same date, the owner and operator of the EGUs in the new MPS Group must comply with the emission limitations under subsection (e); the allocation amounts in subsection (f)(2) shall not apply.

685 C) The owner and operator of the EGUs as of the last day of the  
 686 applicable compliance period must demonstrate compliance with  
 687 the emission standards of this Section for the entire applicable  
 688 compliance period. In determining compliance, the owner and  
 689 operator must include in their calculations emissions from the  
 690 EGUs for the entire applicable compliance period; the prior owner  
 691 and operator shall not include in their calculations emissions from  
 692 the EGUs for the applicable compliance period.

693  
 694 D) Nothing in this subsection (f) shall be construed to relieve owners  
 695 and operators of EGUs in an MPS Group from any of the other  
 696 requirements set forth in this Section, including the mercury  
 697 standards under subsection (d).

698  
 699 2) Allocation Amounts in the Event of Transfer of EGUs  
 700

		<u>Column A.</u> <u>NO<sub>x</sub></u> <u>Allocation</u> <u>Amount</u> <u>(TPY) in the</u> <u>Event of</u> <u>Transfer</u>	<u>Column B.</u> <u>NO<sub>x</sub></u> <u>Allocation</u> <u>Amount (May</u> <u>1-Sept 30</u> <u>Tons) in the</u> <u>Event of</u> <u>Transfer</u>	<u>Column C.</u> <u>SO<sub>2</sub></u> <u>Allocation</u> <u>Amount</u> <u>(TPY) in the</u> <u>Event of</u> <u>Transfer</u>
A)	<u>Baldwin</u>	<u>6,000</u>	<u>2,700</u>	<u>6,000</u>
B)	<u>Havana</u>	<u>1,800</u>	<u>810</u>	<u>1,500</u>
C)	<u>Hennepin</u>	<u>1,500</u>	<u>675</u>	<u>6,000</u>
D)	<u>Coffeen</u>	<u>2,000</u>	<u>900</u>	<u>250</u>
E)	<u>Duck Creek</u>	<u>1,400</u>	<u>630</u>	<u>250</u>
F)	<u>Edwards</u>	<u>3,000</u>	<u>1,350</u>	<u>10,000</u>
G)	<u>Joppa</u>	<u>5,200</u>	<u>2,340</u>	<u>18,000</u>
H)	<u>Newton</u>	<u>2,700</u>	<u>1,215</u>	<u>10,000</u>

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 702 3) If EGUs in an MPS Group are transferred to a different owner:  
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A) The transferring owner must notify the Agency's Bureau of Air, Compliance Section, in writing within seven days after the date of transfer. The notification must include the following information:

- i) Name and address of the transferring owner and operator;
- ii) List of the EGUs transferred;
- iii) For the remaining EGUs in the MPS Group, calculations pursuant to subsection (f)(1)(A) demonstrating the adjusted combined annual NO<sub>x</sub> emissions limitation, the adjusted combined NO<sub>x</sub> emissions limitation from May 1 to September 30, and the adjusted combined annual SO<sub>2</sub> emissions limitation that are applicable to the MPS Group;
- iv) Name and address of the new owner and operator; and
- v) Date of transfer.

B) The acquiring owner must notify the Agency's Bureau of Air, Compliance Section, in writing within seven days after the date of transfer. The notification must include the following information:

- i) Name and address of the acquiring owner and operator;
- ii) Name and address of the transferring owner and operator;
- iii) List of the EGUs acquired;
- iv) Calculations pursuant to subsection (f)(1)(B) demonstrating the combined annual NO<sub>x</sub> emissions limitation, the combined NO<sub>x</sub> emissions limitation from May 1 to September 30, and the combined annual SO<sub>2</sub> emissions limitation that are applicable to the acquiring owner and operator's MPS Group; and
- v) Date of transfer.

g) Requirements for NO<sub>x</sub> and SO<sub>2</sub> Allowances.

- 1) The owner or operator of EGUs in an MPS Group must not sell or trade to any person or otherwise exchange with or give to any person NO<sub>x</sub> allowances allocated to the EGUs in the MPS Group for vintage years

- 747 2012 and beyond that would otherwise be available for sale, trade, or  
 748 exchange as a result of actions taken to comply with the standards in  
 749 subsection (e) ~~of this Section~~. Such allowances that are not retired for  
 750 compliance must be surrendered to the Agency on an annual basis,  
 751 beginning in calendar year 2013. This provision does not apply to the use,  
 752 sale, exchange, gift, or trade of allowances among the EGUs in an MPS  
 753 Group.  
 754
- 755 2) The owners or operators of EGUs in an MPS Group must not sell or trade  
 756 to any person or otherwise exchange with or give to any person SO<sub>2</sub>  
 757 allowances allocated to the EGUs in the MPS Group for vintage years  
 758 2013 and beyond that would otherwise be available for sale or trade as a  
 759 result of actions taken to comply with the standards in subsection (e) ~~of~~  
 760 ~~this Section~~. Such allowances that are not retired for compliance, or  
 761 otherwise surrendered pursuant to a consent decree to which the State of  
 762 Illinois is a party, must be surrendered to the Agency on an annual basis,  
 763 beginning in calendar year 2014. This provision does not apply to the use,  
 764 sale, exchange, gift, or trade of allowances among the EGUs in an MPS  
 765 Group.  
 766
- 767 3) The provisions of this subsection (g~~f~~) do not restrict or inhibit the sale or  
 768 trading of allowances that become available from one or more EGUs in a  
 769 MPS Group as a result of holding allowances that represent over-  
 770 compliance with the NO<sub>x</sub> or SO<sub>2</sub> standard in subsection (e) ~~of this Section~~,  
 771 once such a standard becomes effective, whether such over-compliance  
 772 results from control equipment, fuel changes, changes in the method of  
 773 operation, unit shut downs, or other reasons.  
 774
- 775 4) For purposes of this subsection (g~~f~~), NO<sub>x</sub> and SO<sub>2</sub> allowances mean  
 776 allowances necessary for compliance with Sections 225.310, 225.410, or  
 777 225.510, 40 CFR 72, or Subparts AA and AAAA of 40 CFR 96, or any  
 778 future federal NO<sub>x</sub> or SO<sub>2</sub> emissions trading programs that modify or  
 779 replace these programs. This Section does not prohibit the owner or  
 780 operator of EGUs in an MPS Group from purchasing or otherwise  
 781 obtaining allowances from other sources as allowed by law for purposes of  
 782 complying with federal or state requirements, except as specifically set  
 783 forth in this Section.  
 784
- 785 5) By March 1, 2010, and continuing each year thereafter, the owner or  
 786 operator of EGUs in an MPS Group must submit a report to the Agency  
 787 that demonstrates compliance with the requirements of this subsection (g~~f~~)  
 788 for the previous calendar year, and which includes identification of any  
 789 allowances that have been surrendered to the USEPA or to the Agency and

