DOCUMENT 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506

RENEE CIPRIANO, DIRECTOR

217-782-2113

ACID RAIN PROGRAM PERMIT

IEPA
Division of Records Management
Releasable
JAN 03 2022
Reviewer MDR

Prairie State Generating Company, LLC
Attn: Mr. Lars W. Scott, Designated Representative
701 Market Street, Suite 781
St. Louis, Missouri 63010

Oris No.:	55856
Illinois EPA I.D. No.:	189808AAB
Source/Unit:	Prairie State Generating Company, LLC, Units 01 and 02
Date Received:	October 11,2002
Date Issued:	January 14, 2005
Effective Date:	January 1, 2007
Expiration Date:	December 31, 2011

STATEMENT OF BASIS:

In accordance with Section 39.5(17)(b) of the Illinois Environmental Protection Act and Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program permit for the Prairie State Generating Station.

SULFUR DIOXIDE (SO_2) ALLOCATIONS AND NITROGEN OXIDE (NO_x) REQUIREMENTS FOR EACH AFFECTED UNIT:

Unit 01 and Unit 02	SO_2 Allowances	These units are not entitled to an allocation of SO_2 allowances pursuant to 40 CFR Part 73.
	NO_x Emission Limitation	These units are subject to a NO_x emissions limitation under 40 CFR Part 76.

This Acid Rain Program permit contains provisions related to sulfur dioxide (SO_2) emissions and requires the owners and operators to hold SO_2 allowances to account for SO_2 emissions beginning in the year 2000. An allowance is a limited authorization to emit up to one ton of SO_2 during or after a specified calendar year. Although this plant is not eligible for an allowance allocated by USEPA, the owners or operators may obtain SO_2 allowances to cover emissions from other sources under a marketable allowance program. The transfer of allowances to and from a unit account does not necessitate a revision to this permit (See 40 CFR 72.84).

This permit contains provisions related to nitrogen oxide (NO_x) emissions requiring the owners or operators to monitor NO_x emissions from affected units in accordance with the applicable provisions of 40 CFR Part 75.

This Acid Rain Program permit does not authorize the construction and operation of the affected units as such matters are addressed by Titles I and V of the Clean Air Act. If the construction and operation of one of the affected units is not undertaken, this permit shall not cover such unit.

In addition, notwithstanding the effective date of this permit as specified above, this permit shall not take effect for an individual affected unit until January 1 of the year in which the unit commences operation.

COMMENTS, NOTES AND JUSTIFICATIONS:

This permit does not affect the owners and operators responsibility to meet all other applicable local, state, and federal requirements, including requirements addressing SO_2 and NO_x emissions.

PERMIT APPLICATION:

The SO_2 allowance requirements and other standard requirements as set forth in the application are incorporated by reference into this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

If you have any questions regarding this permit, please contact Shashi Shah at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permits Section
Division of Air Pollution Control

DES:SRS:jar

cc: Cecilia Mijares, USEPA Region V
Illinois EPA Region 3

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Certificate of Representation

For more information, see instructions and refer to 40 CFR 72.24

This submission is: ☐ New ☐ Revised (revised submissions must be completed in full; see instructions)

This submission includes combustion or process sources under 40 CFR part 74 ☐

STEP 1
Identify the source by plant name, State, and ORIS code.

Plant Name	State	ORIS Code
Prairie State Generating Station	IL	55856

STEP 2
Enter requested information for the designated representative.

Name	Lars W. Scott
Address	Prairie State Generating Station, 701 Market Street, Saint Louis, MO 63101
Phone Number	314-342-7594
Fax Number	314-342-7797
E-mail address (if available)	LScott@peabodyenergy.com

STEP 3
Enter requested information for the alternate designated representative, if applicable.

Name	
Phone Number	Fax Number
E-mail address (if available)	

STEP 4
Complete Step 5, read the certifications, and sign and date. For a designated representative of a combustion or process source under 40 CFR part 74, the references in the certifications to "affected unit" or "affected units" also apply to the combustion or process source under 40 CFR part 74 and the references to "affected source" also apply to the source at which the combustion or process source is located.

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the 'designated representative' for the affected source and each affected unit at the source identified in this certificate of representation, in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

The agreement by which I was selected as the alternate designated representative, if applicable, includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative.

Plant Name (from Step 1) Prairie State Generating Station

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Signature (designated representative)	Date 10-11-02
Signature (alternate designated representative)	Date

STEP 5
Provide the name of every owner and operator of the source and identify each affected unit (or combustion or process source) they own and/or operate.

Name Prairie State Generating Company, LLC					X Owner	☐ Operator
ID# 01	ID# 02	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name					☐ Owner	☐ Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name					☐ Owner	☐ Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Name					☐ Owner	☐ Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: X New ☐ Revised

STEP 1
Identify the source by plant name, State, and ORIS code.

PRAIRIE STATE GENERATING STATION	IL	55856
Plant Name	State	ORIS Code

STEP 2
Enter the unit ID# for each affected unit, and indicate whether a unit is being repowered and the repowering plan being renewed by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e.

a	b	c	d	e
Unit ID#	Compliance Plan: Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Compliance Plan: Repowering Plan	New Units: Commence Operation Date	New Units: Monitor Certification Deadline
01	Yes	NO	08-2007	
02	Yes	NO	08-2007	
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

STEP 3
Check the box if the response in column c of Step 2 is "Yes" for any unit.

☐ For each unit that is being repowered, the Repowering Extension Plan form is included.

PRAIRIE STATE GENERATING STATION
Plant Name (from Step 1)

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Standard Requirements

Permit Requirements.

(1) The designated representative of each affected source and each affected unit at the source shall:
(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
(ii) Have an Acid Rain Permit.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each source and each affected unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

PRAIRIE STATE GENERATING STATION Plant Name (from Step 1)	Phase II Permit - Page 3

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of
the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7, 72.8, or 72.14 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Lars W. Scott	
Signature Lars W. Scott	10-11-02 Date

DOCUMENT 2

PRAIRIE STATE GENERATING COMPANY, LLC
1739 New Marigold Road
Marissa, IL 62257

January 28, 2010

189808AAB
10010033
1/29/10

Illinois EPA – Air Compliance Section
Illinois Environmental Protection Agency
Bureau of Air
Compliance and Enforcement Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

Illinois EPA – Air Regional Field Office
Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

RECEIVED
JAN 29 2010
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

Subject: Prairie State Energy Campus
Bechtel Job No. 25316
Mine Equipment Startup and CAAPP Permit Application
Facility ID: 189808AAB

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

Gentlemen:

In December 2009, Prairie State Generating Company, LLC (PSGC) submitted notices of equipment startup to the Illinois EPA for two emission sources, EP104 and EP118A. The two sources, which are conveyor belts, are located at the PSGC facility mine and have been used only for construction activity at the mine. In its notices to the Illinois EPA, PSGC indicated that NSPS Subpart Y startup for these two sources will occur at a future date when mine construction is completed and coal handling begins.

For the purpose of establishing the CAAPP operating permit application deadline, PSGC understands that the application is due no later than 12 months following the first affected unit startup. Based on the schedule to complete construction and commence coal handling in April 2010, the CAAPP operating permit application would have to be submitted before April 2011. To be conservative, PSGC is submitting a CAAPP application for the two mine sources with this correspondence, even though it is our understanding that a CAAPP application is not yet required. Attached are three (3) copies of the CAAPP application for EP104 and EP118A.

The attached CAAPP application includes Forms 292, 293, 296, and 286.

Following the initial compliance date for EP104 and EP118A, PSGC will submit a compliance certification as indicated in the attached CAAPP application.

RECEIVED
FEB 02 2010
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

PREVIOUSLY IMAGED

If you require additional information or have any questions regarding this issue, please contact Allison Lauf at (618) 824-7690.

Sincerely,

Peter DeQuattro
President and CEO

Attachments(3)

Cc: Mark Shepherd, PSGC
Dave Price, PSGC
Pete DeQuattro, PSGC
Tom Schmid, Burns & McDonnell
Michelle Golden, Bechtel
Michael Collier, Bechtel
Penny Shamblin, Hunton & Williams

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: Prairie State Generating

COMPLIANCE PLAN/ SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

THE CLEAN AIR ACT PERMIT PROGRAM (CAAPP) REQUIRES THAT THE APPLICANT SUBMIT A COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR ALL EMISSION UNITS AT THE CAAPP SOURCE, REGARDLESS OF THE COMPLIANCE STATUS OF EACH INDIVIDUAL EMISSION UNIT. THIS FORM REQUIRES THAT THE COMPLIANCE STATUS BE STATED FOR EACH EMISSION UNIT. APPLICATION FORM 294-CAAPP, "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE - ADDENDUM FOR NON COMPLYING EMISSION UNITS," MUST BE SUBMITTED FOR EACH EMISSION UNIT NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF SUBMITTAL.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 1/28/2010

3) SOURCE ID NO. (IF KNOWN): 189808AAB

SOURCE COMPLIANCE INFORMATION

4) DESCRIBE THE COMPLIANCE STATUS OF THE SOURCE WITH ALL APPLICABLE REQUIREMENTS (E.G., "SOURCE IS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS"):

EP104 and EP118A are in compliance with all applicable requirements. No other units are operational.

5) IF IN COMPLIANCE, WILL THE SOURCE CONTINUE TO COMPLY WITH ALL APPLICABLE REQUIREMENTS?

☒ YES ☐ NO

IF NO, EXPLAIN:

6) WILL THE SOURCE MEET, ON A TIMELY BASIS, APPLICABLE REQUIREMENTS WHICH BECOME EFFECTIVE DURING THE PERMIT TERM?

☒ YES ☐ NO

IF NO, EXPLAIN

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

EMISSION UNITS COMPLIANCE INFORMATION

7) EMISSION UNITS IN COMPLIANCE

THE FOLLOWING EMISSION UNITS ARE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AND WILL CONTINUE TO COMPLY WITH SUCH REQUIREMENTS DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-1:

DESIGNATION ID NUMBER	EMISSION UNIT
EP104	Mine Conveyor 1 Transfer to Mine Conveyor 2
EP118A	Mine Conveyor 2 Transfer to 6000-ton Surge Pile

EMISSION UNITS COMPLIANCE INFORMATION (cntd)

DESIGNATION ID NUMBER	EMISSION UNIT

8) EMISSION UNITS SUBJECT TO FUTURE COMPLIANCE DATES

THE FOLLOWING EMISSION UNITS, WHICH ARE CURRENTLY IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, WILL ACHIEVE ON A TIMELY BASIS, AND MAINTAIN COMPLIANCE WITH, FUTURE COMPLIANCE DATES AS THEY BECOME APPLICABLE DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-2:

DESIGNATION ID NUMBER	EMISSION UNIT	FUTURE COMPLIANCE DATE (MONTH/DAY/YEAR)		
EP104	Mine Conveyor 1 to Mine Conveyor 2	04	01	2010
EP118A	Mine Conveyor 2 to 6000-ton Surge Pile	04	01	2010

9a) EMISSION UNITS NOT IN COMPLIANCE - COMPLIANCE TO BE ACHIEVED PRIOR TO PERMIT ISSUANCE
THE FOLLOWING EMISSION UNITS ARE NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT APPLICATION. HOWEVER, THESE EMISSION UNITS WILL ACHIEVE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS PRIOR TO PERMIT ISSUANCE AND WILL CONTINUE TO COMPLY WITH SUCH REQUIREMENTS DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-3:

DESIGNATION ID NUMBER	EMISSION UNIT	FUTURE COMPLIANCE DATE (MONTH/DAY/YEAR)

b) THE FOLLOWING IS A NARRATIVE DESCRIPTION OF THE MEANS BY WHICH COMPLIANCE WILL BE ACHIEVED FOR EACH OF THE EMISSION UNITS LISTED IN 9a) ABOVE. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-4:

10) EMISSION UNITS NOT IN COMPLIANCE - COMPLIANCE WILL NOT BE ACHIEVED PRIOR TO PERMIT ISSUANCE
THE FOLLOWING EMISSION UNITS WILL NOT BE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT ISSUANCE. A FORM 294-CAAPP, "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE - ADDENDUM FOR NON COMPLYING EMISSION UNITS," MUST BE SUBMITTED FOR EMISSION UNITS NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT ISSUANCE. A FORM 294-CAAPP IS SUBMITTED FOR THE FOLLOWING EMISSION UNITS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-5:

DESIGNATION ID NUMBER	EMISSION UNIT	DATE COMPLIANCE SCHEDULED TO BE ACHIEVED (MONTH/DAY/YEAR)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: Prairie State Generating

COMPLIANCE CERTIFICATION	FOR AGENCY USE ONLY
	ID NUMBER:
	PERMIT #:
	DATE:

AN APPLICATION FOR A CAAPP PERMIT MUST CONTAIN A CERTIFICATION OF COMPLIANCE SIGNED BY A RESPONSIBLE OFFICIAL. THIS FORM MUST BE SUBMITTED WITH THE ORIGINAL CAAPP PERMIT APPLICATION AND UPDATED ON AN ANNUAL BASIS.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 01/28/2010

3) SOURCE ID NO. (IF KNOWN): 189808AAB

4) CAAPP PERMIT NUMBER (IF KNOWN): 01100065

5) IS THIS THE FIRST SUBMITTAL OF THIS FORM? ☐ YES ☐ NO

IF NO, WHAT IS THE REPORTING PERIOD COVERED BY THIS FORM? _____ / _____ / _____ TO: _____ / _____ / _____

SOURCE COMPLIANCE INFORMATION

6) DOES THE SIGNATORY OF THIS FORM HEREBY CERTIFY THAT THE SOURCE IS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?
EP104 and EP118A have not yet begun to handle coal and currently are not subject to NSPS Subpart Y requirements. ☒ YES ☐ NO

IF NO, EXPLAIN:

7) PROVIDE THE SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATION DURING THE PERMIT TERM, E.G., ONCE ANNUALLY IN JANUARY (NOTE THAT SUCH CERTIFICATION MUST BE SUBMITTED NO LESS FREQUENTLY THAN ANNUALLY):

Once annually in April. The first affected sources to be started up at the facility will be EP104 and EP118A, currently scheduled to occur after mine construction is complete in April 2010.

8) INDICATE THE COMPLIANCE STATUS OF THE SOURCE WITH ANY APPLICABLE ENHANCED MONITORING AND COMPLIANCE CERTIFICATION REQUIREMENTS OF THE CLEAN AIR ACT, E.G., NO ENHANCED MONITORING REQUIRED AND IN COMPLIANCE WITH COMPLIANCE CERTIFICATION REQUIREMENTS:

No enhanced monitoring and compliance certification requirements of the Clean Air Act apply at this time.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

APPLICATION PAGE 7

EMISSION UNITS COMPLIANCE INFORMATION

9a) THE FOLLOWING EMISSION UNITS ARE IN COMPLIANCE WITH APPLICABLE REQUIREMENTS SUCH AS EMISSION STANDARDS, EMISSION CONTROL REQUIREMENTS, EMISSION TESTING, COURT REQUIREMENTS, WORK PRACTICES, OR ENHANCED MONITORING, BASED ON THE COMPLIANCE METHODS SPECIFIED BELOW (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-1)

EMISSION UNIT	APPLICABLE RULE	COMPLIANCE DETERMINATION METHOD

9b) LIST THE EMISSION UNITS THAT WERE NOT IN CONTINUOUS COMPLIANCE SINCE THE LAST REPORTING PERIOD, AND THE REASON(S) FOR NONCOMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-2.):

EMISSION UNIT	REASON(S) FOR NONCOMPLIANCE

COMPLIANCE INFORMATION

10) SUMMARY OF METHODS USED TO DETERMINE COMPLIANCE:

a) DESCRIPTION OF TESTING METHODS USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-3.):

10b) DESCRIPTION OF MONITORING PROCEDURES USED TO DEMONSTRATE COMPLIANCE, INCLUDING ANY ENHANCED MONITORING REQUIREMENTS OF THE ACT (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-4)

c) DESCRIPTION OF RECORDKEEPING USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-5.):

10d) DESCRIPTION OF REPORTING USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-6.):

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

11) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: _____
AUTHORIZED SIGNATURE

President and CEO
TITLE OF SIGNATORY

Peter DeQuattro
TYPED OR PRINTED NAME OF SIGNATORY

01 / 29 / 2010
DATE

DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

Date: ____ / ____ / ____
Page ____ of ____
Source Designation:

SINGLE SOURCE DETERMINATION

FOR AGENCY USE ONLY
ID NO.:
PERMIT NO.:
DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 01 / 28 / 2010

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE SECTION FOUR FOR **EACH** SOURCE THAT THE PERMITTEE DETERMINES **IS** OPERATING AS A SINGLE SOURCE WITH THE PERMITTEE. THIS SECTION MAY BE COPIED AS NEEDED FOR ADDITIONAL SOURCES OR IF ADDITIONAL SPACE IS NEEDED. IF COMPLETING THIS SECTION THERE IS NO NEED TO COMPLETE SECTION FIVE OF THIS FORM AS THE SOURCE CONFIRMS A SINGLE SOURCE RELATIONSHIP.

2) COMPLETE SECTION FIVE FOR **EACH** SOURCE THAT THE PERMITTEE CONFIRMS **IS NOT** OPERATING AS A SINGLE SOURCE WITH THE PERMITTEE. CHECK ALL THAT APPLY AND PROVIDE AS AN ATTACHMENT TO THIS FORM A CONCISE BUT THOROUGH EXPLANATION OF EACH CHECKED SINGLE SOURCE FACTOR. REFERENCE THE ATTACHMENT(S) USING THE APPROPRIATE SINGLE SOURCE FACTOR CONDITION. THIS SECTION MAY BE COPIED AS NEEDED FOR ADDITIONAL SOURCES OR IF ADDITIONAL SPACE IS NEEDED.

3) REFER TO 286-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE — SINGLE SOURCE STATUS

WHAT IS YOUR SOURCE STATUS (CHOOSE ONE OF THE FOLLOWING):

1) ☐ THE ABOVE MENTIONED SOURCE **IS** A SINGLE SOURCE WITH ANOTHER SOURCE.

2) ☐ THE ABOVE MENTIONED SOURCE **IS** A SINGLE SOURCE WITH MULTIPLE SOURCES.

3) ☒ THE ABOVE MENTIONED SOURCE **IS NOT** A SINGLE SOURCE WITH ANOTHER SOURCE.

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: Peter DeQuattro
AUTHORIZED SIGNATURE

President and CEO
TITLE OF SIGNATORY

Peter DeQuattro
TYPED OR PRINTED NAME OF SIGNATORY

01 / 29 / 2010
DATE

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5 FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

SECTION FOUR — OPERATING AS A SINGLE SOURCE WITH THIS FACILITY

COMPLETE THE FOLLOWING TABLE FOR ALL SOURCES WHICH ARE CONSIDERED SINGLE SOURCES WITH THIS SOURCE. FOR THE REQUESTED SINGLE SOURCE DESCRIPTION COLUMN, DESCRIBE THE FUNCTION AND PRODUCT/SERVICE PROVIDED BY THE SINGLE SOURCE. FOR THE REQUESTED SINGLE SOURCE RELATIONSHIP COLUMN, DESCRIBE THE INTERACTION(S) WITH THE SINGLE SOURCE BY CHOOSING FROM AMONG THE FOLLOWING REASONS LISTED BELOW, AND BRIEFLY EXPLAIN IF NECESSARY. USE ADDITIONAL PAGES OR ATTACHMENTS AS NECESSARY.

#	SOURCE NAME	SOURCE ID#	ADDRESS	SINGLE SOURCE DESCRIPTION	SINGLE SOURCE RELATIONSHIP [A]
1	Prairie State Generating Station	189808AAB	1739 New Marigold Rd. Marissa, IL 62257	Electric generating station with on-site coal mine	
2	Not applicable				
3					
4					
5					

A CHOOSE OF THE FOLLOWING REASONS AND BRIEFLY EXPLAIN IF NECESSARY: 1) SAME SIC CODE, 2) SHARED COMPANY STRUCTURE (E.G., SAME PARENT COMPANY, SISTER COMPANIES, ETC.); 3) CONTRACTUAL RELATIONSHIP(S); 4) PROCESS/PRODUCTION CO-DEPENDENCY; 5) CONTIGUOUS OR ADJACENT PROPERTIES; 6) INTEGRATED FACILITIES 7) SUPPORT FACILITY RELATIONSHIP (E.G., CONVEYS, STORES, OR OTHERWISE ASSISTS IN THE PRODUCTION OF A PRINCIPAL PRODUCT AT ANOTHER SOURCE), OR 8) OTHER (EXPLAIN).

SECTION FIVE NOT OPERATING AS A SINGLE SOURCE WITH THIS FACILITY

1) SOURCE NAME:	
2) SOURCE STREET ADDRESS:	
3) CITY:	
4) ZIP:	5) PRIMARY SIC NO.:
6) PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY:	
7) LATITUDE (DD:MM:SS):	8) LONGITUDE (DD:MM:SS):

SINGLE SOURCE FACTORS: SINGLE MAJOR INDUSTRIAL GROUPING (SIC CODE)

9) THE ABOVE MENTIONED SOURCE IS A STATIONARY SOURCE BELONGING TO A **SINGLE MAJOR INDUSTRIAL GROUPING (SIC CODE)**:

[X] YES [ ] NO

PRIMARY SIC NO. OF THE SINGLE SOURCE: 4911

SINGLE SOURCE FACTORS: COMMON CONTROL

10) THE ABOVE MENTIONED SOURCE IS A STATIONARY SOURCE UNDER **COMMON CONTROL**:

[ ] YES [X] NO IF "YES", CONTINUE TO QUESTION 11 AS THE SOURCE CONFIRMS A COMMON CONTROL RELATIONSHIP.