790 any allowances that were sold, gifted, used, exchanged, or traded because  
 791 they became available due to over-compliance. All allowances that are  
 792 required to be surrendered must be surrendered by August 31, unless  
 793 USEPA has not yet deducted the allowances from the previous year. A  
 794 final report will be submitted to the Agency by August 31 of each year,  
 795 verifying that the actions described in the initial report have taken place  
 796 or, if such actions have not taken place, an explanation of all changes that  
 797 have occurred and the reasons for such changes. If USEPA has not  
 798 deducted the allowances from the previous year by August 31, the final  
 799 report will be due, and all allowances required to be surrendered must be  
 800 surrendered, within 30 days after such deduction occurs.

801  
 802 g) ~~Notwithstanding 35 Ill. Adm. Code 201.146(hhh), until an EGU has complied~~  
 803 ~~with the applicable emission standards of subsections (d) and (e) of this Section~~  
 804 ~~for 12 months, the owner or operator of the EGU must obtain a construction~~  
 805 ~~permit for any new or modified air pollution control equipment that it proposes to~~  
 806 ~~construct for control of emissions of mercury, NO<sub>x</sub>, or SO<sub>2</sub>.~~

807  
 808 h) Recordkeeping  
 809 On and after January 1, 2018, the owner and operator of the EGUs in an MPS  
 810 Group must keep and maintain all records necessary to demonstrate compliance  
 811 with this Section, including but not limited to those listed in subsections (h)(1)  
 812 and (h)(2). Copies of such records must be kept at the source and maintained for  
 813 at least five years from the date the document is created and must be submitted by  
 814 the owner and operator to the Agency within 30 days after receipt of a written  
 815 request by the Agency.

816  
 817 1) All emissions monitoring information gathered in accordance with 40  
 818 CFR 75.

819  
 820 2) Copies of all reports and compliance certifications required under  
 821 subsection (i) of this Section.

822  
 823 i) Reporting

824  
 825 1) Prior to January 1, 2018, compliance with the NO<sub>x</sub> and SO<sub>2</sub> emission  
 826 standards must be demonstrated in accordance with Sections 225.310,  
 827 225.410, and 225.510. The owner or operator of EGUs must complete the  
 828 demonstration of compliance before March 1 of the following year for  
 829 annual standards and before November 1 for seasonal standards, by which  
 830 date a compliance report must be submitted to the Agency.  
 831

- 832           2)   On and after January 1, 2018, the owner and operator of the EGUs in an  
833                   MPS Group must demonstrate compliance with the applicable  
834                   requirements set forth in this subsection (i)(2).  
835  
836           A)   Beginning in 2019, the owner and operator of EGUs in an MPS  
837                   Group must submit to the Agency's Bureau of Air, Compliance  
838                   Section, a report demonstrating compliance with the annual  
839                   emissions standards under subsections (e)(1)(C), (e)(2)(C),  
840                   (e)(2)(D), and (f)(1), as applicable, and with the requirements  
841                   under subsection (e)(1)(E)(i), as applicable, on or before March 1  
842                   of each year. The compliance report must include the following  
843                   for the preceding calendar year:  
844  
845                   i)   Actual emissions of each pollutant, expressed in tons, for  
846                       each individual EGU in the MPS Group.  
847  
848                   ii)   Combined actual emissions of each pollutant, expressed in  
849                       tons, for all EGUs in the MPS Group.  
850  
851                   iii)   Combined actual emissions of SO<sub>2</sub>, expressed in tons, for  
852                       all Joppa EGUs.  
853  
854                   iv)   A statement indicating whether each existing SCR control  
855                       system on Baldwin Units 1 and 2, Coffeen Units 1 and 2,  
856                       Duck Creek Unit 1, E.D. Edwards Unit 3, and Havana Unit  
857                       9 was operated in accordance with good operating practices  
858                       and at all times when the unit it serves was in operation,  
859                       consistent with the technological limitations,  
860                       manufacturers' specifications, and good engineering and  
861                       maintenance practices for the SCR control system.  
862  
863                   v)   A statement indicating whether the EGUs in an MPS Group  
864                       were operated in compliance with the requirements of this  
865                       Section.  
866  
867                   vi)   A certification by a responsible official that states the  
868                       following:  
869  
870                       I certify under penalty of law that this document and all  
871                       attachments were prepared under my direction or supervision  
872                       in accordance with a system designed to assure that qualified  
873                       personnel properly gather and evaluate the information  
874                       submitted. Based on my inquiry of the person or persons  
875                       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.

B) By November 1 of each year, the owner and operator of EGUs in an MPS Group must submit to the Agency's Bureau of Air, Compliance Section, a report demonstrating compliance with the seasonal emissions standards under subsections (e)(1)(D), (e)(1)(E)(ii), and (f)(1), as applicable. The compliance report must include the following for the preceding May 1 through September 30:

- i) Actual emissions of NO<sub>x</sub>, expressed in tons, for each individual EGU in the MPS Group.
- ii) Combined actual emissions of NO<sub>x</sub>, expressed in tons, of all EGUs in the MPS Group.
- iii) NO<sub>x</sub> average emission rate (lbs/mmBtu) for each of Baldwin Units 1 and 2; Coffeen Units 1 and 2; Duck Creek Unit 1; E.D. Edwards Unit 3; and Havana Unit 9, as applicable.
- iv) Combined NO<sub>x</sub> average emission rate (lbs/mmBtu) for Baldwin Units 1 and 2; Coffeen Units 1 and 2; Duck Creek Unit 1; E.D. Edwards Unit 3; and Havana Unit 9, as applicable under subsection (e)(1)(E)(ii).
- v) A statement indicating whether the EGUs in an MPS Group were operated in compliance with the requirements of this Section.
- vi) A certification by a responsible official that states the following:

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



920 knowledge and belief, true, accurate, and complete. I am  
921 aware that there are significant penalties for submitting  
922 false information, including the possibility of fine and  
923 imprisonment for knowing violations.  
924

925 3) For each EGU in an MPS Group, the owner or operator must notify the  
926 Agency of deviations from any of the requirements of this Section within  
927 30 days after discovery of the deviations. At a minimum, these  
928 notifications must include a description of the deviations, a discussion of  
929 the possible cause of the deviations, and a description of any corrective  
930 actions and preventative measures taken.

931  
932 4) Within 30 days after the beginning of a period during which the SCR  
933 control system on any of Baldwin Unit 1, Baldwin Unit 2, Coffeen Unit 1,  
934 Coffeen Unit 2, Duck Creek Unit 1, E.D. Edwards Unit 3, or Havana Unit  
935 9 is not operated when the EGU it serves is in operation, the owner and  
936 operator must notify the Agency's Bureau of Air, Compliance Section, in  
937 writing. This notification must include, at a minimum, a description of  
938 why the SCR control system was not operated, the time frames during  
939 which the SCR control system was not operated, and the steps taken to  
940 minimize emissions during those time frames.

941  
942 (Source: Amended at 42 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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225.140 Incorporations by Reference  
225.150 Commence Commercial Operation

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FROM COAL-FIRED ELECTRIC GENERATING UNITS

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225.205 Applicability  
225.210 Compliance Requirements  
225.220 Clean Air Act Permit Program (CAAPP) Permit Requirements  
225.230 Emission Standards for EGUs at Existing Sources  
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225.233 Multi-Pollutant Standards (MPS)  
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Sources  
225.235 Units Scheduled for Permanent Shut Down  
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- 225.300 Purpose
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225.605 Applicability (Repealed)  
225.610 Notice of Intent (Repealed)  
225.615 Control Technology Requirements and Emissions Standards for  
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225.620 Emissions Standards for NOx and SO2 (Repealed)  
225.625 Control Technology Requirements for NOx, SO2, and PM  
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225.630 Permanent Shut- Downs (Repealed)  
225.635 Requirements for CAIR SO2, CAIR NOx, and CAIR NOx Ozone  
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225.APPENDIX A Specified EGUs for Purposes of the CPS ~~Midwest-  
Generation's~~ (Coal-Fired Boilers as of July 1, 2006)

225.APPENDIX B Continuous Emission Monitoring Systems for Mercury

225.EXHIBIT A Specifications and Test Procedures

225. EXHIBIT B Quality Assurance and Quality Control Procedures

225. EXHIBIT C Conversion Procedures

~~225-225~~.EXHIBIT D Quality Assurance and Operating Procedures for  
Sorbent Trap Monitoring Systems

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

SOURCE: Adopted in R06-25 at 31 Ill. Reg. 129, effective December 21,  
2006; amended in R06-26 at 31 Ill. Reg. 12864, effective August 31,  
2007; amended in R09-10 at 33 Ill. Reg. 10427, effective June 26, 2009;  
amended in R15-21 at 39 Ill. Reg. 16225, effective December 7, 2015;  
amended in R18-20 at 42 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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

Section 225.233 Multi-Pollutant Standards (MPS)

a) General-

1) As an alternative to compliance with the emissions standards of Section 225.230(a), the owner of eligible EGUs may elect for those EGUs to demonstrate compliance pursuant to this Section, which establishes control requirements and standards for emissions of NOx and SO2, as well as for emissions of mercury.

2) For the purpose of this Section, the following requirements apply:

A) An eligible EGU is an EGU that is located in Illinois and which commenced commercial operation on or before December 31, 2004; and

B) Ownership of an eligible EGU is determined based on direct ownership, by the holding of 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 has the right or authority to submit a CAAPP application on behalf of the EGU.

3) The owner of one or more EGUs electing to demonstrate compliance with this Subpart B pursuant to this Section must submit an application for a CAAPP permit modification to the Agency, as provided in Section 225.220, that includes the information specified in subsection (b) ~~of this Section~~ and which clearly states the owner's election to demonstrate compliance pursuant to this Section 225.233.

A) If the owner of one or more EGUs elects to demonstrate compliance with this Subpart pursuant to this Section, then all EGUs it owns in Illinois as of July 1, 2006, as defined in subsection (a)(2)(B) ~~of this Section~~, must be thereafter subject to the standards and control requirements of this Section, except as provided in subsection (a)(3)(B). Such EGUs must be referred to as a Multi-Pollutant Standard (MPS) Group.