A	[ ]	SAME "PARENT" COMPANY BETWEEN THE TWO (OR MORE) FACILITIES?
B	[ ]	CONTRACTUAL RELATIONSHIPS BETWEEN THE TWO (OR MORE) FACILITIES?
C	[ ]	A FINANCIAL CO-DEPENDENCY BETWEEN THE TWO (OR MORE) FACILITIES?
D	[ ]	JOINT OWNERSHIP BETWEEN THE TWO (OR MORE) FACILITIES?
E	[ ]	VOTING INTEREST BETWEEN THE TWO (OR MORE) FACILITIES?
F	[ ]	SHARED LIABILITY BETWEEN THE TWO (OR MORE) FACILITIES?
G	[ ]	SHARED MANAGERIAL HIERARCHY BETWEEN THE TWO (OR MORE) FACILITIES?
H	[ ]	CONTRACT-FOR-SERVICE RELATIONSHIP BETWEEN THE TWO (OR MORE) FACILITIES?
I	[ ]	PROCESS/PRODUCTION CO-DEPENDENCY BETWEEN THE TWO (OR MORE) FACILITIES?
J	[ ]	ADJACENT LOCATION BETWEEN THE TWO (OR MORE) FACILITIES?
K	[ ]	FINANCIAL INTEREST BETWEEN THE TWO (OR MORE) FACILITIES?
L	[ ]	COMMON EMPLOYEES BETWEEN THE TWO (OR MORE) FACILITIES?
M	[ ]	SHARED EQUIPMENT BETWEEN THE TWO (OR MORE) FACILITIES?
N	[ ]	LANDLORD-TENANT RELATIONSHIP BETWEEN THE TWO (OR MORE) FACILITIES?
O	[ ]	FUNDING RELATIONSHIP BETWEEN THE TWO (OR MORE) FACILITIES?
P	[ ]	SHARED PRODUCTS OR BY-PRODUCTS BETWEEN THE TWO (OR MORE) FACILITIES?
Q	[ ]	SHARED TRANSPORTATION/PROCESS LINE BETWEEN THE TWO (OR MORE) FACILITIES?
R	[ ]	SHARED PAYROLL ACTIVITY, EMPLOYEE BENEFITS, HEALTH PLANS, RETIREMENT FUNDS, INSURANCE COVERAGE, OR OTHER ADMINISTRATIVE FUNCTIONS BETWEEN THE TWO (OR MORE) FACILITIES?
S	[ ]	SHARED RESPONSIBILITY FOR COMPLIANCE WITH AIR QUALITY CONTROL REQUIRMENTS BETWEEN THE TWO (OR MORE) FACILITIES?
T	[ ]	OTHER (EXPLAIN):

SINGLE SOURCE FACTORS: CONTIGUOUS OR ADJACENT PROPERTIES

11) THE ABOVE MENTIONED SOURCE IS A STATIONARY SOURCE LOCATED ON ONE OR MORE CONTIGUOUS OR ADJACENT PROPERTIES:

☐ YES ☒ NO IF "YES", CONTINUE TO QUESTION 12 AS THE SOURCE CONFIRMS A CONTIGUOUS OR ADJACENT RELATIONSHIP.

APPROXIMATE STRAIGHT LINE DISTANCE TO THE SOURCE (MILES): _____

A	☐	WAS THE LOCATION CHOSEN DUE TO ITS PROXIMITY TO EXISTING FACILITY?
B	☐	ARE THE FACILITIES INTEGRATED SUCH THAT THEY SIGNIFICANTLY AFFECT THE DEGREE TO WHICH THEY MAY BE DEPENDANT ON EACH OTHER?
C	☐	ARE MATERIALS ROUTINELY TRANSFERRED BETWEEN FACILITIES? ☐ WATERWAY ☐ RAILWAY ☐ OVER THE ROAD - PUBLIC ROAD ☐ OVER THE ROAD - SPECIAL-PURPOSE ROAD ☐ PIPELINE ☐ OTHER (EXPLAIN): _____
D	☐	ARE EMPLOYEES SHUTTLED BETWEEN FACILITIES? ☐ LINE WORKERS ☐ MAINTENANCE AND/OR REPAIR CREWS ☐ ADMINISTRATIVE PERSONNEL ☐ SECURITY ☐ ENVIRONMENTAL STAFF ☐ OTHER (EXPLAIN): _____
E	☐	ARE PRODUCTION PROCESSES SPLIT BETWEEN FACILITIES AND/OR IS THERE A FUNCTIONAL INTER-RELATIONSHIP: ☐ COMPONENTS PROCESSED IN FACILITY #1 AND FINISHED IN FACILITY #2. ☐ RAW MATERIAL PROCESSED IN FACILITY #1 AND FINISHED IN FACILITY #2. ☐ A BYPRODUCT PRODUCED IN FACILITY #1 AND PROCESSED IN FACILITY #2. ☐ OTHER (EXPLAIN): _____
F	☐	OTHER (EXPLAIN):

SINGLE SOURCE FACTORS: SUPPORT FACILITY RATIONALE

12) THE ABOVE MENTIONED SOURCE IS A STATIONARY SOURCE OPERATING AS A SUPPORT FACILITY.

☐ YES ☐ NO IF "YES", STOP AS THE SOURCE CONFIRMS A SUPPORT FACILITY RELATIONSHIP.

A	☐	THE SOURCE CONVEYS, STORES, OR OTHERWISE ASSISTS IN THE PRODUCTION OF A PRINCIPAL PRODUCT AT ANOTHER STATIONARY SOURCE (OR GROUP OF STATIONARY SOURCES).
B	☐	THE SOURCE PROVIDES MORE THAN 50 PERCENT OF ITS OUTPUT OR SERVICE TO ANOTHER STATIONARY SOURCE (OR GROUP OF STATIONARY SOURCES)?
C	☐	THE SOURCE'S PROCESSES ARE SOLELY DERIVED/SUPPLIED FROM/TO ANOTHER STATIONARY SOURCE (OR GROUP OF STATIONARY SOURCES).
D	☐	THE SOURCE HAS THE "TECHNICAL CAPABILITY" TO PROVIDE OUTPUT OR SERVICE TO OTHER CUSTOMERS.
E	☐	THE SOURCE WOULD NOT EXIST AT THAT SITE BUT FOR ANOTHER STATIONARY SOURCE (OR GROUP OF STATIONARY SOURCES).
F	☐	THE SOURCE HAS PRODUCTION PROCESS SPLIT BETWEEN ANOTHER STATIONARY SOURCE (OR GROUP OF STATIONARY SOURCES) AND/OR THERE IS FUNCTIONAL INTER-RELATIONSHIP: ☐ COMPONENTS PROCESSED IN FACILITY #1 AND FINISHED IN FACILITY #2. ☐ RAW MATERIAL PROCESSED IN FACILITY #1 AND FINISHED IN FACILITY #2. ☐ A BYPRODUCT PRODUCED IN FACILITY #1 AND PROCESSED IN FACILITY #2. ☐ OTHER (EXPLAIN): _____
G	☐	OTHER (EXPLAIN):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

FEE DETERMINATION FOR CAAPP SOURCE

FOR AGENCY USE ONLY
ID NO.:
PERMIT NO.:
DATE:

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 01 / 28 / 2010

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THIS FORM TO DETERMINE THE PERMIT FEE ESTABLISHED BY THE CAAPP PERMIT.

2) THE EMISSION LEVELS STATED IN SECTION FOUR, WHICH ARE ONLY USED FOR THE PURPOSE OF PERMIT FEE DETERMINATION, WILL BECOME PERMIT SPECIAL CONDITIONS IN THE CAAPP PERMIT.

3) THE ILLINOIS EPA DOES NOT REQUIRE PAYMENT WITH THIS APPLICATION. WHEN YOU ARE BILLED MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS AT THE TOP OF THIS FORM. **DO NOT SEND CASH**. ON THE CHECK MEMO LINE, PLEASE LIST "CAAPP OPERATING PERMIT FEE: ID NO. XXXXXXXXX", REPLACE THE Xs WITH YOUR SOURCE ID NUMBER.

SECTION THREE — FEE RATIONALE

WHAT IS THE PERMIT STATUS AT THE TIME OF THIS REQUEST? CHECK ONLY ONE BELOW.

1) ☐ INITIAL CAAPP PERMIT ☐ RENEWAL CAAPP PERMIT ☐ FESOP INITIAL/RENEWAL
☐ SIGNIFICANT MODIFICATION ☐ MINOR MODIFICATION ☒ ADMINISTRATIVE AMENDMENT

2) COMPLETE THE BELOW TABLE FOR A NON-INITIAL CAAPP PERMIT. IF THERE IS AN INCREASE/DECREASE IN EMISSIONS, ENTER THE NUMBER(S) FOR THE EMISSIONS CHANGE RATIONALE AS APPROPRIATE.

POLLUTANT	INCREASE	DECREASE	NO CHANGE	EMISSIONS CHANGE RATIONALE(S)		
NITROGEN OXIDES (NO_X)	☐	☐	☒			
PARTICULATE MATTER (PART)	☐	☐	☒			
SULFUR DIOXIDE (SO_2)	☐	☐	☒			
VOLATILE ORGANIC MATERIAL (VOM)	☐	☐	☒			
OTHER (SPECIFY)	☐	☐	☒			
OTHER (SPECIFY)	☐	☐	☒			

CHANGE RATIONALE:

1 BUSINESS DECISION (E.G., OPERATING NEEDS, BANKRUPTCY, ETC.).
2 REMOVAL OR ADDITION OF PROCESSES AT THE SOURCE.
3 INCLUSION OR REMOVAL OF A CONTROL DEVICE.
4 CHEMICAL REFORMULATION (E.G., REFORMULATING A COATING FROM HIGH VOM TO A LOW VOM).
5 FUEL SWITCHING (E.G., COAL TO NATURAL GAS, ETC.).
6 METHODOLOGY CHANGE (E.G., SWITCHING A PETROLEUM SOLVENT TO AQUEOUS SOLUTION).
7 CHANGES IN METHOD USED FOR CALCULATIONS (E.G., EMISSION FACTOR CHANGE).
8 OTHER (DESCRIBE): _____
9 OTHER (DESCRIBE): _____

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 1

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STATE OF ILLINOIS

SECTION FOUR — FEE DATA

1) WILL THE SOURCE PAY THE CURRENT MAXIMUM FEE OF $250,000.00 PER YEAR? ☒ YES ☐ NO

IF YES, THE REMAINDER OF THIS FORM DOES NOT NEED TO BE COMPLETED

2) EMISSION UNIT [A]	NITROGEN OXIDES (NO_X) (TONS/YR)	PARTICULATE MATTER (PART) (TONS/YR)	SULFUR DIOXIDE (SO_2) (TONS/YR)	VOLATILE ORGANIC MATERIAL (VOM) (TONS/YR)	OTHER [B] SPECIFY _____ (TONS/YR)
3) SUBTOTAL					
4) FUGITIVE					
5) TOTAL					

6) GRAND TOTAL ACROSS POLLUTANTS (TONS/YR):	
7) CALCULATED PERMIT FEE: IF GRAND TOTAL IN ITEM 6 ABOVE IS > 100 TONS/YR THEN MULTIPLY GRAND TOTAL BY $18.00 AND ENTER, OTHERWISE ENTER $1,800.00:	
8) MINIMUM PERMIT FEE IS $1,800.00 PER YEAR. MAXIMUM PERMIT FEE IS $250,000.00 PER YEAR. IF THE CALCULATED PERMIT FEE IN ITEM 7 ABOVE IS BETWEEN THESE TWO FEE AMOUNTS THEN ENTER HERE, OTHERWISE ENTER THE MINIMUM OR MAXIMUM PERMIT FEE, WHICHEVER IS APPLICABLE. THIS IS THE ACTUAL ANNUAL PERMIT FEE:	

A EMISSION UNIT - PROVIDE THE NAME AND FLOW DIAGRAM DESIGNATION OF THE EMISSION UNIT AS IT APPEARS ON THE DATA AND INFORMATION FORM.

B OTHER - ANY HAZARDOUS AIR POLLUTANT (HAP) NOT INCLUDED ELSEWHERE, E.G., CHLORINE, HCl, ETC

Source I.D. # - 151 SCS 0033

Source Name - Prairie State Generating Station

Permit # - 10 01 0033

Date Received - 1-29-10

Type of Application - ☐ Initial ☑ New ☐ Renewal

Completeness Review Due by - 3-30-10

Expiration Date on previous permit- n/a

IEPA-DIVISION OF RECORDS MANAGEMENT RELEASABLE

OCT 24 2014

REVIEWER: JKS

1. Is Section 4 on CAAPP 200 form, question#8 - #10 ALL marked Yes?
   ☐ Yes ☐ No (If Yes, only check for 200, ~~293~~ 292, 296 and 299 forms in ques. #6 below)
2. Does the source name in ICEMAN match the Source name on the application?
   ☐ Yes ☐ No (If No, request a 271 and 272 if an ownership change).

Responsible Official - Peter DeQuattro

3. Does the signature in the certification blocks for the forms match the Responsible Official on the previous permit (check to make sure all signature blocks have the same signature)?
   ☑ Yes ☐ No (If No, request a 271 or a 500 if delegating authority)
4. Are there any violation notices pending? (search VN tracking database).
   ☐ Yes ☑ No (If Yes, forward to CAAPP Unit Manager for review)
5. Is there trade secret/confidentiality claims made on the application (CAAPP 200, Section 5, question #27)?
   ☐ Yes ☑ No (If Yes, forward to CAAPP Unit Manager for review)
6. Check for the following forms(mark those present in the application):
   ☐ Form 200 ☑ Form 286 ☐ ~~Form 299~~ (FESOP's only)
   ☐ Form 287 (if anything in Section 5 of Form 200, "Incorporate by Reference" column was marked)
   ☑ Form 292 ☑ Form 296
   ☑ Form 293 ☐ Form 464 (if a new application or first time renewal)
7. In Section 5 of CAAPP 200, were question #1 - #6 ALL marked Yes or Incorporate by Reference?
   ☐ Yes ☐ No (If No, information must be requested. See #9 - #15 in this Section of CAAPP 200)
8. Is additional form(s) and information needed from the source?
   ☑ Yes ☐ No (For CAAPP's - If Yes, continue to #9 - #15 on this review sheet. If No, skip to #16)
   (For FESOP's – Forward ALL applications to the FESOP Unit Manager for additional review)
9. Contact Name / Phone # -
10. Which information or forms were requested from the source (list them in the table with this review sheet)?
11. Was the source contacted by phone/email? ☐ Yes ☐ No (If No, an NOI must be sent to the source. Go to #14 - #15) If Yes, What was the date phone call was made or email sent?
12. Date additional forms to be submitted - (10 calendar days from phone call/email)
13. Date additional forms received - (if additional forms were not received by the date identified in #12 above, send an NOI)
14. Date NOI was sent to the source - (allow 15 days for response)
    Date response to NOI received - ☐ No response received by completeness due date

    Date renewal due: n/a
15. Is the application timely (renewal only)? ☐ Yes ☐ No (If No, send an email to CES and CAAPP Unit Mgr.)

DOCUMENT 3

PERMIT REVIEW TRAVELER SHEET

I.D. # 189808AAB | Source Name Prairie State Generating Station | Date Received 1-29-2010
Application # 10010033 | Location Marissa | Date Opened 2-2-2010

Program STATE | Type OPERATING | Title V Type NEW

Flag	Date	Section	Contact	Expiration Date
	2-5-2007	DLC	CARTER, SALLY	2-5-2012

Emissions(Tons/Year)	CO	NOX	PM	SO2	VOM	Total HAP	Highest Single HAP
Current Allowable Rates							
Project/Total Increase							

Initial Completeness	Analyst	Unit Manager	Date of Determination	Application Complete?	
CAAPP Completeness	N/A			Yes	No
Fee Completeness	N/A			Yes	No
Technical Completeness				Yes	No

Welcome Phone Call to Permit Applicant

Date	Contact Name	Telephone#	Was Additional Information Requested?

For Incomplete Applications

Type of Letter Sent	Analyst	Unit Manager	Date Issued	Number of Items Requested (or Amount of Fee Requested)
Notice of Additional Fees				$
Notice of Incompleteness(NOI)				
Request for Additional Information(RAI)				
All Required Information Received?	Yes	No	Date Received	
Notice of Intent to Deny CAAPP				

Permit Processing	Analyst	Date	Unit Manager	Date
Draft Prepared for Unit Manager Review & Comments Returned to Analyst				
Final Draft Sent to Applicant for Comments				
Submitted to Word Processing				
Draft Permit to Community Relations	N/A			
Public Comment Period Initiated				
Public Hearing Date	N/A			
Public Comment Period Completed	N/A			
45 Day USEPA Comment Period	N/A			
USEPA Comments Received	Yes No			
Responsiveness Summary Completed	N/A			
Public Participation Completed				

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Final Action (Fill in One)	Analyst	Date	Unit Manager	Date
Permit Not Required				
Grant				
Deny				

Mail-Out				
District Office	Public Participation List	Cook County	Health Dept	
Enforcement	Other	Init	Date	

Permit Electronically Sent to	Applicant	CES	DLC	Community Relations	USEPA	AQPS	FOS
Person Sending (Initials)							

DOCUMENT 4

PRAIRIE STATE GENERATING COMPANY, LLC
1739 New Marigold Road
Marissa, IL 62257

February 10, 2010

Illinois EPA – Air Compliance Section
Illinois Environmental Protection Agency
Bureau of Air
Compliance and Enforcement Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

Illinois EPA – Air Regional Field Office
Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

Subject: Prairie State Energy Campus
Bechtel Job No. 25316
Mine Equipment Startup and CAAPP Permit Application Supplemental CAAPP Forms
Facility ID: 189808AAB

Gentlemen:

On January 28, 2010 Prairie State Generating Company, LLC (PSGC) submitted CAAPP forms to the Illinois EPA for two emission sources, EP104 and EP118A. On February 5, Ms. Penny Shamblin of Hunton & Williams provided PSGC notice that Ms. Sally Carter of the Illinois EPA requested PSGC revise the Form 292-CAAPP and submit a Form 200-CAAPP for the two emission sources.

CAAPP Forms 200 and 292 are enclosed with this correspondence. PSGC is also submitting a Form 272-CAAPP to reflect current contact information.

If you require additional information or have any questions regarding this issue, please contact Allison Lauf at (618) 824-7690.

Sincerely,

Peter DeQuattro
President and CEO

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FEB 16 2010
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS
PREVIOUSLY IMAGED

Attachments(3)

Cc: Mark Shepherd, PSGC
Dave Price, PSGC
Pete DeQuattro, PSGC
Tom Schmid, Burns & McDonnell
Michelle Golden, Bechtel
Michael Collier, Bechtel
Penny Shamblin, Hunton & Williams

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

APPLICATION FOR CAAPP PERMIT
(CHECK ONLY ONE)

[X] INITIAL APPLICATION

[ ] RENEWAL APPLICATION

FOR AGENCY USE ONLY
ID NO.:
PERMIT NO.:
DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 02 / 05 / 2010

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THE FOLLOWING FORM WHEN APPLYING FOR AN INITIAL OR RENEWAL CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT.

2) A REQUEST TO MODIFY A CAAPP PERMIT SHOULD BE COMPLETED USING FORM 271-CAAPP "APPLICATION FOR MODIFICATION TO A CAAPP PERMIT".

3) THIS FORM PROVIDES APPLICATION AND SOURCE CONTACT INFORMATION TO THE AGENCY AS WELL AS ACTS AS A WORKSHEET FOR QUICKLY ASSESSING WHETHER THE CAAPP APPLICATION IS ADMINISTRATIVELY AND TECHNICALLY COMPLETE.

4) FESOP REQUESTS SHOULD COMPLETE THIS FORM, MARKING SECTION FOUR APPROPRIATELY.

5) REFER TO CAAPP 200 INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE — SOURCE AND CONTACT INFORMATION

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM COMPLETED: 02/05/2010

3) SOURCE STREET ADDRESS: 1739 New Marigold Rd.

4) CITY: Marissa

5) ZIP: 62257

6) IS THE SOURCE LOCATED WITHIN CITY LIMITS? [ ] YES [X] NO

7) TOWNSHIP NAME: Lively Grove

8) COUNTY: Washington

9) TYPICAL NO. OF EMPLOYEES AT THE SOURCE: 537

10) ILLINOIS AIR POLLUTION SOURCE ID NO. (IF KNOWN): 189808AAB

11) FEDERAL EMPLOYER IDENTIFICATION NO. (FEIN): 26-0579880

12) TYPE OF SOURCE AND PRODUCTS PRODUCED: Electric Generating Station

RECEIVED
FEB 16 2010
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992 CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE _____

13) PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY:	14) PRIMARY SIC NO:
Electric, gas and sanitary services	4911

15a) LATITUDE (DD:MM:SS):	b) LONGITUDE (DD:MM:SS):

16a) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):
16	4239.9552	266.7153

17a) COORDINATE METHOD:	b) REFERENCE LOCATION:	c) COORDINATE ACCURACY:
UTM	Boiler Stack	0.500 seconds

18) SOURCE ENVIRONMENTAL CONTACT PERSON:	19a) CONTACT PERSON'S TELEPHONE NO:
Mark Shepherd	(618) 824-7677

19b) CONTACT PERSON'S E-MAIL ADDRESS:
mshepherd@psgc-llc.com

OWNER INFORMATION

20) NAME:
Prairie State Energy Campus Management Company

21) ADDRESS:
1739 New Marigold Rd.