B) Notwithstanding the foregoing, the owner may exclude from an MPS Group any EGU scheduled for permanent shutdown that the owner so designates in its CAAPP application required to be submitted pursuant to subsection (a)(3) ~~of this Section~~, with compliance for such units to be achieved by means of Section 225.235.

4) Notwithstanding any contrary provision in this subsection (a), on and after January 1, 2018:

A) The following EGUs shall be merged into a new MPS Group: Baldwin Units 1, 2, and 3; Coffeen Units 1 and 2; Duck Creek Unit 1; E.D. Edwards Units 2 and 3; Havana Unit 9; Hennepin Units 1 and 2; Joppa Units 1, 2, 3, 4, 5, and 6; and Newton Unit 1. If one or more of the above EGUs are transferred to a different owner, such EGU or EGUs will become a separate MPS Group on and after the date of transfer. For

purposes of this Section, "transfer" means sale, conveyance, transfer, or other change in ownership of an EGU; and

B) No other EGUs except for those listed in subsection (a)(4)(A) of this Section are subject to the requirements of this Section.

~~545~~) When an EGU is subject to the requirements of this Section, the requirements apply to all owners or operators of the EGU.

b) Notice of Intent-

The owner of one or more EGUs that intends to comply with this Subpart B by means of this Section must notify the Agency of its intention by December 31, 2007. The following information must accompany the notification:

1) The identification of each EGU that will be complying with this Subpart B by means of the multi-pollutant standards contained in this Section, with evidence that the owner has identified all EGUs that it owned in Illinois as of July 1, 2006 and which commenced commercial operation on or before December 31, 2004;

2) If an EGU identified in subsection (b)(1) ~~of this Section~~ is also owned or operated by a person different than the owner 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 accepting the application;

3) The Base Emission Rates for the EGUs, with copies of supporting data and calculations;

4) 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 the each EGU to comply with emission control requirements of this Section, including identification of each EGU in the MPS group that will be addressed by subsection (c)(1)(B) ~~of this Section~~, with information showing that the eligibility criteria for this subsection (b) are satisfied; and

5) Identification of each EGU that is scheduled for permanent shut down, as provided by Section 225.235, which will not be part of the MPS Group and which will not be demonstrating compliance with this Subpart B pursuant to this Section.

c) Control Technology Requirements for Emissions of Mercury-

1) Requirements for EGUs in an MPS Group-

A) For each EGU in an MPS Group other than an EGU that is addressed by subsection (c)(1)(B) ~~of this Section~~ for the period beginning July 1, 2009 (or December 31, 2009 for an EGU for which an SO2 scrubber or fabric filter is being installed to be in operation by December 31, 2009), and ending on December 31, 2014 (or such earlier date that the

EGU is subject to the mercury emission standard in subsection (d)(1) ~~of this Section~~, the owner or operator of the EGU must install, to the extent not already installed, and properly operate and maintain one of the following emission control devices:

i) A Halogenated Activated Carbon Injection System, complying with the sorbent injection requirements of subsection (c)(2) ~~of this Section~~, except as may be otherwise provided by subsection (c)(4) ~~of this Section~~, and followed by a Cold-Side Electrostatic Precipitator or Fabric Filter; or

ii) If the boiler fires bituminous coal, a Selective Catalytic Reduction (SCR) System and an SO<sub>2</sub> Scrubber.

B) An owner of an EGU in an MPS Group has two options under this subsection (c). For an MPS Group that contains EGUs smaller than 90 gross MW in capacity, the owner may designate any such EGUs to be not subject to subsection (c)(1)(A) ~~of this Section~~. Or, for an MPS Group that contains EGUs with gross MW capacity of less than 115 MW, the owner may designate any such EGUs to be not subject to subsection (c)(1)(A) ~~of this Section~~, provided that the aggregate gross MW capacity of the designated EGUs does not exceed 4% of the total gross MW capacity of the MPS Group. For any EGU subject to one of these two options, unless the EGU is subject to the emission standards in subsection (d)(2) ~~of this Section~~, beginning on January 1, 2013, and continuing until such date that the owner or operator of the EGU commits to comply with the mercury emission standard in subsection (d)(2) ~~of this Section~~, the owner or operator of the EGU must install and properly operate and maintain a Halogenated Activated Carbon Injection System that complies with the sorbent injection requirements of subsection (c)(2) ~~of this Section~~, except as may be otherwise provided by subsection (c)(4) ~~of this Section~~, and followed by either a Cold-Side Electrostatic Precipitator or Fabric Filter. The use of a properly installed, operated, and maintained Halogenated Activated Carbon Injection System that meets the sorbent injection requirements of subsection (c)(2) ~~of this Section~~ is defined as the "principal control technique."

2) For each EGU for which injection of halogenated activated carbon is required by subsection (c)(1) ~~of this Section~~, the owner or operator of the EGU must inject halogenated activated carbon in an optimum manner, which, except as provided in subsection (c)(4) ~~of this Section~~, is defined as all of the following:

A) The use of an injection system designed for effective absorption of mercury, considering the configuration of the EGU and its ductwork;

B) The injection of halogenated activated carbon manufactured by Alstom, Norit, or Sorbent Technologies, Calgon Carbon's FLUEPAC CF Plus, or Calgon Carbon's FLUEPAC MC Plus, or the injection of any other halogenated activated carbon or sorbent that the owner or operator of

the EGU has demonstrated to have similar or better effectiveness for control of mercury emissions; and

C) The injection of sorbent at the following minimum rates, as applicable:

i) For an EGU firing subbituminous coal, 5.0 lbs per million actual cubic feet or, for any cyclone-fired EGU that will install a scrubber and baghouse by December 31, 2012, and which already meets an emission rate of 0.020 lbs 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 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 above rates, 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 subsections (c) (2) (C) (i), (c) (2) (C) (ii), or (c) (2) (C) (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.