22) CITY:	23) STATE:	24) ZIP:
Marissa	IL	62257

25) OWNER'S AGENT (IF APPLICABLE):

OPERATOR INFORMATION

26) NAME:
Prairie State Generating Company, LLC

27) ADDRESS:
1739 New Marigold Rd.

28) CITY:	29) STATE:	30) ZIP:
Marissa	IL	62257

BILLING INFORMATION

31) NAME:
Prairie State Generating Company, LLC Accounts Payable

32) ADDRESS:
P.O. Box 107

33) CITY:	34) STATE:	35) ZIP:
Marissa	IL	62257

36) CONTACT PERSON	37) CONTACT PERSON'S TELEPHONE NO.
David Grabe, Dir. of Finance and Administration	(618) 824-7699

38) CONTACT PERSON'S E-MAIL ADDRESS:
dgrabe@psgc-llc.com

APPLICANT INFORMATION

39) WHO IS THE PERMIT APPLICANT? (CHECK ONE):	☐ OWNER ☒ OPERATOR	40) ALL CORRESPONDENCE TO: (CHECK ONE)	☐ OWNER ☐ OPERATOR ☒ SOURCE

41) ATTENTION NAME AND/OR TITLE FOR WRITTEN CORRESPONDENCE:
Mark Shepherd, Dir. of Environmental, Health & Safety

42) TECHNICAL CONTACT PERSON FOR APPLICATION	43) CONTACT PERSON'S TELEPHONE NO.
Allison Lauf, Senior Environmental Specialist	(618) 824-7690

44) CONTACT PERSON'S E-MAIL ADDRESS:
alauf@psgc-llc.com

SECTION FOUR — PERMIT STATUS

WHY IS THE APPLICANT APPLYING FOR A CAAPP PERMIT?

1) THE POTENTIAL TO EMIT ONE OR MORE CRITERIA AIR POLLUTANT FOR THE SOURCE IS 100 TONS/YEAR OR GREATER? THE POTENTIAL TO EMIT HAZARDOUS AIR POLLUTANTS FOR THE SOURCE IS MORE THAN 10 TONS OF A SINGLE HAZARDOUS AIR POLLUTANT OR 25 TONS OF COMBINED HAZARDOUS AIR POLLUTANTS? CHECK ALL THAT APPLY.

☒ CARBON MONOXIDE (CO)	☒ NITROGEN OXIDES (NOx)
☒ PARTICULATE 10 MICROMETERS (PM10)	☒ PARTICULATE MATTER (PART)
☐ PARTICULATE 2.5 MICROMETERS (PM2.5)	☒ SULFUR DIOXIDE (SO2)
☒ VOLATILE ORGANIC MATERIAL (VOM)	☒ SINGLE HAZARDOUS AIR POLLUTANT
☒ COMBINED HAZARDOUS AIR POLLUTANT	☐ OTHER (SPECIFY): _____

		YES	NO
2	THE SOURCE IS AN AFFECTED SOURCE FOR ACID RAIN DEPOSITION.	☒	☐
3	THE POTENTIAL TO EMIT AN INDIVIDUAL HAZARDOUS AIR POLLUTANT IS 10 TONS/YEAR OR MORE OF ANY SINGLE HAZARDOUS AIR POLLUTANT.	☒	☐
4	THE POTENTIAL TO EMIT ALL SOURCE WIDE HAZARDOUS AIR POLLUTANTS IS 25 TONS/YEAR OR MORE OF COMBINED HAZARDOUS AIR POLLUTANTS.	☒	☐
5	THE POTENTIAL TO EMIT A HAZARDOUS AIR POLLUTANT IS MORE THAN AN APPLICABLE LOWER THRESHOLD.	☐	☒
6	THE SOURCE IS AN AFFECTED SOURCE FOR OZONE DEPLETING SUBSTANCES REGULATED UNDER TITLE 6 OF THE CLEAN AIR ACT.	☐	☒
7	THE SOURCE CONTAINS EQUIPMENT OR OPERATIONS SUBJECT TO CERTAIN USEPA EMISSION STANDARDS (NSPS AND NESHAP) FOR WHICH USEPA REQUIRES A CAAPP PERMIT.	☒	☐
8	ARE ACTUAL EMISSIONS OF THE SOURCE BELOW THE APPLICABILITY LEVELS FOR A CAAPP PERMIT?	☒	☐
9	DOES THE APPLICATION CONTAIN PROPOSED PERMIT LIMITATIONS THAT WILL CONSTRAIN THE EMISSIONS AND PRODUCTION OR OPERATION OF THE SOURCE SUCH THAT POTENTIAL EMISSIONS OF THE SOURCE WILL FALL BELOW THE LEVELS FOR WHICH A CAAPP PERMIT IS REQUIRED?	☐	☒
10	DOES THE APPLICANT HEREBY REQUEST A FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CONSTRAINING THE EMISSIONS AND PRODUCTION OR OPERATION OF THE SOURCE SUCH THAT POTENTIAL EMISSIONS WOULD FALL BELOW APPLICABILITY LEVELS AND THEREBY EXCLUDE THE SOURCE FROM REQUIRING A CAAPP PERMIT?	☐	☒

SECTION FIVE — SUMMARY OF APPLICATION CONTENT CHECKLIST

COMPLETE THE FOLLOWING TABLE, ANSWERING YES, NO, OR N/A AS APPROPRIATE. ANSWERING "NO" TO ANY OF THE BELOW, EXCEPT ITEM 33 OR 34, MAY RESULT IN THE ILLINOIS EPA REQUESTING ADDITIONAL INFORMATION, OR POSSIBLY DEEMING THE APPLICATION TO BE INCOMPLETE.

IF THE APPLICANT CHOOSES TO INCORPORATE BY REFERENCE DATA PREVIOUSLY SUBMITTED, SELECT THAT COLUMN APPROPRIATLY AND INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.

		INFORMATION PROVIDED			INCORPORATE BY REFERENCE
		YES	NO	N/A	
1)	DOES THE APPLICATION INCLUDE A TABLE OF CONTENTS?	☐	☐	☒	☐
2)	DOES THE APPLICATION INCLUDE A COMPLETE PROCESS DESCRIPTION FOR THE SOURCE?	☐	☐	☒	☐
3)	DOES THE APPLICATION INCLUDE A PLOT PLAN AND/OR MAP DEPICTING THE AREA WITHIN ONE-QUARTER MILE OF THE SOURCE?	☐	☐	☒	☐
4)	DOES THE APPLICATION INCLUDE A PROCESS FLOW DIAGRAM(S) SHOWING ALL EMISSION UNITS AND CONTROL EQUIPMENT, AND THEIR RELATIONSHIP?	☐	☐	☒	☐
5)	DOES THE APPLICATION INCLUDE THE APPROPRIATE, COMPLETED FORMS FOR ALL INDIVIDUAL EMSSION UNITS AND AIR POLLUTION CONTROL EQUIPMENT, LISTING ALL APPLICABLE REQUIREMENTS AND PROPOSED EXEMPTIONS FROM OTHERWISE APPLICABLE REQUIREMENTS?	☒	☐	☐	☐
6)	DOES THE APPLICATION INCLUDE CALCULATIONS TO THE EXTENT THEY ARE RELATED TO AIR EMISSIONS (E.G., FOR POLLUTANT EMISSION RATES, FUELS, RAW MATERIALS USAGE, OR CONTROL EQUIPMENT EFFICIENCY)?	☐	☐	☒	☐
7)	DOES THE APPLICATION INCLUDE A COMPLETED "LISTING OF SIGNIFICANT ACTIVITIES" FORM 299-CAAPP?	☐	☐	☒	☐
8)	DOES THE APPLICATION INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.	☐	☐	☒	☐
9)	DOES THE APPLICATION INCLUDE A COMPLETED "HAZARDOUS AIR POLLUTANT EMISSION SUMMARY" FORM 215-CAAPP?	☐	☐	☒	☐
10)	DOES THE APPLICATION INCLUDE A COMPLETED "FEE DETERMINATION FOR CAAPP PERMIT" FORM 292-CAAPP? (NOTE: ANNUAL FEES WILL BE BASED UPON INFORMATION CONTAINED IN THIS FORM.)	☒	☐	☐	☐
11)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT" FORM 293-CAAPP?	☒	☐	☐	☐
12)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE-ADDENDUM FOR NONCOMPLYING EMISSION UNITS" FORM 294-CAAPP FOR ONE OR MORE NONCOMPLIANT EMISSION UNITS FOR WHICH ISSUANCE OF A CAAPP PERMIT IS REQUESTED?	☐	☐	☒	☐
13)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE CERTIFICATION" FORM 296-CAAPP?	☒	☐	☐	☐
14)	DOES THE APPLICATION INCLUDE A COMPLETED "LISTING OF INSIGNIFICANT ACTIVITIES" FORM 297-CAAPP?	☐	☐	☒	☐
15)	DOES THE APPLICATION INCLUDE A COMPLETED "FUGITIVE EMISSION" FORM 391-CAAPP?	☐	☐	☒	☐
16)	DOES THE APPLICATION INCLUDE A COMPLIANCE ASSURANCE MONITORING PLAN (FORM 464-CAAPP) PURSUANT TO 40 CFR PART 64?	☐	☐	☒	☐
17)	HAS THE APPLICANT REGISTERED A RISK MANAGEMENT PROGRAM FOR ACCIDENTAL RELEASES PURSUANT TO SECTION 112(R) OF THE CLEAN AIR ACT AS AMENDED IN 1990 OR INTENDS TO COMPLY WITH THIS REQUIREMENT IN ACCORDANCE WITH ITS COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE?	☐	☐	☒	☐
18)	HAS THE APPLICANT SUBMITTED A FUGITIVE PARTICULATE MATTER OPERATING PROGRAM PURSUANT TO 35 IAC 212.309?	☐	☐	☒	☐
19)	HAS THE APPLICANT SUBMITTED A PM10 CONTINGENCY MEASURE PLAN PURSUANT TO 35 IAC 212.700?	☐	☐	☒	☐
20)	HAS THE APPLICANT SUBMITTED AN EPISODE ACTION PLAN PURSUANT TO 35 IAC 244.141 FOR THE FACILITIES FOR WHICH ACTION PLANS ARE REQUIRED (SEE 35 IAC 244.142)?	☐	☐	☒	☐
21a)	HAS THE APPLICANT SUBMIT A REQUEST FOR A PERMIT SHIELD FOR THE ENTIRE SOURCE?	☐	☐	☒	☐
21b)	IF NO, DOES THE APPLICATION CONTAIN A REQUEST FOR A PERMIT SHIELD FOR SPECIFIC ITEMS ONLY, IN ACCORDANCE WITH THE INSTRUCTIONS FOR A CAAPP PERMIT?	☐	☐	☐	☐
22)	IF THIS IS A RENEWAL APPLICATION, WAS THE APPLICATION SUBMITTED IN A TIMELY MANNER, I.E., NOT LATER THAN 9 MONTHS BEFORE THE EXPIRATION DATE OF THE EXISTING CAAPP PERMIT PURSUANT TO SECTION 39.5(5)(N) OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT AND 35 IAC 270.301(D).	☐	☐	☒	☐

SECTION FIVE SUMMARY OF APPLICATION CONTENT CHECKLIST - CONTINUED

COMPLETE THE FOLLOWING TABLE, ANSWERING YES, NO, OR N/A AS APPROPRIATE. ANSWERING "NO" TO ANY OF THE BELOW, EXCEPT ITEM 34 OR 35, MAY RESULT IN THE ILLINOIS EPA REQUESTING ADDITIONAL INFORMATION, OR POSSIBLY DEEMING THE APPLICATION TO BE INCOMPLETE.

IF THE APPLICANT CHOOSES TO INCORPORATE BY REFERENCE DATA PREVIOUSLY SUBMITTED, SELECT THAT COLUMN APPROPRIATLY AND INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.

		INFORMATION PROVIDED			INCORPORATE BY REFERENCE
		YES	NO	N/A	
23)	DOES THE APPLICATION INCLUDE AN EARLY REDUCTION DEMONSTRATION FOR HAZARDOUS AIR POLLUTANTS (HAP) PURSUANT TO SECTION 112(I)(5) OF THE CLEAN AIR ACT AS AMENDED IN 1990?	☐	☐	☒	☐
24)	DOES THE APPLICATION REQUEST TO UTILIZE THE OPERATIONAL FLEXIBILITY PROVISIONS AND INCLUDE THE INFORMATION REQUIRED FOR SUCH USE?	☐	☐	☒	☐
25)	DOES THE APPLICATION ADDRESS OTHER MODES OF OPERATION FOR WHICH A PERMIT IS BEING SOUGHT?	☐	☐	☒	☐
26)	DOES THE APPLICATION INCLUDE ALL REASONABLY ANTICIPATED OPERATING SCENARIOS FOR WHICH A PERMIT IS BEING SOUGHT?	☐	☐	☒	☐
27a)	DOES THE APPLICATION CONTAIN TRADE SECRET INFORMATION?	☐	☒	☐	☐
27b)	IF YES, HAS SUCH INFORMATION BEEN MARKED AND CLAIMED, AND TWO SEPARATE COPIES OF THE APPLICATION SUITABLE FOR PUBLIC INSPECTION BEEN SUBMITTED IN ACCORDANCE WITH APPLICABLE REGULATIONS?	☐	☐	☐	☐
28a)	DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A MALFUNCTION, CONSISTENT WITH 35 IAC 201.149?	☐	☐	☒	☐
28b)	DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A BREAKDOWN, CONSISTENT WITH 35 IAC 201.149?	☐	☐	☒	☐
28c)	DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A STARTUP, CONSISTENT WITH 35 IAC 201.149?	☐	☐	☒	☐
28d)	IF YES TO ANY OF 28a-c, DOES THE APPLICATION INCLUDE INFORMATION SPECIFIED IN 35 IAC 201.261 (CONTENTS OF REQUEST FOR PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR STARTUP)?	☐	☐	☐	☐
29)	DOES THE APPLICATION INCLUDE A PROPOSED DETERMINATION OF MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) FOR HAZARDOUS AIR POLLUTANTS PURSUANT TO SECTION 112(G) OR (J) OF THE CLEAN AIR ACT AS AMENDED IN 1990?	☐	☐	☒	☐
30)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 60 NEW SOURCE PERFORMANCE STANDARD (NSPS)?	☐	☐	☒	☐
32)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 61 NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP)?	☐	☐	☒	☐
33)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 63 NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES?	☐	☐	☒	☐
34)	HAS THE APPLICANT RETAINED A COPY OF THIS APPLICATION AT THE SOURCE? (NOTE: IF TRADE SECRET INFORMATION IS NOT BEING SUBMITTED, THEN ONLY THE ORIGINAL APPLICATION NEED BE INITIALLY SUBMITTED, HOWEVER, THE ILLINOIS EPA MAY REQUEST UP TO 4 COPIES OF THE FINAL APPLICATION PRIOR TO PUBLIC NOTICE.)	☒	☐	☐	☐
35)	DOES THE APPLICATION INCLUDE AN ELECTRONIC FILE OF THE APPLICATION (E.G., CD, DVD, ETC.)?	☐	☒	☐	☐

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: 

AUTHORIZED SIGNATURE

President and CEO

TITLE OF SIGNATORY

Peter DeQuattro

TYPED OR PRINTED NAME OF SIGNATORY

02 / 11 / 2010

DATE

APPLICATION PAGE _____

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

REQUEST FOR OWNERSHIP CHANGE FOR CAAPP PERMIT

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

NOTE THIS FORM SHALL ONLY BE USED TO REQUEST AN AMENDMENT OF A CAAPP PERMIT TO REFLECT A CHANGE IN OWNERSHIP OR OPERATIONAL CONTROL OF A SOURCE. PROVIDE ONLY THE NEW INFORMATION FOR THE SOURCE, OWNER, OPERATOR, AND/OR BILLING IN THE SPACES PROVIDED BELOW, AS IT APPLIES.

GENERAL INFORMATION

1a) ID NUMBER:	b) CAAPP PERMIT NUMBER:
189808AAB	01100065

2) EXISTING SOURCE NAME ON CAAPP PERMIT: Prairie State Generating Station

3) DATE FORM PREPARED: 02/05/2010

NEW SOURCE INFORMATION

4) SOURCE NAME:

5) FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEIN): 26-0579880

6) SOURCE ENVIRONMENTAL CONTACT PERSON: Allison Lauf

7) CONTACT PERSON'S TELEPHONE NUMBER: (618) 824-7690

NEW OWNER INFORMATION

8) OWNER NAME:

9) ADDRESS: 1739 New Marigold Rd.

10) CITY: Marissa	11) STATE: IL	12) ZIP: 62257

13) OWNER'S AGENT (IF APPLICABLE):

NEW OPERATOR INFORMATION

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992 CHAPTER 111 1/2, PAR. 1039 5 DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

APPLICATION PAGE _____

14) OPERATOR NAME:		
15) ADDRESS: 1739 New Marigold Rd.		
16) CITY: Marissa	17) STATE: IL	18) ZIP: 62257

NEW BILLING INFORMATION

19) NAME: Praire State Generating Company, LLC Accounts Payable		
20) ADDRESS: P.O. Box 107		
21) CITY: Marissa	22) STATE: IL	23) ZIP: 62257
24) CONTACT PERSON: David Grabe, Director of Finance and Administration		
25) CONTACT PERSON'S TELEPHONE NUMBER: (618) 824-7699		

NEW APPLICANT INFORMATION

26) WHO IS THE NEW PERMITTEE? (CHECK ONE): ☐ OWNER ☒ OPERATOR

27) ALL CORRESPONDENCE SENT TO: ☐ OWNER ☐ OPERATOR ☒ SOURCE

28) ATTENTION NAME AND/OR TITLE FOR WRITTEN CORRESPONDENCE: Mark Shepherd, Director of Environmental, Health & Safety

29) TECHNICAL CONTACT FOR APPLICATION SUBMITTAL: Allison Lauf, Senior Environmental Specialist

30) TECHNICAL CONTACT PERSON'S TELEPHONE NUMBER: (618) 824-7690

31a) FOR A CHANGE OF OWNERSHIP, ATTACH A COPY OF THE SIGNED, WRITTEN AGREEMENT CONTAINING A SPECIFIC DATE FOR TRANSFER OF PERMIT RESPONSIBILITY, COVERAGE, AND LIABILITY BETWEEN THE CURRENT AND NEW PERMITTEE. ATTACH AND LABEL AS EXHIBIT 272-1.

b) PROVIDE THE SPECIFIC DATE FOR TRANSFER (MONTH/DAY/YEAR): _____ / _____ / _____

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED INCOMPLETE.

32) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY:  President and CEO

AUTHORIZED SIGNATURE — TITLE OF SIGNATORY

Peter DeQuattro — 02 / 11 / 2010

TYPED OR PRINTED NAME OF SIGNATORY — DATE

Note: The Illinois EPA may DENY the transfer of a permit(s) if any air pollution site fee owed by the applicant has not been paid within 60 days of the due date.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

R0041

FEE DETERMINATION FOR CAAPP SOURCE	FOR AGENCY USE ONLY
	ID NO.:
	PERMIT NO.:
	DATE:

SECTION ONE	SOURCE INFORMATION
1) SOURCE NAME: Prairie State Generating Station	
2) SOURCE ID NO.: 189808AAB	3) DATE FORM PREPARED: 01 / 28 / 2010

SECTION TWO	INSTRUCTIONS IN BRIEF
1)	COMPLETE THIS FORM TO DETERMINE THE PERMIT FEE ESTABLISHED BY THE CAAPP PERMIT.
2)	THE EMISSION LEVELS STATED IN SECTION FOUR, WHICH ARE ONLY USED FOR THE PURPOSE OF PERMIT FEE DETERMINATION, WILL BECOME PERMIT SPECIAL CONDITIONS IN THE CAAPP PERMIT.
3)	THE ILLINOIS EPA DOES NOT REQUIRE PAYMENT WITH THIS APPLICATION. WHEN YOU ARE BILLED MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS AT THE TOP OF THIS FORM. **DO NOT SEND CASH**. ON THE CHECK MEMO LINE, PLEASE LIST "CAAPP OPERATING PERMIT FEE: ID NO. XXXXXXXXX", REPLACE THE Xs WITH YOUR SOURCE ID NUMBER.

SECTION THREE — FEE RATIONALE

1) WHAT IS THE PERMIT STATUS AT THE TIME OF THIS REQUEST? CHECK ONLY ONE BELOW.

☐ INITIAL CAAPP PERMIT ☐ RENEWAL CAAPP PERMIT ☐ FESOP INITIAL/RENEWAL
☐ SIGNIFICANT MODIFICATION ☐ MINOR MODIFICATION ☒ ADMINISTRATIVE AMENDMENT

2) COMPLETE THE BELOW TABLE FOR A NON-INITIAL CAAPP PERMIT. IF THERE IS AN INCREASE/DECREASE IN EMISSIONS, ENTER THE NUMBER(S) FOR THE EMISSIONS CHANGE RATIONALE AS APPROPRIATE.

POLLUTANT	INCREASE	DECREASE	NO CHANGE	EMISSIONS CHANGE RATIONALE(S)		
NITROGEN OXIDES (NO_X)	☐	☐	☒			
PARTICULATE MATTER (PART)	☐	☐	☒			
SULFUR DIOXIDE (SO_2)	☐	☐	☒			
VOLATILE ORGANIC MATERIAL (VOM)	☐	☐	☒			
OTHER (SPECIFY)	☐	☐	☒			
OTHER (SPECIFY)	☐	☐	☒			

CHANGE RATIONALE:

1 BUSINESS DECISION (E.G., OPERATING NEEDS, BANKRUPTCY, ETC.).
2 REMOVAL OR ADDITION OF PROCESSES AT THE SOURCE.
3 INCLUSION OR REMOVAL OF A CONTROL DEVICE.
4 CHEMICAL REFORMULATION (E.G., REFORMULATING A COATING FROM HIGH VOM TO A LOW VOM)
5 FUEL SWITCHING (E.G., COAL TO NATURAL GAS, ETC.).
6 METHODOLOGY CHANGE (E.G., SWITCHING A PETROLEUM SOLVENT TO AQUEOUS SOLUTION)
7 CHANGES IN METHOD USED FOR CALCULATIONS (E.G., EMISSION FACTOR CHANGE).
8 OTHER (DESCRIBE): _____
9 OTHER (DESCRIBE): _____

RECEIVED
FEB 16 2010
Illinois Environmental Protection Ag
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 1

SECTION FOUR — FEE DATA

1) WILL THE SOURCE PAY THE CURRENT MAXIMUM FEE OF $250,000.00 PER YEAR?

IF YES, THE REMAINDER OF THIS FORM DOES NOT NEED TO BE COMPLETED.

☐ YES

☒ NO

2) EMISSION UNIT [A]	NITROGEN OXIDES (NO_X) (TONS/YR)	PARTICULATE MATTER (PART) (TONS/YR)	SULFUR DIOXIDE (SO_2) (TONS/YR)	VOLATILE ORGANIC MATERIAL (VOM) (TONS/YR)	OTHER [B] SPECIFY _____ (TONS/YR)
EP104		0.004			
EP118A		0.076			
3) SUBTOTAL		0.08			
4) FUGITIVE					
5) TOTAL		0.08			

6) GRAND TOTAL ACROSS POLLUTANTS (TONS/YR):	0.08
7) CALCULATED PERMIT FEE: IF GRAND TOTAL IN ITEM 6 ABOVE IS > 100 TONS/YR THEN MULTIPLY GRAND TOTAL BY $18.00 AND ENTER, OTHERWISE ENTER $1,800.00:	$1,800
8) MINIMUM PERMIT FEE IS $1,800.00 PER YEAR. MAXIMUM PERMIT FEE IS $250,000.00 PER YEAR. IF THE CALCULATED PERMIT FEE IN ITEM 7 ABOVE IS BETWEEN THESE TWO FEE AMOUNTS THEN ENTER HERE, OTHERWISE ENTER THE MINIMUM OR MAXIMUM PERMIT FEE, WHICHEVER IS APPLICABLE. THIS IS THE ACTUAL ANNUAL PERMIT FEE:	$1,800

A EMISSION UNIT - PROVIDE THE NAME AND FLOW DIAGRAM DESIGNATION OF THE EMISSION UNIT AS IT APPEARS ON THE DATA AND INFORMATION FORM.

B OTHER - ANY HAZARDOUS AIR POLLUTANT (HAP) NOT INCLUDED ELSEWHERE, E.G., CHLORINE, HCl, ETC.

DOCUMENT 5

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

RECEIVED
MAY 05 2011
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ~ new ~ revised ~ for Acid Rain permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

PRAIRIE STATE GENERATING STATION Facility (Source) Name	ILLINOIS State	55856 Plant Code

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
UNIT 1	Yes
UNIT 2	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

Permit Requirements

STEP 3

Read the standard requirements.

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Recordkeeping and Reporting Requirements, Cont'd.

STEP 3, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

STEP 4
Read the certification statement, sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

PETER DEQUATTRO Name	
Signature 	Date 5/5/2011

Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

R0049

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

Page 1 of 2

This submission is: [X] New [ ] Revised

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STATE OF ILLINOIS

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

PRAIRIE STATE GENERATING STATION	IL	55856
Plant Name	State	ORIS Code

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	ID# UNIT 1 Type DBW	ID# UNIT 2 Type DBW	ID# Type	ID# Type	ID# Type	ID# Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)						
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)						
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	X	X				
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)						
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						
(j) NO_x Averaging Plan (include NO_x Averaging form)						
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)						

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STEP 2, cont'd.

	ID# UNIT 1 Type DBW	ID# UNIT 2 Type DBW	ID# Type	ID# Type	ID# Type	ID# Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name PETER DEQUATTRO, PRESIDENT AND CEO	
Signature	Date 5/5/2011

DOCUMENT 6

PRAIRIE STATE Energy Campus

PRAIRIE STATE GENERATING COMPANY, LLC
1739 New Marigold Road
Marissa, IL 62257

May 5, 2011

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Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

Mr. Michael Reed
Illinois Environmental Protection Agency
Division of Air Pollution Control
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Subject: **Submittal of Title V (CAAPP) Permit Application**
Facility ID: 189808AAB

Dear Mr. Reed:

Pursuant to direction from the Illinois Environmental Protection Agency, Prairie State Generating Company, LLC (PSGC) is submitting the enclosed Title V (CAAPP) permit application for Prairie State Generating Station in Marissa, Illinois. This application amends the CAAPP applications submitted on January 28, 2010, January 28, 2008, and October 11, 2002.

Also enclosed is PSGC's renewal Acid Rain permit application and Phase II NOx Compliance Plan. The current Acid Rain permit will expire on December 31, 2011.

Please be aware that most of the permitted emission units at the source are presently under construction and have not commenced operation.

For questions regarding this application, please contact Allison Lauf at (618) 824-7690.

Sincerely,

IEPA-DIVISION OF RECORDS MANAGEMENT
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Peter DeQuattro
President and CEO

F:\EH&S2010\Environmental\Power Plant (PP)\Program Air Permitting & Compliance\Program Permits & Applications\CAAPP Application\4-2011\Final Application\Title V Application Submittal to IEPA 5-5-11.docx

Enclosures:

- Title V (CAAPP) Application
- Acid Rain Renewal Permit Application
- Phase II NOx Compliance Plan

cc: IEPA, Bureau of Air, Compliance and Enforcement Section (#40) – Springfield, IL
IEPA, Air Regional Field Office, Division of Air Pollution Control – Collinsville, IL

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
AMENDED APPLICATION
PRAIRIE STATE GENERATING COMPANY

Prepared by:

TRINITY CONSULTANTS
1795 Clarkson Road
Suite 210
(636) 530-4600

May 2011

Project 112601.0011

USEPA-DIVISION OF RECORDS MANAGEMENT
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PRAIRIE STATE Generating Company

Trinity Consultants

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1.1 PROJECT DESCRIPTION

Prairie State Generating Company, LLC (PSGC) operates an electrical power generation facility in Marissa, Illinois. Prairie State Energy Campus Management Corporation, LLC is the parent company of PSGC, which operates Prairie State Generating Station (PSGS). PSGC's generating station consists of a coal mine, two coal-fired steam generators, one natural gas-fired auxiliary boiler, two cooling towers, and other ancillary activities. PSGC was issued a Prevention of Significant Deterioration (PSD) permit on April 28, 2005. This document contains the Clean Air Act Permit Program (CAAPP) permit application for PSGS.

The facility is located in Washington County, which is designated as attainment for all criteria air pollutants per 40 CFR 81.314. PSGC holds additional contiguous property in St. Clair County; however, none of the facility emission sources are located outside Washington County. The facility is designated as a major source of sulfur dioxide (SO_2), carbon monoxide (CO), nitrogen oxides (NO_X), volatile organic material (VOM), particulate matter (PM), Hazardous Air Pollutants (HAPs), and Greenhouse Gases (GHGs) with respect to Title 40 of the Code of Federal Regulations (CFR), Part 70 implemented under the Illinois Environmental Protection Agency's (IEPA's) CAAPP. In accordance with 35 IAC Part 270, a CAAPP permit is required based on the facility's status as a major source.

1.2 FACILITY DESCRIPTION

PSGS is PSGC's mine-mouth, coal-fired steam electric generating station with a nominal capacity of 1,600 megawatts (MWe). The facility consists of an underground coal mine and power plant. The main generating units comprising PSGS are coal-fired steam generators referred to as Unit 1 (Boiler 1) and Unit 2 (Boiler 2). Additional CAAPP-significant emissions units at PSGS include a natural gas-fired auxiliary boiler, cooling towers, haul roads, material transfer points (including transfer points at the coal mine), and storage silos. The processes associated with the aforementioned emissions units and other insignificant activities located at PSGS are described in the subsequent paragraphs. Additionally, a comprehensive activity/equipment list is included in Table 1-1.

1.2.1 UNIT 1 AND UNIT 2 BOILERS

Units 1 and 2 are two identical pulverized coal boilers equipped with low NO_X burners, selective catalytic reduction (SCR), dry electrostatic precipitators (DESPs), wet flue gas desulfurization (WFGD) and wet electrostatic precipitators (WESPs). The boilers, which each have a maximum rated capacity of approximately 7,450 million British thermal units per hour (MMBtu/hour), are fired on coal as their primary fuel, with natural gas used as the startup fuel. The boilers are designed for raw Illinois No. 6 coal from a new underground mine adjacent to the power plant. The design coal supply nominally has 4.0 percent sulfur by weight and 8,780 Btu per pound as received at the power plant facility, following routine preparation to separate rock from the coal fuel. Pursuant to the issued PSD permit,

the boilers are also allowed to use washed Illinois No. 6 coal and Illinois No. 5 coal from other mines.

Heat produced in the boiler converts water to high-pressure steam in the boiler. Steam is forced through the turbine, causing the turbine blades and shaft to rotate. The turbine shaft turns the attached generator shaft, which produces electricity.

Air emissions from Units 1 and 2 result from combustion of fuel within the boiler. Combustion emissions include NO_X, CO, PM, VOM, SO_2, sulfuric acid (H_2SO_4) mist, various HAPs, and GHG. The emissions generated from the boilers are controlled before entering the atmosphere via the Unit 1 stack (EP10A) or the Unit 2 stack (EP10B). The various methods of control include low NO_X burner technology, SCR, hydrated lime (HL) and powder activated carbon (PAC) injection, DESP, WFGD, and WESP. These control technologies are detailed below.

1.2.1.1 Low NO_X Burners

Units 1 and 2 are equipped with low NO_X burners (EC10A&B-1) installed to reduce the amount of NO_X emitted as compared to conventional boiler burners.

1.2.1.2 Selective Catalytic Reduction

The SCR (EC10A&B-2) is designed to remove NO_X from the flue gas stream exiting the furnace by the introduction of anhydrous ammonia through an injection grid located in the gas path. NOx in the flue gas is reduced to molecular nitrogen and water vapor as flue gas and ammonia pass over the SCR catalyst chamber.

1.2.1.3 Hydrated Lime Injection

Hydrated lime (EC10A&B-3) will be pneumatically injected as needed into the flue gas ductwork upstream of the DESP. HL acts as a sorbent to control emission of sulfur trioxide (SO3), whereby SO3 is bound as a calcium precipitate and removed in the DESP.

HL is delivered to the site by self-unloading pneumatic trucks. The HL is blown into the storage silos (EU15A1 through EU15A4). The transport air has some HL particles entrained in it; therefore, the conveying air is vented through a silo bin vent filter (EC15A1 through EC15A4) prior to discharge to the atmosphere.

Additionally, fugitive emissions can be emitted from the HL storage silo relief vent during a malfunction/breakdown of the injection system due to backpressure caused by plugged lances.

1.2.1.4 PAC INJECTION

PSGS is required to meet a mercury emission limit of 0.0080 lb Hg/GWh gross electrical output or to reduce mercury emissions by 90% from input mercury. PSGS will inject PAC (EC10A&B-4) into the flue gas of Units 1 and 2 as needed in order to provide effective adsorption of mercury from the flue gas onto the surface of the PAC. The Units 1 and 2 Activated Carbon Injection (ACI) systems pneumatically inject PAC into the flue gas ductwork upstream of the Units 1 and 2 DESPs. There, the PAC mixes with the flue gas and mercury is adsorbed on the surface of the PAC particle. The PAC particles, with mercury, are then captured by the ESPs.

PAC is delivered to the site by self-unloading pneumatic trucks and is blown into the storage silos (EU15B1 and EU15B2). The transport air has some PAC particles entrained in it; therefore, the conveying air is vented through a silo bin vent filter (EC15B1 and EC15B2) prior to discharge to the atmosphere.

Additionally, fugitive emissions can be emitted from the PAC storage silo relief vent during a malfunction/breakdown of the injection system due to backpressure caused by plugged lances.

1.2.1.5 DRY ELECTROSTATIC PRECIPITATORS

The flue gas flows through two Unit 1 DESPs (EC10A-5a and EC10A-5b) and two Unit 2 DESPs (EC10B-5a and EC10B-5b) to remove PM using electrical forces to move particles entrained in the flue gas onto the collection surfaces. The particulate matter is removed from the collectors by rapping. The four DESPs are each equipped with ash hoppers to accumulate the materials from the collectors.

1.2.1.6 WET FLUE GAS DESULFURIZATION

The flue gas flows through the WFGD units (EC10A-6 and EC10B-6) to remove SO2. Limestone slurry is injected into the flue gas. The SO2 dissolves into the slurry and reacts with the limestone to form solid calcium sulfate. The wet effluent is sent to the on-site waste water treatment facility.

1.2.1.7 WET ELECTROSTATIC PRECIPITATORS

The flue gas flows through one Unit 1 WESP (EC10A-7a) and one Unit 2 WESP (EC10B-7b) to remove PM using electrical forces to move particles entrained in the flue gas onto the collection surfaces. The collectors are washed by water spray. The wet effluent is sent to the on-site waste water treatment facility.

1.2.2 AUXILIARY STEAM BOILER

PSGS's auxiliary boiler provides heat and steam for the plant and is not used to directly generate electricity. The auxiliary boiler has a rated maximum heat input capacity of 245 MMBtu/hr and is fired exclusively with natural gas. Regulated air emissions from the auxiliary boiler include NO_X, CO, PM, VOM, SO_2, and various HAPs. The NO_X emissions from the boiler are controlled through the use of low NO_X burners (EC67).

1.2.3 COOLING TOWERS

Units 1 and 2 cooling towers each consist of 24 cooling tower cells to provide cool water from the various ancillary needs throughout PSGS's power plant. The water is treated with chemicals before use in the process water system and the cooling towers. The regulated air emission from the cooling towers is PM. Mist from the cooling towers is controlled using drift eliminators.

1.2.4 MATERIAL HANDLING AND PROCESSING

Material handling at PSGS is comprised of the following material handling systems:

- Coal,
- Limestone,
- Fly Ash,
- PAC,
- HL, and
- Water treatment chemicals (soda ash and lime).

Material processing at PSGS includes the coal crushing and limestone crushing operations. PM is the only pollutant generated from the material handling and processing systems. The majority of the emissions from the material handling and processing operations are controlled by various baghouses, fogging systems, or bin vent filters as well as fugitive dust control measures. Limestone processing is considered a zero emission process as the grinding mill employs wet crushing of the limestone in a slurry before use by the WFGD Units. Details of the material flow as well as the control system used for each step in the handling process are included in the process flow diagrams (PFDs) in Section 2.

1.2.5 MATERIAL STORAGE

The majority of storage tanks at PSGS are considered CAAPP-insignificant sources as identified in Section 1.2.5 of this application. However, PSGS has one 1,000 gallon gasoline storage tank (LG-1A) that is used to fuel vehicles on-site. This tank does not meet any of the exemptions listed in 35 IAC 201.210 and is, therefore, classified as a significant emission unit. VOM and HAP emissions are generated from the gasoline tank as a result of loading losses during tank filling. Please note the fueling of vehicles from the gasoline storage tank qualifies as an insignificant activity (gasoline dispensing facility), as specified in Table 1-1 below.

1.2.6 OTHER INSIGNIFICANT ACTIVITIES

Table 1-1 contains a list of equipment located at PSGS. Those units which qualify for an exemption under IAC 201.210 are listed in the table and include the specific exemption for which they qualify in the right-hand column of the table.

Table 1-1. LIST OF ACTIVITIES

Sources	Emission Unit Unique Identifier	Pollution Control Unique Identifier	Emission Vent/Stack Unique Identifier	Material Used or Transferred	Type of Emissions	Insignificant Rule Exemption
Fuel Combustion Sources						
Boiler 1 - Coal	EU10A	EC10A-1,2,3,4,5,6,7	EP10A	Coal	PM,SO_2,NO_X,CO,VOM,LEAD,H_2SO_4 Mist,Hg, HAP	
Boiler 2 - Coal	EU10B	EC10B-1,2,3,4,5,6,7	EP10B	Coal	PM,SO_2,NO_X,CO,VOM,LEAD,H_2SO_4 Mist,Hg, HAP	
Auxiliary Boiler - Natural Gas 245 MMBtu/hr	EU67			Natural Gas	PM,SO_2,NO_X,CO,VOM,HAP	
Emergency Fire Pump Diesel Engine - 420 bhp	EU26A		EP26A	Diesel	PM,SO_2,NO_X,CO,VOM,LEAD,HAP	201 210(a)(16)
Diesel Emergency Backup Generator - 1,356 bhp	EU26C		EP26C	Diesel	PM,SO_2,NO_X,CO,VOM,LEAD,HAP	201 210(a)(16)
Direct Combustion Comfort Heating Units	TBD		TBD	Natural Gas	PM,SO_2,NO_X,CO,VOM,HAP	201 210(a)(4)
Cooling Towers						
Cooling Tower 1 (Cells A through X)	CT01		CT01		PM	
Cooling Tower 2 (Cells A through X)	CT02		CT02		PM	
Coal Handling Systems						
Transfer Point (Conveyor from MC-1 to MC-2)	EU104	EC104	EP104	Coal	PM	
Transfer Point (Conveyor from MC-2 to 6,000 Ton Surge Pile)	EU118A	EC118A	EP118A	Coal	PM	
Transfer Point (Conveyor from MC-3 to Screening Facility, MC-4 to Screening Facility, Screening Facility to MC-8, Screening Facility to Rotary Breaker, Rotary Breaker to MC-7, and Rotary Breaker to Reject C-6)	EU105	EC105	EP105	Coal and Reject Coal	PM	
Transfer Point (Conveyor from Reject C-6 to Refuse Bin and Refuse Bin to Truck)	EU107	EC108	EP109	Reject Coal	PM	
Transfer Point (Conveyor from MC-7 to 30,000 Ton Pile 1)	EU102A	EC102A	EP102A	Coal	PM	
Transfer Point (Conveyor from MC-8 to 50,000 Ton Pile 2 and MC-8 to MC-9)	EU102B	EC102B	EP102B	Coal	PM	
Transfer Point (Conveyor from MC-9 to 50,000 Ton Pile 3)	EU102C	EC102C	EP102C	Coal	PM	
Transfer Point (Conveyor from M-11 to C-1)	EU16B	EC16B	EP16B	Coal	PM	
Transfer Point (Conveyor from C-1 to C-2)	EU44/45	EC44/45	EP44/45	Coal	PM	
Transfer Point (Conveyor from C-2 to C-3 and C-2 to Coal Pile B)	EU49	EC49	EP49	Coal	PM	
Transfer Point (Conveyor from C-3 to Coal Pile A)	EU48	EC48	EP48	Coal	PM	
Transfer Point (Conveyor from Coal Piles A/B to the Stamler Feeder)	EU41B1	EC41B1	EP41B1	Coal	PM	
Transfer Point (Conveyor from Stamler Feeder to C-4A)	EU41B2	EC41B2	EP41B2	Coal	PM	
Transfer Point (Conveyor from C-1 to Surge Bin, C-4A to Surge Bin, C-4B to Surge Bin, Surge Bin to Belt Feeder A, Surge Bin to Belt Feeder B, Belt Feeder A to Screen A, Belt Feeder B to Screen B, Screen A to Crusher 1, Screen B to Crusher 2, Screen A to C-5A, Screen B to C-5B, Crusher 1 to C-5A, and Crusher 2	EU44/45/16B	EC44/45/16B	EP44/45/16B	Coal	PM	
Transfer Point (Conveyor from C-5A to C-6A, C-5B to C-6B, C-6A to Unit 1, and C-6B to Unit 1)	EU1/50B	EC1/50B	EP1/50B	Coal	PM	
Transfer Point (Conveyor from C-6A to Unit 2 and C-6B to Unit 2)	EU2	EC2	EP2	Coal	PM	
Coal Processing						
Crusher 1	EU44/45	EC44/45	EP44/45	Coal	PM	
Crusher 2	EU44/45	EC44/45	EP44/45	Coal	PM	
Limestone Handling Systems						
Limestone Prep Transfer Point (Conveyor from Diverter Gate A to Limestone Day Bin A and Diverter Gate B to Limestone Day	EU75A	EC75A	EP75A	Limestone	PM	
Limestone Prep Transfer Point (Conveyor from Diverter Gate A to Limestone Day Bin B and Diverter Gate B to Limestone Day	EU75B	EC75B	EP75B	Limestone	PM	
Transfer Point (Conveyor from Rail Car to Unloading Hopper)	EU17	EC17	EP17	Limestone	PM	
Transfer Point (Conveyor from LS-1 to Limestone Storage Pile)	EU58	EC58	EP58	Limestone	PM	
PAC and HL Silos						
Hydrated Lime Silos	EU15A	EC15A	EP15A	Hydrated Lime	PM	
Powder Activated Carbon Silos	EU15B	EC15B	EP15B	Powder Activated Carbon	PM	
Water Treatment Chemicals						
Soda Ash Silo	EU138A	EC138A	EP138A	Soda Ash	PM	