D) For the purposes of subsection (c) (2) (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 ( $V_{sp} = V_{stack} \times T_{sp}/T_{stack}$ , where V = gas flow rate in acf and T = gas temperature in Kelvin or Rankine

3) 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 (c) (2) (C) (iv) ~~of this Section~~ must submit an application to the Agency proposing such rate or rates, and must meet the requirements of subsections (c) (3) (A) and (c) (3) (B) ~~of this Section~~, subject to the limitations of subsections (c) (3) (C) and (c) (3) (D) ~~of this Section~~:



A) The application must be submitted as an application for a new or revised federally enforceable operating permit for the EGU, and it must include a summary of relevant mercury emission data for the EGU, the unit-specific injection rate or rates that are proposed, and detailed information to support the proposed injection rate or rates; and

B) 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 (c) (1) (A) ~~of this subsection~~ must apply for unit-specific injection rate or rates by July 1, 2009. Thereafter, the owner or operator of the EGU may supplement its application; and

C) 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

D) 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.

4) During any evaluation of the effectiveness of a listed sorbent, an alternative sorbent, or other technique to control mercury emissions, the owner or operator of an EGU need not comply with the requirements of subsection (c) (2) ~~of this Section~~ for any system needed to carry out the evaluation, as further provided as follows:

A) 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;

B) 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 technique, as initially addressed by the owner or operator in a support document submitted with the evaluation program;

C) 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

D) If the evaluation of the alternative control technique shows less effective control of mercury emissions from the EGU than was achieved with the principal control technique, the owner or operator of the EGU must resume use of the principal control technique. If the evaluation of the alternative control technique shows comparable effectiveness to the principal control technique, the owner or operator of the EGU may either continue to use the alternative control technique in a manner that is at least as effective as the principal control technique, or it may resume use of the principal control technique. If the evaluation of the alternative control technique shows more effective control of

mercury emissions than the control technique, the owner or operator of the EGU must continue to use the alternative control technique in a manner that is more effective than the principal control technique, so long as it continues to be subject to this subsection (c).

5) 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 this Section must also comply with the following additional requirements:

A) 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, on a weekly average;

B) After the first 36 months that injection of sorbent is required, it must monitor activated sorbent feed rate to the EGU, gas flow rate in the stack, and, if the unit is equipped with activated carbon injection prior to a hot-side electrostatic precipitator, flue gas temperature at the inlet of the hot-side electrostatic precipitator and in the stack. It must automatically record this data and the sorbent carbon feed rate, in pounds per million actual cubic feet of flue gas, on an hourly average; and

C) 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.

6) Until June 30, 2012, as an alternative to the CEMS or excepted monitoring system (sorbent trap 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).

7) 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 this Subpart B by means of this Section must also submit quarterly reports for the recordkeeping and monitoring conducted pursuant to subsection (c)(5) of this Section.

d) Emission Standards for Mercury-

1) For each EGU in an MPS Group that is not addressed by subsection (c)(1)(B) ~~of this Section~~, beginning January 1, 2015 (or such earlier date when the owner or operator of the EGU notifies the Agency that it

will comply with these standards) and continuing thereafter, the owner or operator of the EGU must comply with one of the following standards on a rolling 12-month basis:

A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or

B) A minimum 90-percent reduction of input mercury.

2) For each EGU in an MPS Group that has been addressed under subsection (c) (1) (B) ~~of this Section~~, beginning on the date when the owner or operator of the EGU notifies the Agency that it will comply with these standards and continuing thereafter, the owner or operator of the EGU must comply with one of the following standards on a rolling 12-month basis:

A) An emission standard of 0.0080 lb mercury/GWh gross electrical output; or

B) A minimum 90-percent reduction of input mercury.

3) Compliance with the mercury emission standard or reduction requirement of this subsection (d) must be calculated in accordance with Section 225.230(a) or (d), or Section 225.232 until December 31, 2013.

4) Until June 30, 2012, as an alternative to demonstrating compliance with the emissions standards in this subsection (d), the owner or operator of an EGU may elect to comply with the emissions testing requirements in Section 225.239(a) (4), (b), (c), (d), (e), (f), (g), (h), (i), and (j) of this Subpart.

e) Emission Standards for NOx and SO~~2~~<sub>2</sub> Standards- 1) NOx Emission

A) Beginning in calendar year 2012 and continuing through calendar year ~~2017 in each calendar thereafter, 2017.~~ for the EGUs in each MPS Group, the owner and operator of the EGUs must comply with an overall ~~NOx~~ NOx annual emission rate of no more than 0.11 lb/million Btu or an emission rate equivalent to 52 percent of the Base Annual Rate of NOx emissions, whichever is more stringent.

B) Beginning in the 2012 ozone season and continuing through the 2017 ~~and continuing in each~~ ozone season ~~thereafter~~, for the EGUs in each MPS Group, the owner and operator of the EGUs must comply with an overall NOx seasonal emission rate of no more than 0.11 lb/million Btu or an emission rate equivalent to 80 percent of the Base Seasonal Rate of NOx emissions, whichever is more stringent.

C) Except as otherwise provided in subsection (f) ~~of this Section~~, beginning in calendar year 2018 and continuing in each calendar year thereafter, the owner and operator of the EGUs in an MPS Group must not

cause or allow to be discharged into the atmosphere combined annual NOx emissions in excess of 25,000 tons from all EGUs.

D) Except as otherwise provided in subsection (f) ~~of this Section~~, beginning in the year 2018 and continuing in each year thereafter, from May 1 to September ~~30~~, 30 the owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined NOx emissions in excess of 11,500 tons from all EGUs.