Sources	Emission Unit Unique Identifier	Pollution Control Unique Identifier	Emission Vent/Stack Unique Identifier	Material Used or Transferred	Type of Emissions	Insignificant Rule Exemption
Quick Lime Silo	EU138B	EC138B	EP138B	Lime	PM	
Ash Storage Silos						
Unit 1 to Unit 1 Fly Ash Storage Silos	EU14A	EC14A	EP14A	Fly Ash	PM	
Unit 2 to Unit 2 Fly Ash Storage Silos	EU14B	EC14B	EP14B	Fly Ash	PM	
Storage Tanks						
Unleaded Gasoline (1,000 Gal)	LG-1A		LG-1A	Gasoline	VOM	
#1 Diesel (1,500 Gal)	LG-1B		LG-1B	#1 Diesel	VOM	201.210(a)(11)
#2 Diesel (2,500 Gal)	LG-2		LG-2	#2 Diesel	VOM	201.210(a)(11)
#2 Diesel (550 Gal) [Emergency Fire Pump Diesel Engine]	LG-7		LG-7	#2 Diesel	VOM	201.210(a)(11)
#2 Diesel (10,859 Gal) [Diesel Emergency Backup Generator]	LG-8		LG-8	#2 Diesel	VOM	201.210(a)(11)
Lubricating Oil Tanks	TBD		TBD	Lubricating Oil	VOM	201.210(a)(11)
Fugitive Sources						
Haul Roads						
Limestone Hauling	TRUCK1	TRUCK1		Limestone	PM	
Fly Ash Hauling	TRUCK2	TRUCK2		Fly Ash	PM	
Bottom Ash Hauling	TRUCK3	TRUCK3		Bottom Ash	PM	
FGD Hauling	TRUCK4	TRUCK4		FGD	PM	
PAC Hauling Route 1	TRUCK5A	TRUCK5A		PAC - Rt 1	PM	
PAC Hauling Route 2	TRUCK5B	TRUCK5B		PAC - Rt 2	PM	
HL Hauling Route 1	TRUCK6A	TRUCK6A		Hydrated Lime - Rt 1	PM	
HL Hauling Route 2	TRUCK6B	TRUCK6B		Hydrated Lime - Rt 2	PM	
Breaker Reject Hauling	TRUCK7	TRUCK7		Breaker Reject	PM	
Soda Ash Hauling	TRUCK8	TRUCK8		Soda Ash	PM	
Quick Lime Hauling	TRUCK9	TRUCK9		Quick Lime	PM	
Limestone Rock Dust Hauling	TRUCK10	TRUCK10		Rock Dust	PM	
Chemicals at Turbine Building Hauling	TRUCK11	TRUCK11		Chemicals for Turbine Building	PM	
Chemicals at Cooling Tower Hauling	TRUCK12	TRUCK12		Chemicals for Cooling Towers	PM	
Chemicals at Water Treatment Area Hauling	TRUCK13	TRUCK13		Chemicals for Water Treatment Area	PM	
Chemicals at Raw Water Sludge Hauling	TRUCK14	TRUCK14		Raw Water Sludge	PM	
Chemicals at FGD Area Hauling	TRUCK15	TRUCK15		Chemicals for FGD Area	PM	
Chemicals at Water Treatment Area to FGD Waste Hauling	TRUCK16	TRUCK16		Fluoride Removal Sludge	PM	
Material Storage						
Active Coal Pile A	EU40A	EC40A	EP40A	Coal	PM	
Active Coal Pile B	EU40B	EC40B	EP40B	Coal	PM	
Inactive Coal Pile	EU40C	EC40C	EP40C	Coal	PM	
Covered Limestone Pile	EU58P	EC58	EP58	Limestone	PM	
Inactive Limestone Pile	EU62	EC62	EP62	Limestone	PM	
Coal Storage Pile A	EU103A	EC103A	EP103A	Coal	PM	
Coal Storage Pile B	EU103B	EC103B	EP103B	Coal	PM	
Coal Storage Pile C	EU103C	EC103C	EP103C	Coal	PM	
Coal Surge Pile	EU118	EC118	EP118	Coal	PM	
Loaders/Dozers						
Front End Loaders	EU40C,62		EP40C,62	Coal, Limestone	PM	
Bulldozers	EU40A,40B,40C, 103A,103B,103C,118,58,62		EP40A,40B,40C, 103A,103B,103C,118,58,62	Coal, Limestone	PM	

1.2.7 Existing Air Pollution Permits

- 01100065 – PSD construction permit, issued April 28, 2005
- 08010051 – State Construction Permit for PAC and HL Injection Systems, issued July 24, 2008
- Acid Rain Program Permit, issued April 28, 2005

1.3 Permit Shield Request

Pursuant to Section 39.5(7)(j) of the Act, PSGC is requesting a permit shield. This permit shield provides that compliance with the conditions of the permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for PSGS is issued, provided that either the applicable requirements are specifically identified within the issued permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to PSGS and this determination (or a concise summary thereof) will be included in the issued permit.

2. AREA MAP/PLOT PLAN/PROCESS FLOW DIAGRAMS

This section of the permit application includes an area map of PSGS, plot plans of the power plant and the mine as well as process flow diagrams (PFD) for emission units at the facility.

R0067





Kodak
Color Patch Card

FIGURE 2-1. PSGS AREA MAP



R0069







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Color Patch Card

Agency ID: 170000155542 Media File Type: AIR
Bureau ID: 189808AAB
Site Name: Prairie State Generating Station
Site Address1: 3872 County Hwy 12
Site Address2:
Site City: Marissa State: IL Zip: 62257-

This record has been determined to be partially or wholly exempt from public disclosure

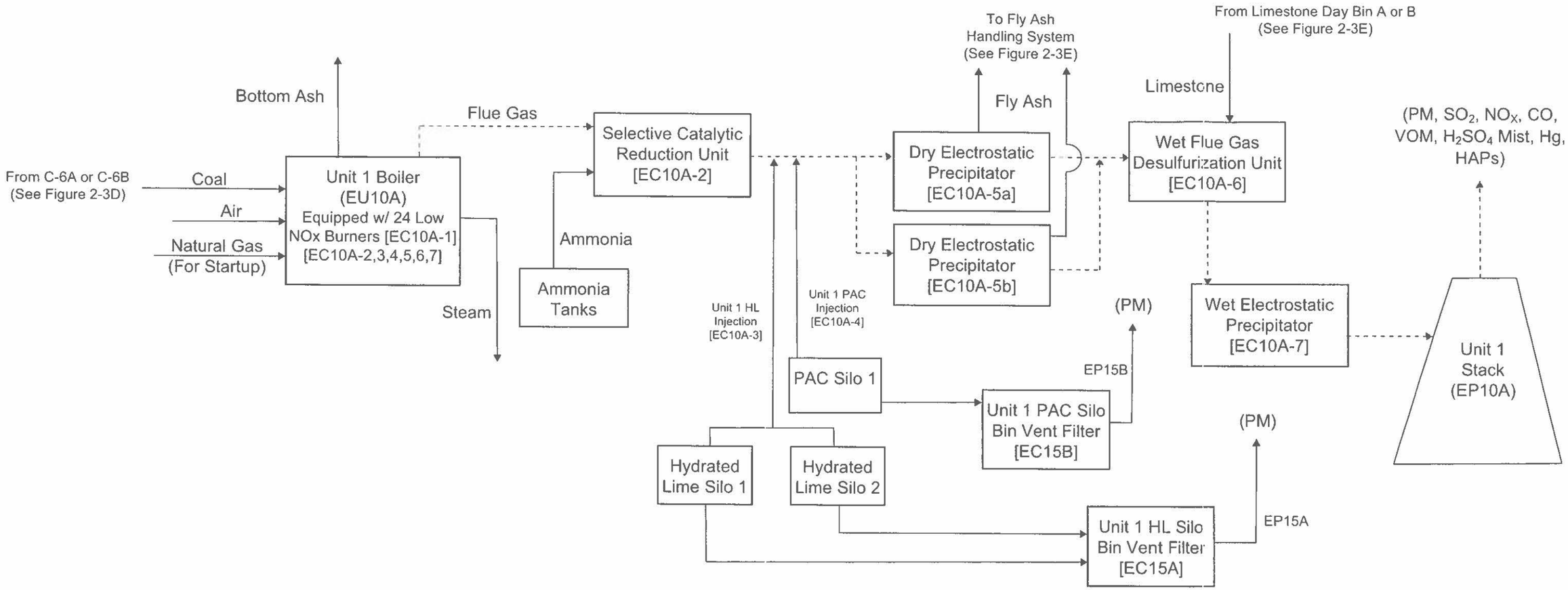
Exemption Type:

Portion Removed

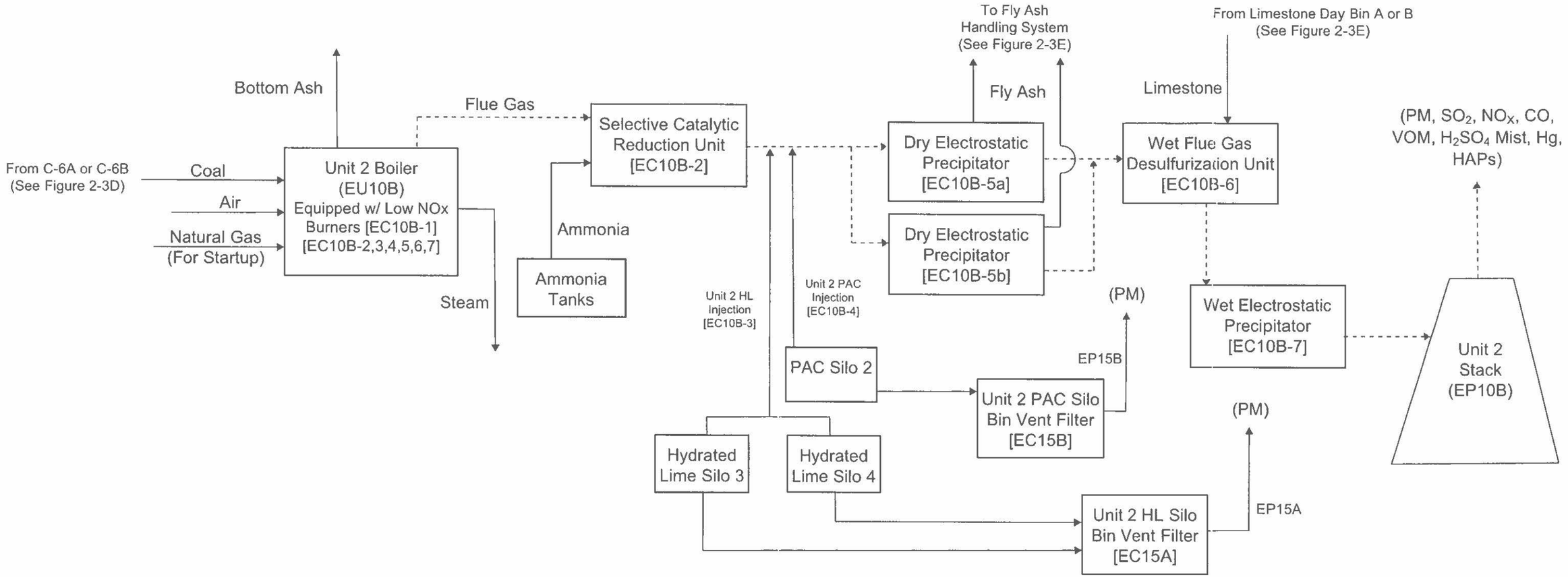
Exempt Doc #: 6 **Document Date:** 5 /5 /2011 **Staff:** JKS

Document Description: PERMIT AMENDED APPLICATION: AREA MAP TAB

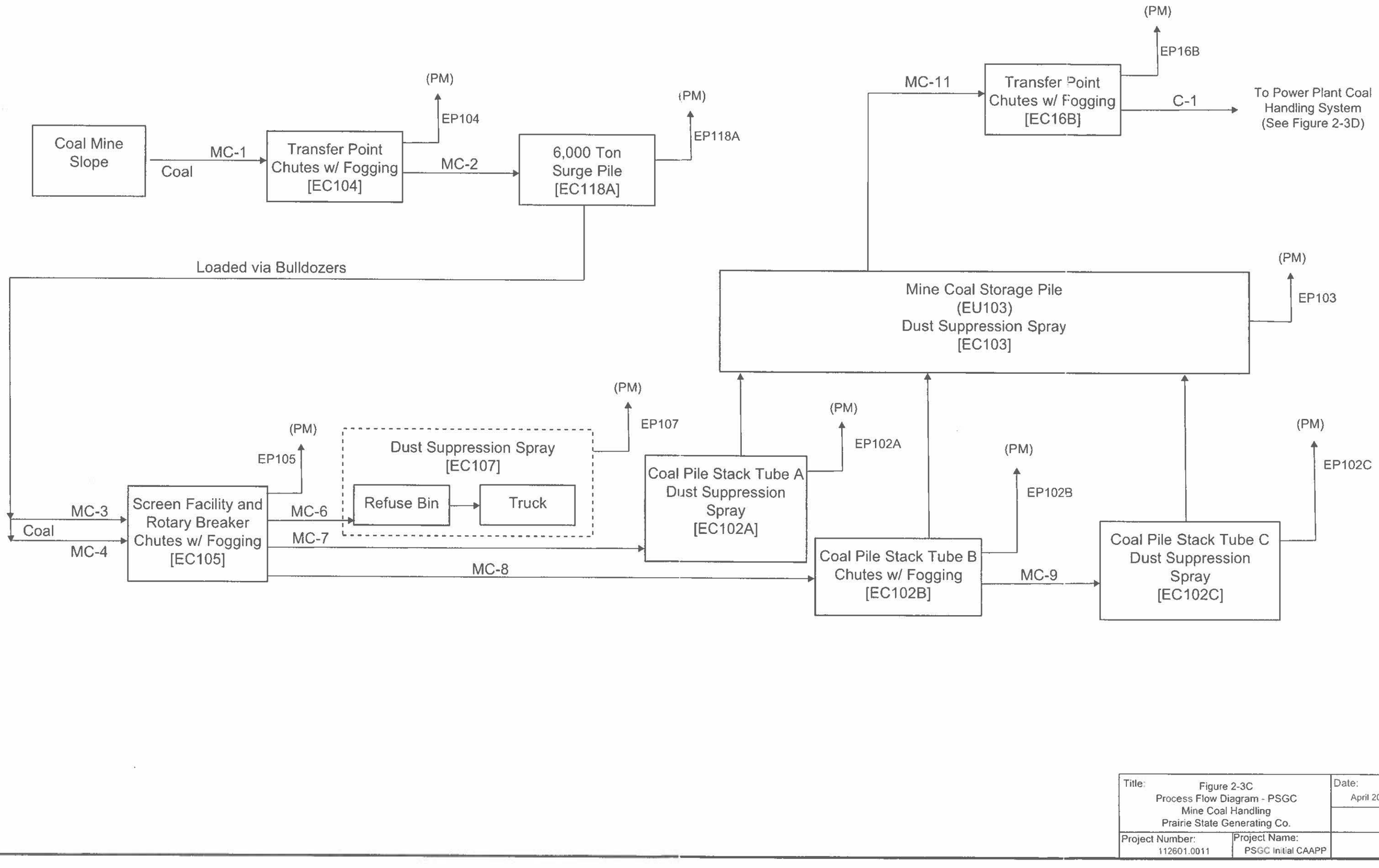
Category ID: 03M **Category Description:** AIR PERMIT - CONSTRUCTION/JOINT **Exempt Type:** Portion Removed
Permit ID: 10010033 **Date of Determination:** 10/24/2014



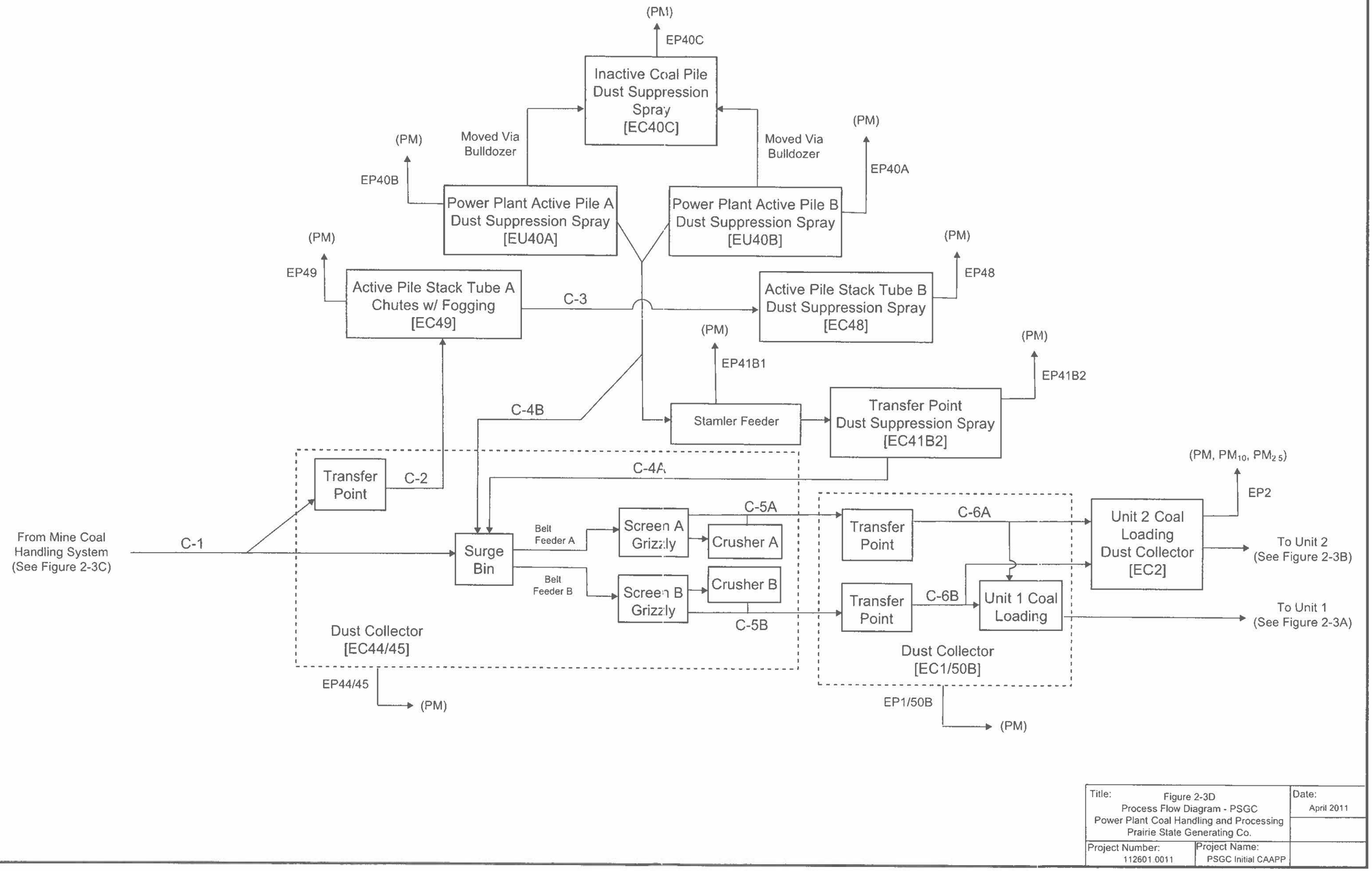
Title: Figure 2-3A Process Flow Diagram - PSGC Unit 1 and Auxiliary Boiler Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	



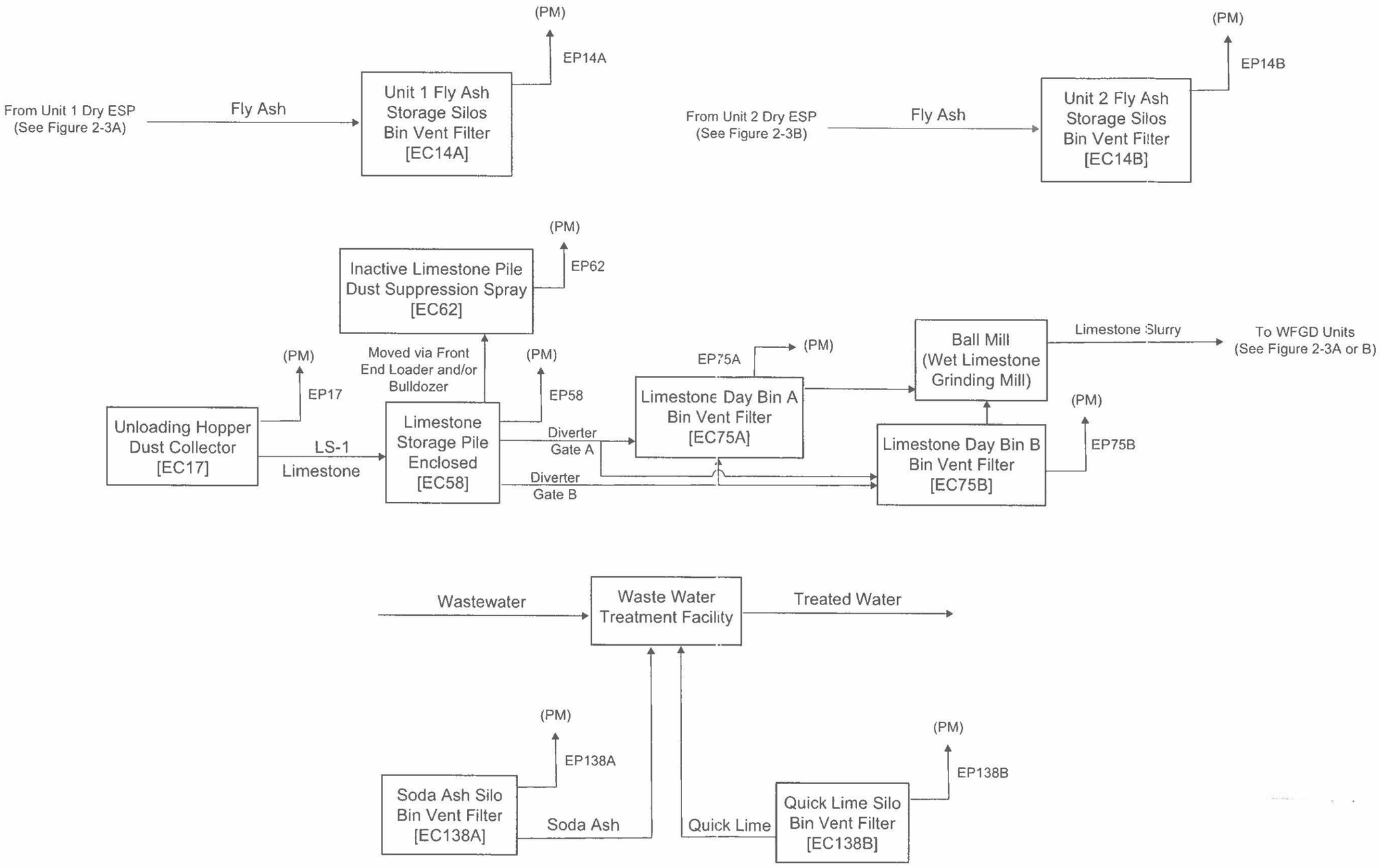
Title: Figure 2-3B Process Flow Diagram - PSGC Unit 2 Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	



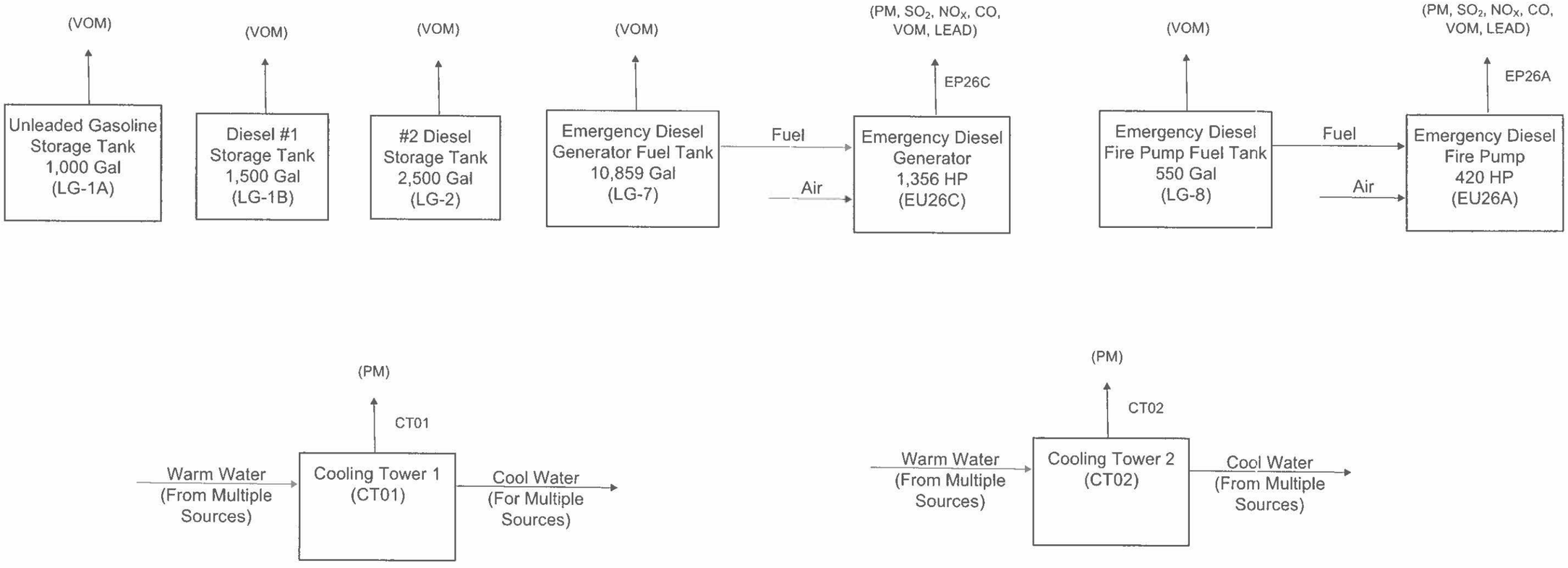
Title: Figure 2-3C Process Flow Diagram - PSGC Mine Coal Handling Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	



Title: Figure 2-3D Process Flow Diagram - PSGC Power Plant Coal Handling and Processing Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	



Title: Figure 2-3E Process Flow Diagram - PSGC Fly Ash and Limestone Handling and Water Treatment Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	



Title: Figure 2-3F Process Flow Diagram - PSGC Ancilliary Activities Prairie State Generating Co.		Date: April 2011
Project Number: 112601.0011	Project Name: PSGC Initial CAAPP	

3. EMISSION CALCULATIONS

Calculations for PSGS were submitted to the IEPA with the facility's PSD application, including updates submitted to the IEPA subsequent to the initial PSD application. PSGS does not have any additional data that would warrant a revision to the submitted calculations. Therefore, the PSD calculations, including updates, have been incorporated by reference as indicated on Form 287-CAAPP which is included in Section 6. One insignificant activity included in this application (limestone rock duster silo) required a calculation to show that it is below the insignificant threshold listed in 35 IAC 201.210(a)(3). This calculation is included in Appendix A of this application.

PSGS has requested the ability to operate during startup and malfunction/breakdown periods for several emission units. These units have the potential to emit at higher than typical rates during these times. As such, PSGS has calculated maximum emissions during startup and/or malfunction/breakdown for selected units. These calculations are included in Appendix A of this application.

Sections 4.1 and 4.2 of this application summarize the applicability or non-applicability of certain Illinois and federal regulations, respectively.

4.1 STATE OF ILLINOIS REGULATORY APPLICABILITY

This section includes a regulatory applicability discussion as it relates to PSGS for selected regulations under Title 35, Chapter I of the IAC. Unit-specific regulation applicability and compliance methods for each emission unit are included in the emission unit forms (220-CAAPP and 240-CAAPP forms) in Section 6 of this application.

4.1.1 35 IAC 201.149 AND 201.262 – OPERATION DURING MALFUNCTION, BREAKDOWN OR STARTUPS

PSGS shall not cause or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of applicable standards set forth in 35 IAC Subchapter B.I.c, unless the operating permit granted by IEPA provides for operation during malfunction or breakdown. Similar permission is required for exceeding emission limitations during startup.

In accordance with 35 IAC 201.262, PSGS is requesting that IEPA include conditions in PSGS's Title V operating permit for continued operation of Unit 1, Unit 2, bulk material operations, and the coal crushers during the malfunction or breakdown of the associated control equipment. This request is being made in order for PSGS to maintain reliable electrical service, which is an essential service to the public.

Further information regarding why these units must operate during malfunctions, types of malfunctions expected, and techniques for minimizing malfunction events and emissions is provided on 204-CAAPP forms included in Section 6 of this application.

Additionally, PSGS is requesting that IEPA include allowances for increased emissions during the startup of Unit 1, Unit 2, and associated control equipment.

During Unit 1 and Unit 2 startup, emission standards may be exceeded for PM, opacity, CO, SO_2, and/or NO_X, established pursuant to 35 IAC 212.204, 212.122(a), 216.121, 214.121, and 217.121, respectively. Section 6 of this application contains 203-CAAPP forms that provide an explanation of the startup procedure and why the emissions standards may be exceeded. The 203-CAAPP forms also describe measures taken to minimize startup emissions and to minimize the frequency and duration of startups.

4.1.2 35 IAC 244 – Episode Action Plan

35 IAC Part 244 contains provisions for air pollution episodes in Illinois. Four levels of air episodes are defined in 35 IAC 244, Subpart D, as Advisory, Yellow Alert, Red Alert, and Emergency. The IEPA requires certain facilities, including electric power generating stations burning fossil fuels, to prepare and maintain an Episode Action Plan specifying actions that will be taken to reduce levels of air emissions during yellow and red alerts as well as emergencies.

PSGS is subject to the requirements of Part 244. As such, a written Episode Action Plan containing all information required by 35 IAC 244.144 has been submitted with this application and is maintained on-site at PSGS.

4.1.3 35 IAC 212, Subpart B – Visible Emissions

35 IAC 212, Subpart B regulates visible PM emissions. Section 212.122 regulates visible emissions from fuel combustion emission units constructed after April 14, 1972, with a heat input capacity greater than 250 MMBtu/hr. Units 1 and 2 at PSGS are subject to Section 212.122 requirements. As such, neither Unit 1 nor Unit 2 may emit smoke or PM with an opacity greater than 20 percent, except that opacity of up to 40 percent is allowed for no more than three minutes per 60 minute period, no more than three times per 24 hour period, provided only one such opaque emission during any 60 minute period is located at least 1000 feet from any other such emission unit owned by PSGC.

35 IAC 212.123 regulates visible emissions from all emission units not subject to Section 212.122. Therefore, each emission unit except Units 1 and 2 at PSGS is subject to Section 212.123 requirements. As such, no emission unit at PSGS may emit smoke or PM with opacity greater than 30 percent, except that opacity of up to 60 percent is allowed for no more than 8 minutes per 60 minute period, and that such opaque emissions shall be limited to no more than three times per 24 hour period.

Pursuant to Section 212.124, the opacity standards shall not apply to emissions of water or water vapor from an emission unit. Opacity is determined by 6-minute averages pursuant 35 IAC 212.109, which references the procedures in 40 CFR 60.675(c).

4.1.4 35 IAC 212, Subpart E – Particulate Emissions from Fuel Combustion Emission Units

35 IAC 212, Subpart E regulates PM emissions from fuel combustion emissions units burning liquid or solid fuels, located outside the Chicago area. Pursuant to Section 212.204, Unit 1 and Unit 2 each may emit no more than 0.1 lb/MMBtu while burning coal as its principal fuel.

4.1.5 35 IAC 212, Subpart K – Fugitive Particulate Matter

35 IAC 212, Subpart K regulates fugitive PM emissions. PSGS must comply with 35 IAC 212.301 which prohibits the emission of fugitive PM from any process, including any

material handling or storage activity that is visible by an observer looking generally toward the zenith at a point beyond the property line of PSGS. 35 IAC 212.314 allows for an exception to this rule when the wind speed is greater than 25 miles per hour.

4.1.6 35 IAC 212, Subpart L – Particulate Emissions from Process Emission Units

35 IAC 212, Subpart L regulates PM emissions from process units. The coal processing equipment, coal handling equipment, HL injection systems/storage silos, and PAC injection systems/storage silos are subject to the emission limits in Subpart L. As provided in the PSD issued by the IEPA, coal handling at the mine and the transfer belt from the mine to the power plant are not subject to this rule.

Pursuant to Section 212.321, emissions from process units for which construction or modification commenced on or after April 14, 1972, shall not exceed that which is calculated using Equation 4.1-1. All of the applicable equipment was constructed after April 14, 1972, and will comply with the limit calculated per Equation 4.1-1. Table 4-1 summarizes the emission limits for process groups as determined by 326 IAC 212.321 at maximum operating rates. Unit specific emissions limits are included in the CAAPP forms included in Section 6.

$E = A(P)^B$ (Equation 4.1-1)

Where:

E = Allowable Emission Rate, lb/hr
P = Process Weight Rate[1], tons/hr
A = 2.54 ($P < 450$ tons/hr) or 24.8 ($P \geq 450$ tons/hr)
B = 0.534 ($P < 450$ tons/hr) or 0.16 ($P \geq 450$ tons/hr)

[1] As defined in 35 IAC 211.5250, process weight rate means the actual weight or engineering approximation of all materials except liquid and gaseous fuels and combustion air introduced into any process per hour.

4.1.9 35 IAC 215, Subpart B – Organic Emissions from Storage and Loading Operations

35 IAC 215, Subpart B regulates organic emissions from storage and loading operations. Section 215.121 and 215.123 regulate tanks with a capacity greater than 40,000 gallons storing a volatile organic liquid (VOL) with a vapor pressure of 2.5 pounds per square inch absolute (psia) or greater or volatile petroleum liquid, respectively. None of the storage tanks at PSGS meet both the size and material specifications of these sections.

Section 215.122(b) regulates loading operations into tanks greater than 250 gallons. Per 215.122(c), if no odor nuisance exists, Section 215.122 applies only to tanks storing an organic liquid with a vapor pressure of 2.5 psia or greater. Any gasoline tanks on-site will be subject to this rule.

4.1.10 35 IAC 215, Subpart K – Use of Organic Material

35 IAC 215, Subpart K regulates the use of organic material. Pursuant to 35 IAC 215.303, Subpart K does not apply to fuel combustion units. Therefore, Unit 1, Unit 2, and the auxiliary boiler are not subject to this subpart. The emergency diesel generator and the emergency diesel fire pump do not meet the definition of fuel combustion unit. Therefore, these units, in addition to the organic material storage tanks (including the gasoline and diesel storage tanks) and gasoline and diesel dispensing facilities may not emit greater than 8 lbs/hr of photochemically reactive organic material each, pursuant to Section 215.301.

4.1.11 35 IAC 215, Subpart Y – Gasoline Distribution

35 IAC 215, Subpart Y regulates gasoline distribution. Pursuant to 35 IAC 215.583(a)(1), the gasoline storage tank (LG-1A) must be equipped with a submerged loading pipe.

4.1.12 35 IAC 216 – Carbon Monoxide Emissions

35 IAC 216 establishes CO emission standards from various emission unit types. The only emission unit type at PSGS that is covered in this regulation is fuel combustion emission sources. Specifically, Unit 1, Unit 2, and the auxiliary boiler may not emit greater than 200 ppm CO, corrected to 50 percent excess air, pursuant to Section 216.121.

4.1.13 35 IAC 217, Subpart V – Electric Power Generation

Pursuant to 35 IAC 217.704, fossil fuel-fired boilers and combustion turbines serving a generator that has a nameplate capacity greater than 25 MW and producing electricity for sale, except for those units listed in Appendix D to 35 IAC 217, are subject to the requirements of 35 IAC 217, Subpart V. None of the units present at PSGS are listed in Appendix D; therefore, Unit 1 and Unit 2 are subject to 35 IAC 217, Subpart V.

Unit 1 and Unit 2 are subject to the NO_X emission limit in §217.706(a) of 0.25 lbs/MMBtu of actual heat input during each ozone control period (defined in §217.700 as May 1st through September 30th), on an ozone control period average basis.

4.1.14 35 IAC 225, Subpart B – Illinois Mercury Rule

Per 35 IAC 225.205(a), an electrical generating unit (EGU), defined here as a coal-fired unit serving a generator with nameplate capacity of more than 25 MWe producing electricity for sale, is subject to 35 IAC 225, Subpart B, which regulates mercury emissions. As such, Unit 1 and Unit 2 are subject to this rule. Note that 35 IAC 225 is a state-only rule; as such the requirements of Part 225, Subpart B are not currently federally enforceable and related conditions should be included in a state-only section of the CAAPP permit, as provided by Section 39.5(7)(m) of the Environmental Protection Act.

4.1.15 35 IAC 225, Subparts C, D, and E – CAIR

35 IAC 225, Subparts C, D, and E establish the Clean Air Interstate Rule (CAIR) SO_2 (Subpart C), Annual NO_X (Subpart D), and Ozone Season NO_X (Subpart E) trading programs. These rules implement the federal CAIR program for Illinois. Pursuant to 35 IAC 225.305, 405, and 505, all three trading programs have the same applicability criteria. As such, any unit subject to any one trading program is subject to all three. Per §225.305(a)(1), §225.405(a)(1), and §225.505(a)(1), any stationary, fossil fuel-fired boiler or combustion turbine serving at any time, since the later of November 15, 1990, or the start-up of the unit's combustion chamber, a generator with nameplate capacity of more than 25 MW producing electricity for sale is subject to the CAIR trading program. As such, Units 1 and 2 are subject to CAIR.

4.1.16 35 IAC 254 – Annual Emissions Report

Per 35 IAC 254.102(a), a source required to have an operating permit in accordance with 35 IAC 201 that is permitted to emit more than 25 tpy of any combination of regulated air pollutants must comply with the requirements for emissions reporting for large sources in 35 IAC 254, Subpart B. PSGS is permitted to emit greater than 25 tpy of regulated air pollutants. As such, PSGS is required to report annual source-wide totals of actual emissions of regulated air pollutants as well as some basic information about the facility.

4.2 Federal Regulatory Applicability

This section of the application covers applicability of certain rules promulgated under the Code of Federal Regulations (CFR). Specifically, New Source Performance Standards (NSPS) codified under 40 CFR 60, Maximum Achievable Control Technology (MACT) standards codified under 40 CFR 63, and various additional regulations are addressed in this section. Unit-specific regulation applicability and compliance methods for each emission unit are included in the emission unit forms (220 and 240-CAAPP forms) in Section 6 of this application.

4.2.1 40 CFR 60 Subpart Da – Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

40 CFR 60, Subpart Da establishes requirements for electric utility steam generating units that commence construction, modification, or reconstruction after September 18, 1978, and that have a heat input capacity greater than 250 MMBtu/hr.

Units 1 and 2 meet the applicability criteria for Subpart Da and are subject to the PM, SO_2, NO_X, Opacity, and Hg standards and to the associated monitoring, reporting, and recordkeeping requirements in §60.49Da, §60.51Da, and §60.52Da respectively.

Pursuant to 40 CFR 60.42Da(c)(1), PM emissions from Units 1 and 2 may not exceed either 0.14 lb/MWh or 0.015 lb/MMBtu heat input. As an alternative to meeting the above PM limit, PSGS may choose to emit no more than 0.03 lb/MMBtu while achieving at least 99.9 percent removal of PM calculated according to the procedure in 40 CFR 60.48Da(o)(5) as outlined in 40 CFR 60.42Da(d).

Pursuant to 40 CFR 60.43Da(i), SO_2 emissions from Units 1 and 2 may not exceed 1.40 lb/MMBtu heat input or a 95 percent reduction of potential combustion concentration of SO_2 emissions, on a rolling 30-day average.

Pursuant to 40 CFR 60.44Da(a), NO_X emissions from Units 1 and 2 may not exceed 0.60 lb/MMBtu heat input for bituminous coal, on a 30-day rolling average with a reduction of 65 percent in the NO_X potential combustion concentration. In accordance with 40 CFR 60.44Da(e)(1), NO_X emissions from Units 1 and 2 may not exceed 1.0 lb/MWh gross energy output on a 30-day rolling average basis.

Pursuant to 40 CFR 60.45Da(a)(1), Hg emissions from Units 1 and 2 may not exceed 0.020 lb/GWh on an output basis for bituminous coal on a 12-month rolling average.

The PM, NO_X, and SO_2 limits required by 40 CFR 60, Subpart Da do not apply during startup, shutdown, and malfunction. [40 CFR 60.48Da(c)] PSGS specifically requests that this provision applicable under the NSPS be reflected either in the permit shield or in the startup, malfunction, and breakdown conditions of the permit.

4.2.2 40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

40 CFR 60, Subpart Db establishes requirements for steam generating units that commence construction, modification, or reconstruction after June 19, 1984, and that have a heat input capacity greater than 100 MMBtu/hr.

The auxiliary boiler meets the applicability criteria for Subpart Db but is not subject to the NO_X standards of 40 CFR 60.44Db as the annual capacity factor shall be less than ten percent for natural gas as outlined in Section 2.4.4(c) of the PSD Permit.

The auxiliary boiler is not subject to the PM requirements because the boiler fires only natural gas and Subpart Db does not regulate PM emissions from units fired exclusively with natural gas. Similarly, the auxiliary boiler is exempt from the SO_2 standards, pursuant to 40 CFR 60.42b(k)(2) because it burns natural gas and the potential SO_2 emission rate is equal to or less than 0.32 lb/MMBtu. PSGS specifically requests that this non-applicable provision under the NSPS be reflected in the permit shield.

4.2.3 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants

40 CFR 60, Subpart Y establishes standards for certain facilities constructed or modified after October 24, 1974, at coal preparation plants which process more than 200 tons per day. PSGS commenced construction on the coal handling, processing, and storage equipment on September 20, 2007 – prior to the April 28, 2008, applicability date for Subpart Y – and has not reconstructed or modified these units. Therefore, these units are subject to the opacity requirement of 20 percent, pursuant to 40 CFR 60.254(a).

PSGS commenced construction on both the mine and power plant open storage piles on September 20, 2007 – prior to the May 27, 2009, applicability date for Subpart Y – and has not reconstructed or modified these units. Therefore the provisions of Subpart Y do not apply, pursuant to 40 CFR 60.250(b) through (d).

4.2.4 40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants

40 CFR 60, Subpart OOO establishes standards for certain facilities constructed or modified after August 31, 1983 located at nonmetallic mineral processing plants. Nonmetallic mineral processing plant is defined in 40 CFR 60.671 as any combination of equipment used to crush or grind or process any nonmetallic mineral. Limestone is included in the definition of a nonmetallic mineral (60.671). Therefore, the ball mill, a zero emission process used for wet grinding of the limestone into a limestone slurry, is covered by the definition of a grinding mill (60.671). As such, all of the limestone handling and processing equipment is subject to Subpart OOO.

4.2.5 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

40 CFR 60, Subpart IIII regulates compression ignition internal combustion engines (CI ICE) which are commence construction after July 11, 2005, where the CI ICE are manufactured after April 1, 2006. The 1356 hp diesel emergency backup generator and 420 hp emergency fire pump diesel engine, classified as insignificant activities, were constructed after July 11, 2005, and the engines were manufactured after April 1, 2006. Therefore, these insignificant activities are subject to NSPS Subpart IIII.