E) On and after January 1, 2018, the owner and operator of any of Baldwin Units 1 and 2, Coffeen Units 1 and 2, Duck Creek Unit 1, E.D. Edwards Unit 3, and Havana Unit 9 must comply with the following:

i) Operate each existing ~~SCR~~ selective catalytic reduction (SCR) control system on each EGU in accordance with good operating practices and at all times when the unit it serves is in operation, provided that such operation of the SCR control system is consistent with the technological limitations, manufacturers' specifications, and good engineering and maintenance practices for the SCR control system. During any such period in which the SCR is not operational, the owner and operator must minimize emissions to the extent reasonably practicable. All NOx emissions from each EGU, regardless of whether the SCR is operational or non-operational, must be included in determining compliance with the emission standards set forth under subsections (e) (1) (C), (e) (1) (D), and (f) (1) ~~of this Section~~, as applicable.

ii) From May 1 to September 30, comply with a combined NOx average emission rate of no more than 0.10 lb/mmBtu. Averaging is only allowed among EGUs in the same MPS Group.

2) SO2 Emission Standards-

A) Beginning in calendar year 2013 and continuing in calendar year 2014, for the EGUs in each MPS Group, the owner and operator of the EGUs must comply with an overall SO2 annual emission rate of 0.33 lb/million Btu or a rate equivalent to 44 percent of the Base Rate of SO2 emissions, whichever is more stringent.

B) Beginning in calendar year 2015 and continuing through calendar year ~~2017 in each calendar year thereafter~~, 2017, for the EGUs in each MPS Grouping, the owner and operator of the EGUs must comply with an overall annual emission rate for SO2 of 0.25 lbs/million Btu or a rate equivalent to 35 percent of the Base Rate of SO2 emissions, whichever is more stringent.

C) Except as otherwise provided in subsection (f) ~~of this Section~~, beginning in calendar year 2018 and continuing in each calendar year thereafter, the owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined annual SO2 emissions in excess of 55,000 tons from all EGUs.

D) Beginning in calendar year 2018 and continuing in each calendar year thereafter, the owner and operator of Joppa Units 1, 2, 3, 4, 5, and 6 must not cause or allow to be discharged into the atmosphere combined annual SO<sub>2</sub> emissions in excess of 19,860 tons from such EGUs.

~~3) Ameren MPS Group Multi Pollutant Standard~~

~~A) Notwithstanding the provisions of subsections (c) (1) and (2) of this Section, this subsection (c) (3) applies to the Ameren MPS Group as described in the notice of intent submitted by Ameren Energy Resources in accordance with subsection (b) of this Section.~~

~~B) NO<sub>x</sub> Emission Standards.~~

~~i) Beginning in the 2010 ozone season and continuing in each ozone season thereafter, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall NO<sub>x</sub> seasonal emission rate of no more than 0.11 lb/million Btu.~~

~~ii) Beginning in calendar year 2010 and continuing in calendar year 2011, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall NO<sub>x</sub> annual emission rate of no more than 0.14 lb/million Btu.~~

~~iii) Beginning in calendar year 2012 and continuing in each calendar year thereafter, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall NO<sub>x</sub> annual emission rate of no more than 0.11 lb/million Btu.~~

~~C) SO<sub>2</sub> Emission Standards~~

~~i) Beginning in calendar year 2010 and continuing in each calendar year through 2013, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall SO<sub>2</sub> annual emission rate of 0.50 lb/million Btu.~~

~~ii) In calendar year 2014, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall SO<sub>2</sub> annual emission rate of 0.43 lb/million Btu.~~

~~iii) Beginning in calendar year 2015 and continuing in calendar year 2016, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall SO<sub>2</sub> annual emission rate of 0.25 lb/million Btu.~~

~~iv) Beginning in calendar year 2017 and continuing in each calendar year thereafter, for the EGUs in the Ameren MPS Group, the owner and operator of the EGUs must comply with an overall SO<sub>2</sub> annual emission rate of 0.23 lb /million Btu.~~

~~4) Compliance with the NO<sub>x</sub> and SO<sub>2</sub> emission standards must be demonstrated in accordance with Sections 225.310, 225.410, and 225.510.~~

~~The owner or operator of EGUs must complete the demonstration of compliance before March 1 of the following year for annual standards and before November 1 for seasonal standards, by which date a compliance report must be submitted to the Agency.~~

f) Transfer of EGUs in an MPS Group-

1) If EGUs in an MPS Group are transferred to a different owner:

A) For the MPS Group from which EGUs are transferred: The combined emissions limitations for the MPS Group set forth in this Section, as applicable, must be adjusted by subtracting from those limitations the applicable allocation amounts set forth in Columns A, B, and C in subsection (f) (2) ~~of this Section~~ that are attributable to the transferred EGUs. The owner and operator of the MPS Group must comply with the adjusted emissions limitations.

B) For a new MPS Group consisting of the acquired EGUs:

i) The owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined annual NOx emissions in excess of the applicable annual NOx limitation from all EGUs. The applicable annual NOx limitation shall be the sum of the allocation amounts attributable to all EGUs in the MPS Group set forth in Column A of subsection (f) (2) ~~of this Section~~.

ii) From May 1 to September 30, the owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined NOx emissions in excess of the applicable seasonal NOx limitation from all EGUs. The applicable seasonal NOx limitation shall be the sum of the allocation amounts attributable to all EGUs in the MPS Group set forth in Column B of subsection (f) (2) ~~of this Section~~.

iii) The owner and operator of the EGUs in an MPS Group must not cause or allow to be discharged into the atmosphere combined annual SO2 emissions in excess of the applicable annual SO2 limitation from all EGUs. The applicable annual SO2 limitation shall be the sum of the unit allocation amounts attributable to all EGUs in the MPS Group set forth in Column C of subsection (f) (2) ~~of this Section~~. iv) Notwithstanding subsections (f) (1) (B) (i) through (iii) ~~above~~, if all the EGUs set forth under subsection (a) (4) (A) ~~of this Section~~ are transferred to the same owner on the same date, the owner and operator of the EGUs in the new MPS Group must comply with the emission limitations under subsection (e) ~~of this Section~~; the allocation amounts in subsection (f) (2) ~~of this Section~~ shall not apply.