4.2.6 40 CFR 63 Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers

40 CFR 63, Subpart Q establishes MACT standards for all industrial process cooling towers located at a major source of HAP. However, cooling towers that do not use chromium-based water treatment chemicals are exempt. [40 CFR 63.400(a)] Cooling tower units CT01 and CT02 do not use chromium-based water treatment chemicals and so are not subject to this rule. PSGS's PSD permit Condition 2.3.6.a prohibits use of chromium-based water treatment chemicals in the cooling towers.

PSGS requests permit shield from the applicability of Subpart Q

4.2.7 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines

40 CFR 63, Subpart ZZZZ establishes MACT standards for all stationary reciprocating internal combustion engines (RICE). The 1356 hp diesel emergency backup generator and 420 hp emergency fire pump diesel engine are affected sources, as defined in 40 CFR 63.6585; therefore they are subject to the requirements of Subpart ZZZZ. These stationary RICE are operated only during emergency situations and for maintenance checks; therefore, they meet the definition of emergency stationary RICE, pursuant to 40 CFR 63.6675. In addition, both engines are considered new stationary RICE as they were installed after June 12, 2006, and December 19, 2002, respectively. PSGS will comply with the requirements of Subpart ZZZZ by complying with 40 CFR 60, Subpart IIII as outlined in 63.6590(c). No further requirements apply to the engines under this subpart. PSGS specifically requests that these non-applicable requirements under the NESHAP be reflected in the permit shield.

4.2.8 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

40 CFR 63, Subpart DDDDD established MACT standards for all boilers and process heaters located at a major source of HAP. The auxiliary boiler is an affected source, as defined in 40 CFR 63.7485; therefore, it is subject to the requirements of Subpart DDDDD. Units 1 and 2 are not affected sources as defined in 40 CFR 63.7491(a) as these two units are electric steam generating units.

The auxiliary boiler is considered an existing unit under the rule, since construction commenced prior to June 4, 2010.[4] The boiler fires only natural gas and has a federally enforceable limit on its hours of operation of less than 10 percent as described in Section 2.4.7 in the PSD permit; therefore, the auxiliary boiler meets the definition of a limited use gaseous fuel boiler, pursuant to 40 CFR 63.7575. As such, the auxiliary boiler does not have any emission limits, reporting or testing as described in the rule. PSGS specifically

[4] 40 CFR 63.7490(b)

requests that these non-applicable requirements under the NESHAP be reflected in the permit shield.

4.2.9 40 CFR 63 – National Standards for Hazardous Air Pollutants for Coal- and Oil-Fired Electric Utility Steam Generating Units

Previously, coal- and oil-fired electric utility steam generating units were listed under Section 112(c) of the Clean Air Act (CAA) as a source category requiring a MACT standard. However, the rule that created the federal Clean Air Mercury Rule (CAMR) also "de-listed" this category. With the February 8, 2008, vacatur of the CAMR rule, coal and oil utilities were reinstated on the Section 112(c) list. A proposed MACT standard for utility boilers was issued on March 16, 2011. PSGS will comply with the rule when it is promulgated. However, since the MACT standard is only proposed at this point in time, Unit 1 and 2 are subject to the case-by-case standards of 40 CFR 63.43. A case-by-case MACT determination was made as a part of the PSD permit review process and limitations in the PSD permit reflect such.

4.2.10 40 CFR Part 68 – Risk Management Program

PSGS is subject to Section 112(r) of the Clean Air Act, more commonly known as the Risk Management Program (RMP), due to the storage of ammonia on-site. The SCR uses ammonia and is expected to store ammonia in a quantity that exceeds the RMP threshold. A complete RMP Plan will be submitted prior to storing more than the threshold quantity of ammonia on-site.[5]

4.2.11 40 CFR Part 70 – Greenhouse Gas Tailoring Rule

The GHG tailoring rule was published in 75 FR 31514 (June 3, 2010) amending 40 CFR 52.21 and Part 70. The rule establishes PSD and Title V thresholds for six well-mixed GHG. As of January 2, 2011, sources required to obtain Title V permits will need to evaluate GHG as another pollutant with a threshold of 100 tpy potential to emit on a mass basis and 100,000 tpy potential to emit on a carbon dioxide equivalent (CO_2e) basis. PSGS is a major source of GHG.

4.2.12 40 CFR Parts 72, 73, 75, 76, and 77 – Acid Rain Program

Units 1 and 2 are new devices that service units that produce electricity for sale. Therefore, per the applicability criteria in 40 CFR 72.6(a)(2) and the definition of "utility unit" in §72.2, they are subject to the Acid Rain Program (Title IV of the Clean Air Act). In particular, Units 1 and 2 and PSGS are subject to the requirements of 40 CFR Parts 72, 73, and 75 – 78 as well as the requirements in Section 39.5 of the Illinois Environmental Protection Act pertaining to "acid rain." The relevant significant requirements of these regulations are summarized below.

[5] The timing of the RMP is distinct from other permitting requirements, (i.e., all facility equipment may be constructed prior to the submittal of the RMP).

5.1 CAM APPLICABILITY

Pursuant to 40 CFR 64.5(b) and the issued PSD permit, PSGS is required to submit CAM information as part of the application for this CAAPP Permit. Per the applicability criteria in 40 CFR 64.2(a), CAM applies to any pollutant specific emission unit (PSEU) that:

- ▲ Is subject to a federally enforceable emission limit or standards for a regulated air pollutant;
- ▲ Uses a control device to comply with that federally enforceable emission limit; and
- ▲ Has a potential-to-emit (PTE), without taking into account the control device, for one or more regulated pollutant in an amount (in tons per year) equal to or greater than 100 percent of the CAAPP major source threshold.

PSGS has two units that utilize control devices and are potentially subject to CAM, as shown in Table 5-1.

TABLE 5-1. UNITS POTENTIALLY SUBJECT TO CAM

Emission Unit	Control Device	Pollutant Controlled	Controlled Emissions (tpy)	Control Efficiency	Uncontrolled PTE (tpy)	Major Source Threshold (tpy)
Unit 1 Boiler	Unit 1 Dry ESP (EC10A-5); Unit 1 Wet ESP (EC10A-7)	PM	1,143	99.7%	381,000	100
Unit 2 Boiler	Unit 2 Dry ESP (EC10B-5); Unit 2 Wet ESP (EC10B-7)	PM	1,143	99.7%	381,000	100

These sources are potentially subject to CAM requirements because the pre-control PTE emissions of PM from individual emission unit for which they provide control are greater than the CAAPP major source threshold of 100 tpy.

Next, the PSEUs and control devices were analyzed to determine whether they are subject to any federally enforceable emission limits or standards for PM. The summary of this analysis is given in Table 5-2. Due to the fact that all control units and/or emission units routed to them are subject to federally enforceable emission limits, CAM plans must be developed for these two control devices. See Form 464-CAAPP – Compliance Assurance Monitoring Plan in Section 6 of this application for more information.

TABLE 5-2. UNITS SUBJECT TO CAM

Emission Unit	Control Device	Pollutant Controlled	Federally Enforceable Emission Limit	Subject to CAM (Yes/No)
Unit 1 Boiler	Unit 1 Dry ESP (EC10A-5); Unit 1 Wet ESP (EC10A-7)	PM	PSD - Condition 2.1.2(b)(i)(B) - PM_{filt} <0.015 lb/MMBtu PSD - Condition 2.1.2(b)(i)(B) - $PM_{cond-filt}$ <0.035 lb/MMBtu	Yes
Unit 2 Boiler	Unit 2 Dry ESP (EC10B-5); Unit 2 Wet ESP (EC10B-7)	PM	PSD - Condition 2.1.2(b)(i)(B) - PM_{filt} <0.015 lb/MMBtu PSD - Condition 2.1.2(b)(i)(B) - $PM_{cond-filt}$ <0.035 lb/MMBtu	Yes

6. CAAPP Application Forms

Supplement to CAAPP Application (505-CAAPP)
Application for CAAPP Permit (200-CAAPP)
Fee Determination for CAAPP Permit (292-CAAPP)
Compliance Certification (296-CAAPP)
Compliance Plan/Schedule of Compliance for CAAPP Permit (293-CAAPP)
Compliance Assurance Monitoring Plan (464-CAAPP)
Request for a Title I Incorporation into the CAAPP (283-CAAPP)
Incorporate by Reference (287-CAAPP)
Single Source Determination (286-CAAPP)
Application for CAIR Permit for Electrical Generating Units (670-CAAPP)
List of Insignificant Activities (297-CAAPP)
List of Significant Activities (299-CAAPP)
Hazardous Air Pollutant (HAP) Emission Summary (215-CAAPP)
Emission Unit Which Does Not Emit a Hazardous Air Pollutant (215a-CAAPP)
Fugitive Emissions (391-CAAPP)
Air Pollution Episode Action Plan (APC-100)

Unit 1 Natural Gas Startup Mode (240-CAAPP)
Unit 1 Boiler Coal Mode (240-CAAPP)
Unit 1 Switchover Mode (240-CAAPP)
Unit 1 Low-NO_X Burners (260 and 260I-CAAPPs)
Unit 1 SCR (260 and 260I-CAAPPs)
Unit 1 PAC Injection (260 and 260K-CAAPPs)
Unit 1 HL Injection (260 and 260K-CAAPPs)
Unit 1 Dry ESPs (260 and 260F-CAAPPs)
Unit 1 WFGD (260 and 260H-CAAPPs)
Unit 1 WESP (260 and 260F-CAAPPs)

Unit 2 Natural Gas Startup Mode (240-CAAPP)
Unit 2 Boiler Coal Mode (240-CAAPP)
Unit 2 Switchover Mode (240-CAAPP)
Unit 2 Low NO_X Burners (260 and 260I-CAAPPs)
Unit 2 SCR (260 and 260I-CAAPPs)
Unit 2 PAC Injection (260 and 260K-CAAPPs)
Unit 2 HL Injection (260 and 260K-CAAPPs)
Unit 2 Dry ESPs (260 and 260F-CAAPPs)
Unit 2 WFGD (260 and 260H-CAAPPs)
Unit 2 WESP (260 and 260F-CAAPPs)

Auxiliary Boiler (240-CAAPP)
Auxiliary Boiler Low NO_X Burners (260 and 260I-CAAPPs)

Cooling Towers 1 and 2 (220-CAAPPs)
Cooling Towers 1 and 2 Drift Eliminators (260 and 260K-CAAPPs)

Coal Handling Units (220-CAAPP)
Coal Handling Dust Collectors (260 and 260C-CAAPP)
Coal Handling Dust Suppression Spray and Fogging (260 and 260K-CAAPP)

Coal Processing Units (220-CAAPP)
Coal Processing Dust Collectors (260 and 260C-CAAPP)

Limestone Preparation Units (220-CAAPP)
Limestone Preparation Dust Collectors (260 and 260C-CAAPP)

Hydrated Lime Storage Silos (220-CAAPP)
Hydrated Lime Silos Bin Vent Filter (260 and 260C-CAAPP)

Powder Activated Carbon Storage Silos (220-CAAPP)
Powder Activated Carbon Silos Bin Vent Filter (260 and 260C-CAAPP)

Soda Ash Storage Silo (220-CAAPP)
Soda Ash Silo Bin Vent Filter (260 and 260C-CAAPP)

Lime Storage Silo (220-CAAPP)
Lime Silo Bin Vent Filter (260 and 260C-CAAPP)

Fly Ash Handling Units (220-CAAPP)
Fly Ash Handling Dust Collectors (260 and 260C-CAAPP)

Gasoline Storage Tank (232-CAAPP)

Unit 1 Startup (203-CAAPP)
Unit 2 Startup (203-CAAPP)

Unit 1 Malfunction (204-CAAPP)
Unit 2 Malfunction (204-CAAPP)
Bulk Material Equipment Malfunction (204-CAAPP)
Coal Crushing Units Malfunction (204-CAAPP)
Unit 1 Fly Ash Silo Malfunction (204-CAAPP)
Unit 2 Fly Ash Silo Malfunction (204-CAAPP)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #:
Date: / /
Page of
Source Designation:

SUPPLEMENT TO CAAPP APPLICATION	FOR AGENCY USE ONLY
	ID NUMBER: 189808AAB
	PERMIT #: 11050007
	DATE: 5-5-11

THIS FORM SHALL ACCOMPANY ANY SUPPLEMENT TO A CAAPP APPLICATION, THAT IS, ANY SUBMITTAL OF NEW OR CORRECTED INFORMATION FOR A PENDING CAAPP APPLICATION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

SUPPLEMENT INFORMATION

4) DOES THIS SUPPLEMENT PROVIDE ADDITIONAL INFORMATION?

IF YES, COMPLETE THE FOLLOWING: ☒ YES ☐ NO

NUMBER OF NEW PAGES IN THIS SUPPLEMENT: 679

EMISSION UNIT, EQUIPMENT, OR SUBJECT THAT THIS SUPPLEMENT ADDRESSES	UNIT DESIGNATION	NEW PAGE #(S)
All emission units except EP104 and EP118A		1-7, 19-121, 123-691

RECEIVED
MAY 05 2011
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 11 1 1/2 PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS F6RM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

APPLICATION PAGE 1

5) DOES THIS SUPPLEMENT CORRECT PREVIOUSLY SUBMITTED INFORMATION?
IF YES, COMPLETE THE FOLLOWING: ☒ YES ☐ NO

NUMBER OF REVISED PAGES IN THE SUPPLEMENT: 12

EMISSION UNIT, EQUIPMENT, OR SUBJECT THAT THIS SUPPLEMENT ADDRESSES	UNIT DESIGNATION	OLD PAGE #(S)	NEW PAGE #(S)
Mine Conveyor 1 transfer to Mine Conveyor 2	EP104	1-2; 3-6; 7-11; 12-15	8-9; 15-18; 10-14; 122
Mine Conveyor 2 transfer to 6,000-ton Surge Pile	EP118A	1-2; 3-6; 7-11; 12-15	8-9; 15-18; 10-14; 122

SIGNATURE BLOCK

6) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION, AS AMENDED BY THIS SUPPLEMENT, ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: Peter DeQuattro
AUTHORIZED SIGNATURE

President and CEO
TITLE OF SIGNATORY

Peter DeQuattro
TYPED OR PRINTED NAME OF SIGNATORY

5 / 5 / 11
DATE

APPLICATION PAGE 2

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505-CAAPP

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation
_____

APPLICATION FOR CAAPP PERMIT

(CHECK ONLY ONE)

☒ INITIAL APPLICATION

☐ RENEWAL APPLICATION

FOR AGENCY USE ONLY

ID NUMBER: 189808AAB

PERMIT #: 11050007

DATE: 5-5-11

SECTION ONE SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO INSTRUCTIONS IN BRIEF

1) COMPLETE THE FOLLOWING FORM WHEN APPLYING FOR AN INITIAL OR RENEWAL CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT.

2) A REQUEST TO MODIFY A CAAPP PERMIT SHOULD BE COMPLETED USING FORM 271-CAAPP "APPLICATION FOR MODIFICATION TO A CAAPP PERMIT".

3) THIS FORM PROVIDES APPLICATION AND SOURCE CONTACT INFORMATION TO THE AGENCY AS WELL AS ACTS AS A WORKSHEET FOR QUICKLY ASSESSING WHETHER THE CAAPP APPLICATION IS ADMINISTRATIVELY AND TECHNICALLY COMPLETE.

4) FESOP REQUESTS SHOULD COMPLETE THIS FORM, MARKING SECTION FOUR APPROPRIATELY.

5) REFER TO CAAPP 200 INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE SOURCE AND CONTACT INFORMATION

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station		2) DATE FORM COMPLETED: 03/15/2011
3) SOURCE STREET ADDRESS: 1739 New Marigold Rd		
4) CITY: Marissa		5) ZIP: 62257
6) IS THE SOURCE LOCATED WITHIN CITY LIMITS?		☐ YES ☒ NO
7) TOWNSHIP NAME: Lively Grove	8) COUNTY: Washington	9) TYPICAL NO. OF EMPLOYEES AT THE SOURCE: 537
10) ILLINOIS AIR POLLUTION SOURCE ID NO. (IF KNOWN): 189808AAB	11) FEDERAL EMPLOYER IDENTIFICATION NO. (FEIN): 26-0579880	
12) TYPE OF SOURCE AND PRODUCTS PRODUCED: Electric Generating Station		

RECEIVED
MAY 05 2011
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991 AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039 5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

APPLICATION PAGE 3

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200-CAAPP

13) PRIMARY STANDARD INDUSTRIAL CLASSIFICATION (SIC) CATEGORY:	14) PRIMARY SIC NO.:
Electric, gas and sanitary services	4911

15a) LATITUDE (DD:MM:SS):	b) LONGITUDE (DD:MM:SS):

16a) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):
16	4239.9552	266.7153

17a) COORDINATE METHOD:	b) REFERENCE LOCATION:	c) COORDINATE ACCURACY:
UTM	Boiler Stack	0.500 seconds

18) SOURCE ENVIRONMENTAL CONTACT PERSON:	19a) CONTACT PERSON'S TELEPHONE NO.:
Craig Bressan	(618) 824-7655

19b) CONTACT PERSON'S E-MAIL ADDRESS:
cbressan@psgc-llc.com

OWNER INFORMATION

20) NAME:
Prairie State Energy Campus Management Company

21) ADDRESS:
3872 County Highway 12

22) CITY:	23) STATE:	24) ZIP:
Marissa	IL	62257

25) OWNER'S AGENT (IF APPLICABLE):

OPERATOR INFORMATION

26) NAME:
Prairie State Generating Company, LLC

27) ADDRESS:
3872 County Highway 12

28) CITY:	29) STATE:	30) ZIP:
Marissa	IL	62257

BILLING INFORMATION

31) NAME:
Prairie State Generating Company, LLC Accounts Payable

32) ADDRESS:
P.O. Box 107

33) CITY:	34) STATE:	35) ZIP:
Marissa	IL	62257

36) CONTACT PERSON:	37) CONTACT PERSON'S TELEPHONE NO.:
Brent Wood, Controller	(618) 824-7682
38) CONTACT PERSON'S E-MAIL ADDRESS:	
bwood@psgc-llc.com	

APPLICANT INFORMATION

39) WHO IS THE PERMIT APPLICANT? (CHECK ONE):	☐ OWNER ☒ OPERATOR	40) ALL CORRESPONDENCE TO: (CHECK ONE)	☐ OWNER ☐ SOURCE ☒ OPERATOR

41) ATTENTION NAME AND/OR TITLE FOR WRITTEN CORRESPONDENCE:	
Peter DeQuattro, President and CEO	
42) TECHNICAL CONTACT PERSON FOR APPLICATION:	43) CONTACT PERSON'S TELEPHONE NO.:
Allison Lauf, Senior Environmental Specialist	(618) 824-7690
44) CONTACT PERSON'S E-MAIL ADDRESS:	
alauf@psgc-llc.com	

SECTION FOUR — PERMIT STATUS

WHY IS THE APPLICANT APPLYING FOR A CAAPP PERMIT?

1	THE POTENTIAL TO EMIT ONE OR MORE CRITERIA AIR POLLUTANT FOR THE SOURCE IS 100 TONS/YEAR OR GREATER? THE POTENTIAL TO EMIT HAZARDOUS AIR POLLUTANTS FOR THE SOURCE IS MORE THAN 10 TONS OF A SINGLE HAZARDOUS AIR POLLUTANT OR 25 TONS OF COMBINED HAZARDOUS AIR POLLUTANTS? CHECK ALL THAT APPLY. ☒ CARBON MONOXIDE (CO) ☒ NITROGEN OXIDES (NOx) ☒ PARTICULATE 10 MICROMETERS (PM10) ☒ PARTICULATE MATTER (PART) ☐ PARTICULATE 2.5 MICROMETERS (PM2.5) ☒ SULFUR DIOXIDE (SO2) ☒ VOLATILE ORGANIC MATERIAL (VOM) ☒ SINGLE HAZARDOUS AIR POLLUTANT ☒ COMBINED HAZARDOUS AIR POLLUTANT ☐ OTHER (SPECIFY): _____		
		YES	NO
2	THE SOURCE IS AN AFFECTED SOURCE FOR ACID RAIN DEPOSITION.	☒	☐
3	THE POTENTIAL TO EMIT AN INDIVIDUAL HAZARDOUS AIR POLLUTANT IS 10 TONS/YEAR OR MORE OF ANY SINGLE HAZARDOUS AIR POLLUTANT.	☒	☐
4	THE POTENTIAL TO EMIT ALL SOURCE WIDE HAZARDOUS AIR POLLUTANTS IS 25 TONS/YEAR OR MORE OF COMBINED HAZARDOUS AIR POLLUTANTS.	☒	☐
5	THE POTENTIAL TO EMIT A HAZARDOUS AIR POLLUTANT IS MORE THAN AN APPLICABLE LOWER THRESHOLD.	☐	☒
6	THE SOURCE IS AN AFFECTED SOURCE FOR OZONE DEPLETING SUBSTANCES REGULATED UNDER TITLE 6 OF THE CLEAN AIR ACT.	☒	☐
7	THE SOURCE CONTAINS EQUIPMENT OR OPERATIONS SUBJECT TO CERTAIN USEPA EMISSION STANDARDS (NSPS AND NESHAP) FOR WHICH USEPA REQUIRES A CAAPP PERMIT.	☒	☐
8	ARE ACTUAL EMISSIONS OF THE SOURCE BELOW THE APPLICABILITY LEVELS FOR A CAAPP PERMIT?*	☐	☒
9	DOES THE APPLICATION CONTAIN PROPOSED PERMIT LIMITATIONS THAT WILL CONSTRAIN THE EMISSIONS AND PRODUCTION OR OPERATION OF THE SOURCE SUCH THAT POTENTIAL EMISSIONS OF THE SOURCE WILL FALL BELOW THE LEVELS FOR WHICH A CAAPP PERMIT IS REQUIRED?	☐	☒
10	DOES THE APPLICANT HEREBY REQUEST A FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CONSTRAINING THE EMISSIONS AND PRODUCTION OR OPERATION OF THE SOURCE SUCH THAT POTENTIAL EMISSIONS WOULD FALL BELOW APPLICABILITY LEVELS AND THEREBY EXCLUDE THE SOURCE FROM REQUIRING A CAAPP PERMIT?	☐	☒

*Expected emissions are above CAAPP applicability levels.