C) The owner and operator of the EGUs as of the last day of the applicable compliance period must demonstrate compliance with the emission standards of this Section for the entire applicable compliance period. In determining compliance, ~~such~~the owner and operator must include in their calculations emissions from the EGUs for the entire applicable compliance period; the prior owner and operator shall not

include in their calculations emissions from the EGUs for ~~such~~the applicable compliance period.

D) Nothing in this subsection (f) shall be construed to relieve owners and operators of EGUs in an MPS Group from any of the other requirements set forth in this Section, including the mercury standards under subsection (d) ~~of this Section~~.

2) Allocation Amounts in the Event of Transfer of EGUs

~~Column A. NOx Allocation Amount~~ ~~Column B. Column C. NOxNOxSO2 Allocation Allocation Allocation Amount Amount (May Amount (TPY) in the Event of Transfer~~

~~Column B. NOx Allocation Amount (May 1 - Sept 30 - Tons) in the Event of Transfer~~  
~~Column C. SO2 Allocation Amount (TPY) in the Event of Transfer~~

<del>1,800</del>	A) Baldwin	6,000	-2,700	<del>6,000</del>
<del>810</del>	B) (TPY) in the Event of Transfer			
<del>1,800</del>	C) 1,800	1,500		<del>675</del>
<del>6,000</del>	D) 1,500	6,000	2,000	<del>900</del>
<del>630</del>	E) 2,000	900	250	<del>1,400</del>
	F) Edwards	3,000	-1,350	<del>10,000</del>
	G) Joppa	5,200	-2,340	<del>18,000</del>
<del>10,000</del>	H) 1,400	6,300	2,500	<del>10,000</del>
<del>2,700</del>	I) 2,700	1,215		

3) If EGUs in an MPS Group are transferred to a different owner:

A) The transferring owner must notify the Agency's Bureau of Air, Compliance Section, in writing within seven days ~~of~~after the date of transfer. The notification must include the following information:

i) Name and address of the transferring owner and operator;

ii) List of the EGUs transferred;

iii) For the remaining EGUs in the MPS Group, calculations pursuant to subsection (f) (1) (A) ~~of this Section~~ demonstrating the adjusted combined annual NOx emissions limitation, the adjusted combined NOx emissions limitation from May 1 to September 30, and the adjusted combined annual SO2 emissions limitation that are applicable to the MPS Group;

iv) Name and address of the new owner and operator; and

v) Date of transfer.

B) The acquiring owner must notify the Agency's Bureau of Air, Compliance Section, in writing within seven days ~~of~~after the date of transfer. The notification must include the following information:

i) Name and address of the acquiring owner and operator;

ii) Name and address of the transferring owner and operator;

iii) List of the EGUs acquired;

iv) Calculations pursuant to subsection (f) (1) (B) ~~of this Section~~ demonstrating the combined annual NOx emissions limitation, the combined NOx emissions limitation from May 1 to September 30, and the combined annual SO2 emissions limitation that are applicable to the acquiring owner and operator's MPS Group; and

v) Date of transfer.

~~gf~~g) Requirements for NOx and SO2 Allowances.

1) The owner or operator of EGUs in an MPS Group must not sell or trade to any person or otherwise exchange with or give to any person NOx allowances allocated to the EGUs in the MPS Group for vintage years 2012 and beyond that would otherwise be available for sale, trade, or exchange as a result of actions taken to comply with the standards in subsection (e) ~~of this Section~~. Such allowances that are not retired for compliance must be surrendered to the Agency on an annual basis, beginning in calendar year 2013. This provision does not apply to the use, sale, exchange, gift, or trade of allowances among the EGUs in an MPS Group.

2) The owners or operators of EGUs in an MPS Group must not sell or trade to any person or otherwise exchange with or give to any person SO2 allowances allocated to the EGUs in the MPS Group for vintage years 2013 and beyond that would otherwise be available for sale or trade as a result of actions taken to comply with the standards in subsection (e) ~~of this Section~~. Such allowances that are not retired for compliance, or otherwise surrendered pursuant to a consent decree to which the State of Illinois is a party, must be surrendered to the Agency on an annual basis, beginning in calendar year 2014. This provision does not apply



to the use, sale, exchange, gift, or trade of allowances among the EGUs in an MPS Group.

3) The provisions of this subsection (~~gfg~~) do not restrict or inhibit the sale or trading of allowances that become available from one or more EGUs in a MPS Group as a result of holding allowances that represent over-compliance with the NOx or SO2 standard in subsection (e) ~~of this Section~~, once such a standard becomes effective, whether such over-compliance results from control equipment, fuel changes, changes in the method of operation, unit shut downs, or other reasons.

4) For purposes of this subsection (~~gfg~~), NOx and SO2 allowances mean allowances necessary for compliance with Sections 225.310, 225.410, or 225.510, 40 CFR 72, or Subparts AA and AAAA of 40 CFR 96, or any future federal NOx or SO2 emissions trading programs that modify or replace these programs. This Section does not prohibit the owner or operator of EGUs in an MPS Group from purchasing or otherwise obtaining allowances from other sources as allowed by law for purposes of complying with federal or state requirements, except as specifically set forth in this Section.

5) By March 1, 2010, and continuing each year thereafter, the owner or operator of EGUs in an MPS Group must submit a report to the Agency that demonstrates compliance with the requirements of this subsection (~~gfg~~) for the previous calendar year, and which includes identification of any allowances that have been surrendered to the USEPA or to the Agency and any allowances that were sold, gifted, used, exchanged, or traded because they became available due to over-compliance. All allowances that are required to be surrendered must be surrendered by August 31, unless USEPA has not yet deducted the allowances from the previous year. A final report ~~must~~will be submitted to the Agency by August 31 of each year, verifying that the actions described in the initial report have taken place or, if such actions have not taken place, an explanation of all changes that have occurred and the reasons for such changes. If USEPA has not deducted the allowances from the previous year by August 31, the final report will be due, and all allowances required to be surrendered must be surrendered, within 30 days after such deduction occurs.

~~g) Notwithstanding 35 Ill. Adm. Code 201.146(hhh), until an EGU has complied with the applicable emission standards of subsections (d) and (e) of this Section for 12 months, 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, NOx, or SO2.~~

h) Recordkeeping-

On and after January 1, 2018, the owner and operator of the EGUs in an MPS Group must keep and maintain all records necessary to demonstrate compliance with this Section, including but not limited to those listed in subsections (h)(1) and (h)(2). Copies of such records must be kept at the source and maintained for at least five years from the date the document is created and must be submitted by the owner and

operator to the Agency within 30 days after receipt of a written request by the Agency.

1) All emissions monitoring information gathered in accordance with 40 CFR 75.

2) Copies of all reports and compliance certifications required under subsection (i) of this Section.

i) Reporting-

1) Prior to January 1, 2018, compliance with the NOx and SO2 emission standards must be demonstrated in accordance with Sections 225.310, 225.410, and 225.510. The owner or operator of EGUs must complete the demonstration of compliance before March 1 of the following year for annual standards and before November 1 for seasonal standards, by which date a compliance report must be submitted to the Agency.

2) On and after January 1, 2018, the owner and operator of the EGUs in an MPS Group must demonstrate compliance with the applicable requirements set forth in this ~~Section as set forth below~~ subsection (i)(2).

A) Beginning in 2019, the owner and operator of EGUs in an MPS Group must submit to the Agency's Bureau of Air, Compliance Section, a report demonstrating compliance with the annual emissions standards under subsections (e)(1)(C), (e)(2)(C), (e)(2)(D), and (f)(1) ~~of this Section~~, as applicable, and with the requirements under subsection (e)(1)(E)(i) ~~of this Section~~, as applicable, on or before March 1 of each year. ~~Such~~The compliance report must include the following for the preceding calendar year:

i) Actual emissions of each pollutant, expressed in tons, for each individual EGU in the MPS Group.

ii) Combined actual emissions of each pollutant, expressed in tons, for all EGUs in the MPS Group.

iii) Combined actual emissions of SO2, expressed in tons, for all Joppa EGUs.

iv) A statement indicating whether each existing SCR control system on Baldwin Units 1 and 2, Coffeen Units 1 and 2, Duck Creek Unit 1, E.D. Edwards Unit 3, and Havana Unit 9 was operated in accordance with good operating practices and at all times when the unit it serves was in operation, consistent with the technological limitations, manufacturers' specifications, and good engineering and maintenance practices for the SCR control system.

v) A statement indicating whether the EGUs in an MPS Group were operated in compliance with the requirements of this Section.

vi) A certification by a responsible official that states the following:

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.

B) By November 1 of each year, the owner and operator of EGUs in an MPS Group must submit to the Agency's Bureau of Air, Compliance Section, a report demonstrating compliance with the seasonal emissions standards under subsections (e)(1)(D), (e)(1)(E)(ii), and (f)(1) ~~of this Section~~, as applicable. ~~Such~~The compliance report must include the following for the preceding May 1 through September 30:

i) Actual emissions of NOx, expressed in tons, for each individual EGU in the MPS Group.

ii) Combined actual emissions of NOx, expressed in tons, of all EGUs in the MPS Group.

iii) NOx average emission rate (lbs/mmBtu) for each of Baldwin Units 1 and 2; Coffeen Units 1 and 2; Duck Creek Unit 1; E.D. Edwards Unit 3; and Havana Unit 9, as applicable.

iv) Combined NOx average emission rate (lbs/mmBtu) for Baldwin Units 1 and 2; Coffeen Units 1 and 2; Duck Creek Unit 1; E.D. Edwards Unit 3; and Havana Unit 9, as applicable under subsection (e)(1)(E)(ii) ~~of this Section~~.

v) A statement indicating whether the EGUs in an MPS Group were operated in compliance with the requirements of this Section.

vi) A certification by a responsible official that states the following:

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.

3) For each EGU in an MPS Group, the owner or operator must notify the Agency of deviations from any of the requirements of this Section within 30 days after discovery of the deviations. At a minimum, these notifications must include a description of ~~such~~the deviations, a discussion of the possible cause of ~~such~~the deviations, and a description of any corrective actions and preventative measures taken.

4) Within 30 days ~~of~~after the beginning of a period during which the SCR control system on any of Baldwin Unit 1, Baldwin Unit 2, Coffeen Unit 1, Coffeen Unit 2, Duck Creek Unit 1, E.D. Edwards Unit 3, or Havana Unit 9 is not operated when the EGU it serves is in operation, the owner and operator must notify the Agency's Bureau of Air, Compliance Section, in writing. This notification must include, at a minimum, a description of why the SCR control system was not operated, the time frames during which the SCR control system was not operated, and the steps taken to minimize emissions during those time frames.

(Source: Amended at 42 Ill. Reg.         , effective                      -)  
~~ILLINOIS REGISTER~~

~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENT~~

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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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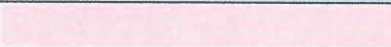

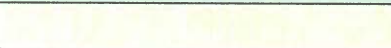
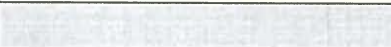
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~~POLLUTION CONTROL BOARD~~

~~NOTICE OF PROPOSED AMENDMENTS~~

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