SECTION FIVE	SUMMARY OF APPLICATION CONTENT CHECKLIST				
COMPLETE THE FOLLOWING TABLE, ANSWERING YES, NO, OR N/A AS APPROPRIATE. ANSWERING "NO" TO ANY OF THE BELOW, EXCEPT ITEM 33 OR 34, MAY RESULT IN THE ILLINOIS EPA REQUESTING ADDITIONAL INFORMATION, OR POSSIBLY DEEMING THE APPLICATION TO BE INCOMPLETE. IF THE APPLICANT CHOOSES TO INCORPORATE BY REFERENCE DATA PREVIOUSLY SUBMITTED, SELECT THAT COLUMN APPROPRIATLY AND INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.		INFORMATION PROVIDED			INCORPORATE BY REFERENCE
		YES	NO	N/A	
1)	DOES THE APPLICATION INCLUDE A TABLE OF CONTENTS?	☒	☐	☐	☐
2)	DOES THE APPLICATION INCLUDE A COMPLETE PROCESS DESCRIPTION FOR THE SOURCE?	☒	☐	☐	☐
3)	DOES THE APPLICATION INCLUDE A PLOT PLAN AND/OR MAP DEPICTING THE AREA WITHIN ONE-QUARTER MILE OF THE SOURCE?	☒	☐	☐	☐
4)	DOES THE APPLICATION INCLUDE A PROCESS FLOW DIAGRAM(S) SHOWING ALL EMISSION UNITS AND CONTROL EQUIPMENT, AND THEIR RELATIONSHIP?	☒	☐	☐	☐
5)	DOES THE APPLICATION INCLUDE THE APPROPRIATE, COMPLETED FORMS FOR ALL INDIVIDUAL EMSSION UNITS AND AIR POLLUTION CONTROL EQUIPMENT, LISTING ALL APPLICABLE REQUIREMENTS AND PROPOSED EXEMPTIONS FROM OTHERWISE APPLICABLE REQUIREMENTS?	☒	☐	☐	☐
6)	DOES THE APPLICATION INCLUDE CALCULATIONS TO THE EXTENT THEY ARE RELATED TO AIR EMISSIONS (E.G., FOR POLLUTANT EMISSION RATES, FUELS, RAW MATERIALS USAGE, OR CONTROL EQUIPMENT EFFICIENCY?	☐	☐	☐	☒
7)	DOES THE APPLICATION INCLUDE A COMPLETED "LISTING OF SIGNIFICANT ACTIVITIES" FORM 299-CAAPP?	☒	☐	☐	☐
8)	DOES THE APPLICATION INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.	☒	☐	☐	☐
9)	DOES THE APPLICATION INCLUDE A COMPLETED "HAZARDOUS AIR POLLUTANT EMISSION SUMMARY" FORM 215-CAAPP?	☒	☐	☐	☐
10)	DOES THE APPLICATION INCLUDE A COMPLETED "FEE DETERMINATION FOR CAAPP PERMIT" FORM 292-CAAPP? (NOTE: ANNUAL FEES WILL BE BASED UPON INFORMATION CONTAINED IN THIS FORM.)	☒	☐	☐	☐
11)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT" FORM 293-CAAPP?	☒	☐	☐	☐
12)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE-ADDENDUM FOR NONCOMPLYING EMISSION UNITS" FORM 294-CAAPP FOR ONE OR MORE NONCOMPLIANT EMISSION UNITS FOR WHICH ISSUANCE OF A CAAPP PERMIT IS REQUESTED?	☐	☐	☒	☐
13)	DOES THE APPLICATION INCLUDE A COMPLETED "COMPLIANCE CERTIFICATION" FORM 296-CAAPP?	☒	☐	☐	☐
14)	DOES THE APPLICATION INCLUDE A COMPLETED "LISTING OF INSIGNIFICANT ACTIVITIES" FORM 297-CAAPP?	☒	☐	☐	☐
15)	DOES THE APPLICATION INCLUDE A COMPLETED "FUGITIVE EMISSION" FORM 391-CAAPP?	☒	☐	☐	☐
16)	DOES THE APPLICATION INCLUDE A COMPLIANCE ASSURANCE MONITORING PLAN (FORM 464-CAAPP) PURSUANT TO 40 CFR PART 64?	☒	☐	☐	☐
17)	HAS THE APPLICANT REGISTERED A RISK MANAGEMENT PROGRAM FOR ACCIDENTAL RELEASES PURSUANT TO SECTION 112(R) OF THE CLEAN AIR ACT AS AMENDED IN 1990 OR INTENDS TO COMPLY WITH THIS REQUIREMENT IN ACCORDANCE WITH ITS COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE?	☒	☐	☐	☐
18)	HAS THE APPLICANT SUBMITTED A FUGITIVE PARTICULATE MATTER OPERATING PROGRAM PURSUANT TO 35 IAC 212.309?	☐	☐	☒	☐
19)	HAS THE APPLICANT SUBMITTED A PM10 CONTINGENCY MEASURE PLAN PURSUANT TO 35 IAC 212.700?	☐	☐	☒	☐
20)	HAS THE APPLICANT SUBMITTED AN EPISODE ACTION PLAN PURSUANT TO 35 IAC 244.141 FOR THE FACILITIES FOR WHICH ACTION PLANS ARE REQUIRED (SEE 35 IAC 244.142)?	☒	☐	☐	☐
21a) 21b)	HAS THE APPLICANT SUBMIT A REQUEST FOR A PERMIT SHIELD FOR THE ENTIRE SOURCE? IF NO, DOES THE APPLICATION CONTAIN A REQUEST FOR A PERMIT SHIELD FOR SPECIFIC ITEMS ONLY, IN ACCORDANCE WITH THE INSTRUCTIONS FOR A CAAPP PERMIT?	☒	☐	☐	☐
22)	IF THIS IS A RENEWAL APPLICATION, WAS THE APPLICATION SUBMITTED IN A TIMELY MANNER, I.E., NOT LATER THAN 9 MONTHS BEFORE THE EXPIRATION DATE OF THE EXISTING CAAPP PERMIT PURSUANT TO SECTION 39.5(5)(N) OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT AND 35 IAC 270.301(D).	☐	☐	☒	☐

SECTION FIVE SUMMARY OF APPLICATION CONTENT CHECKLIST

	COMPLETE THE FOLLOWING TABLE, ANSWERING YES, NO, OR N/A AS APPROPRIATE. ANSWERING "NO" TO ANY OF THE BELOW, EXCEPT ITEM 34 OR 35, MAY RESULT IN THE ILLINOIS EPA REQUESTING ADDITIONAL INFORMATION, OR POSSIBLY DEEMING THE APPLICATION TO BE INCOMPLETE. IF THE APPLICANT CHOOSES TO INCORPORATE BY REFERENCE DATA PREVIOUSLY SUBMITTED, SELECT THAT COLUMN APPROPRIATLY AND INCLUDE A COMPLETED "INCORPORATION BY REFERENCE" FORM 287-CAAPP.	INFORMATION PROVIDED			INCORPORATE BY REFERENCE
		YES	NO	N/A	
23)	DOES THE APPLICATION INCLUDE AN EARLY REDUCTION DEMONSTRATION FOR HAZARDOUS AIR POLLUTANTS (HAP) PURSUANT TO SECTION 112(I)(5) OF THE CLEAN AIR ACT AS AMENDED IN 1990?	☐	☐	☒	☐
24)	DOES THE APPLICATION REQUEST TO UTILIZE THE OPERATIONAL FLEXIBILITY PROVISIONS AND INCLUDE THE INFORMATION REQUIRED FOR SUCH USE?	☒	☐	☐	☐
25)	DOES THE APPLICATION ADDRESS OTHER MODES OF OPERATION FOR WHICH A PERMIT IS BEING SOUGHT?	☒	☐	☐	☐
26)	DOES THE APPLICATION INCLUDE ALL REASONABLY ANTICIPATED OPERATING SCENARIOS FOR WHICH A PERMIT IS BEING SOUGHT?	☒	☐	☐	☐
27a) 27b)	DOES THE APPLICATION CONTAIN TRADE SECRET INFORMATION? IF YES, HAS SUCH INFORMATION BEEN MARKED AND CLAIMED, AND TWO SEPARATE COPIES OF THE APPLICATION SUITABLE FOR PUBLIC INSPECTION BEEN SUBMITTED IN ACCORDANCE WITH APPLICABLE REGULATIONS?	☐	☐	☒	☐
28a) 28b) 28c) 28d)	DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A MALFUNCTION, CONSISTENT WITH 35 IAC 201.149? DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A BREAKDOWN, CONSISTENT WITH 35 IAC 201.149? DOES THE APPLICANT HEREBY REQUEST OPERATION DURING A STARTUP, CONSISTENT WITH 35 IAC 201.149? IF YES TO ANY OF 28a-c, DOES THE APPLICATION INCLUDE INFORMATION SPECIFIED IN 35 IAC 201.261 (CONTENTS OF REQUEST FOR PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR STARTUP)?	☒	☐	☐	☐
29)	DOES THE APPLICATION INCLUDE A PROPOSED DETERMINATION OF MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY (MACT) FOR HAZARDOUS AIR POLLUTANTS PURSUANT TO SECTION 112(G) OR (J) OF THE CLEAN AIR ACT AS AMENDED IN 1990?	☐	☐	☒	☐
30)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 60 NEW SOURCE PERFORMANCE STANDARD (NSPS)?	☒	☐	☐	☐
32)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 61 NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP)?	☐	☐	☒	☐
33)	DOES THE APPLICATION ADDRESS APPLICABLE RULES AND STANDARDS OF 40 CFR 63 NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) FOR SOURCE CATEGORIES?	☒	☐	☐	☐
34)	HAS THE APPLICANT RETAINED A COPY OF THIS APPLICATION AT THE SOURCE? (NOTE: IF TRADE SECRET INFORMATION IS NOT BEING SUBMITTED, THEN ONLY THE ORIGINAL APPLICATION NEED BE INITIALLY SUBMITTED, HOWEVER, THE ILLINOIS EPA MAY REQUEST UP TO 4 COPIES OF THE FINAL APPLICATION PRIOR TO PUBLIC NOTICE.)	☒	☐	☐	☐
35)	DOES THE APPLICATION INCLUDE AN ELECTRONIC FILE OF THE APPLICATION (E.G., CD, DVD, ETC.)?	☒	☐	☐	☐

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: 

AUTHORIZED SIGNATURE

Peter DeQuattro

TYPED OR PRINTED NAME OF SIGNATORY

President and CEO

TITLE OF SIGNATORY

5 / 5 / 11

DATE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
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_____

FEE DETERMINATION FOR CAAPP PERMIT

FOR AGENCY USE ONLY

ID NUMBER:	189808AAB
PERMIT #:	11050007
DATE:	5-5-11

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THIS FORM TO DETERMINE THE PERMIT FEE ESTABLISHED BY THE CAAPP PERMIT.

2) THE EMISSION LEVELS STATED IN SECTION FOUR, WHICH ARE ONLY USED FOR THE PURPOSE OF PERMIT FEE DETERMINATION, WILL BECOME PERMIT SPECIAL CONDITIONS IN THE CAAPP PERMIT.

3) THE ILLINOIS EPA DOES NOT REQUIRE PAYMENT WITH THIS APPLICATION. WHEN YOU ARE BILLED MAKE CHECK OR MONEY ORDER PAYABLE TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEND TO THE ADDRESS AT THE TOP OF THIS FORM. **DO NOT SEND CASH.** ON THE CHECK MEMO LINE, PLEASE LIST "CAAPP OPERATING PERMIT FEE: ID NO. XXXXXXXXX", REPLACE THE Xs WITH YOUR SOURCE ID NUMBER.

SECTION THREE — FEE RATIONALE

WHAT IS THE PERMIT STATUS AT THE TIME OF THIS REQUEST? CHECK ONLY ONE BELOW.

1) ☒ INITIAL CAAPP PERMIT ☐ RENEWAL CAAPP PERMIT ☐ FESOP INITIAL/RENEWAL
☐ SIGNIFICANT MODIFICATION ☐ MINOR MODIFICATION ☐ ADMINISTRATIVE AMENDMENT

2) COMPLETE THE BELOW TABLE FOR A NON-INITIAL CAAPP PERMIT. IF THERE IS AN INCREASE/DECREASE IN EMISSIONS, ENTER THE NUMBER(S) FOR THE EMISSIONS CHANGE RATIONALE AS APPROPRIATE.

POLLUTANT	INCREASE	DECREASE	NO CHANGE	EMISSIONS CHANGE RATIONALE(S)
NITROGEN OXIDES (NOX)	☐	☐	☐	
PARTICULATE MATTER (PART)	☐	☐	☐	
SULFUR DIOXIDE (SO2)	☐	☐	☐	
VOLATILE ORGANIC MATERIAL (VOM)	☐	☐	☐	
OTHER (SPECIFY)	☐	☐	☐	
OTHER (SPECIFY)	☐	☐	☐	

CHANGE RATIONALE:
1 BUSINESS DECISION (E.G., OPERATING NEEDS, BANKRUPTCY, ETC.).
2 REMOVAL OR ADDITION OF PROCESSES AT THE SOURCE.
3 INCLUSION OR REMOVAL OF A CONTROL DEVICE.
4 CHEMICAL REFORMULATION (E.G., REFORMULATING A COATING FROM HIGH VOM TO A LOW VOM).
5 FUEL SWITCHING (E.G., COAL TO NATURAL GAS, ETC.).
6 METHODOLOGY CHANGE (E.G., SWITCHING A PETROLEUM SOLVENT TO AQUEOUS SOLUTION).
7 CHANGES IN METHOD USED FOR CALCULATIONS (E.G., EMISSION FACTOR CHANGE).
8 OTHER (DESCRIBE): _____
9 OTHER (DESCRIBE): _____

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MAY 05 2011
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 8

SECTION FOUR — FEE DATA

1) WILL THE SOURCE PAY THE CURRENT MAXIMUM FEE OF $250,000.00 PER YEAR? ☒ YES

IF YES, THE REMAINDER OF THIS FORM DOES NOT NEED TO BE COMPLETED. ☐ NO

2) EMISSION UNIT[A]	NITROGEN OXIDES (NO_X) (TONS/YR)	PARTICULATE MATTER (PART) (TONS/YR)	SULFUR DIOXIDE (SO_2) (TONS/YR)	VOLATILE ORGANIC MATERIAL (VOM) (TONS/YR)	OTHER[B] SPECIFY _____ (TONS/YR)
3) SUBTOTAL					
4) FUGITIVE					
5) TOTAL					

6) GRAND TOTAL ACROSS POLLUTANTS (TONS/YR):	
7) CALCULATED PERMIT FEE - IF GRAND TOTAL IN ITEM 6 ABOVE IS > 100 TONS/YR THEN MULTIPLY GRAND TOTAL BY $18.00 AND ENTER, OTHERWISE ENTER $1,800.00:	
8) MINIMUM PERMIT FEE IS $1,800.00 PER YEAR - MAXIMUM PERMIT FEE IS $250,000.00 PER YEAR. IF THE CALCULATED PERMIT FEE IN ITEM 7 ABOVE IS BETWEEN THESE TWO FEE AMOUNTS THEN ENTER HERE, OTHERWISE ENTER THE MINIMUM OR MAXIMUM PERMIT FEE WHICHEVER IS APPLICABLE. THIS IS THE ACTUAL ANNUAL PERMIT FEE:	$250,000.00

A EMISSION UNIT - PROVIDE THE NAME AND FLOW DIAGRAM DESIGNATION OF THE EMISSION UNIT AS IT APPEARS ON THE DATA AND INFORMATION FORM.

B OTHER - ANY HAZARDOUS AIR POLLUTANT (HAP) NOT INCLUDED ELSEWHERE. E.G., CHLORINE, HCl, ETC.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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COMPLIANCE CERTIFICATION

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

AN APPLICATION FOR A CAAPP PERMIT MUST CONTAIN A CERTIFICATION OF COMPLIANCE SIGNED BY A RESPONSIBLE OFFICIAL. THIS FORM MUST BE SUBMITTED WITH THE ORIGINAL CAAPP PERMIT APPLICATION AND UPDATED ON AN ANNUAL BASIS

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

4) CAAPP PERMIT NUMBER (IF KNOWN): 01100065

5) IS THIS THE FIRST SUBMITTAL OF THIS FORM?* ☐ YES ☒ NO

IF NO, WHAT IS THE REPORTING PERIOD COVERED BY THIS FORM? 01 / 01 / 2010 TO 05 / 05 / 2011

SOURCE COMPLIANCE INFORMATION

6) DOES THE SIGNATORY OF THIS FORM HEREBY CERTIFY THAT THE SOURCE IS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, EXPLAIN:

7) PROVIDE THE SCHEDULE FOR SUBMISSION OF COMPLIANCE CERTIFICATION DURING THE PERMIT TERM, E.G., ONCE ANNUALLY IN JANUARY (NOTE THAT SUCH CERTIFICATION MUST BE SUBMITTED NO LESS FREQUENTLY THAN ANNUALLY):

Once annually by May 1.

8) INDICATE THE COMPLIANCE STATUS OF THE SOURCE WITH ANY APPLICABLE ENHANCED MONITORING AND COMPLIANCE CERTIFICATION REQUIREMENTS OF THE CLEAN AIR ACT, E.G., NO ENHANCED MONITORING REQUIRED AND IN COMPLIANCE WITH COMPLIANCE CERTIFICATION REQUIREMENTS:

No enhanced monitoring required and in compliance with compliance certification requirements.

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Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

*Form was submitted in January 2010 with the CAAPP submittal, this form is updating that submittal.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 10

EMISSION UNITS COMPLIANCE INFORMATION

9a) THE FOLLOWING EMISSION UNITS ARE IN COMPLIANCE WITH APPLICABLE REQUIREMENTS SUCH AS EMISSION STANDARDS, EMISSION CONTROL REQUIREMENTS, EMISSION TESTING, COURT REQUIREMENTS, WORK PRACTICES, OR ENHANCED MONITORING, BASED ON THE COMPLIANCE METHODS SPECIFIED BELOW (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-1):

EMISSION UNIT	APPLICABLE RULE	COMPLIANCE DETERMINATION METHOD
EP67	35 IAC 216.121	Initial Performance Test
EP67	PSD operating requirement, 10% annual capacity limitation	Fuel usage monitoring
EP26A & C	PSD operating requirements, ULS diesel and annual operating hours limitation	Fuel supply records, engine hour meters

9b) LIST THE EMISSION UNITS THAT WERE NOT IN CONTINUOUS COMPLIANCE SINCE THE LAST REPORTING PERIOD, AND THE REASON(S) FOR NONCOMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-2.)

EMISSION UNIT	REASON(S) FOR NONCOMPLIANCE
N/A	

COMPLIANCE INFORMATION

10) SUMMARY OF METHODS USED TO DETERMINE COMPLIANCE:

a) DESCRIPTION OF TESTING METHODS USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-3):

Initial performance test for Auxiliary Boiler conducted on 4/7/11 confirming that NOx, CO, VOM, and opacity were below the required level.

10b) DESCRIPTION OF MONITORING PROCEDURES USED TO DEMONSTRATE COMPLIANCE, INCLUDING ANY ENHANCED MONITORING REQUIREMENTS OF THE ACT (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-4.):

c) DESCRIPTION OF RECORDKEEPING USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-5.):

Monthly fuel usage and hours of operation records are being kept on-site for the auxiliary boiler.

Monthly fuel usage and hours of operation records are being kept on-site for the emergency diesel fire pump and the emergency diesel backup generator.

10d) DESCRIPTION OF REPORTING USED TO DEMONSTRATE COMPLIANCE (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 296-6):

An annual emission report is submitted by May 1 of each year for the previous calendar year

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE

11) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: _____
AUTHORIZED SIGNATURE

President and CEO
TITLE OF SIGNATORY

Peter DeQuattro
TYPED OR PRINTED NAME OF SIGNATORY

5 / 5 / 11
DATE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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COMPLIANCE PLAN/ SCHEDULE OF COMPLIANCE FOR CAAPP PERMIT

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

THE CLEAN AIR ACT PERMIT PROGRAM (CAAPP) REQUIRES THAT THE APPLICANT SUBMIT A COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE FOR ALL EMISSION UNITS AT THE CAAPP SOURCE, REGARDLESS OF THE COMPLIANCE STATUS OF EACH INDIVIDUAL EMISSION UNIT. THIS FORM REQUIRES THAT THE COMPLIANCE STATUS BE STATED FOR EACH EMISSION UNIT. APPLICATION FORM 294-CAAPP, "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE - ADDENDUM FOR NON COMPLYING EMISSION UNITS," MUST BE SUBMITTED FOR EACH EMISSION UNIT NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF SUBMITTAL.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

SOURCE COMPLIANCE INFORMATION

4) DESCRIBE THE COMPLIANCE STATUS OF THE SOURCE WITH ALL APPLICABLE REQUIREMENTS (E.G., "SOURCE IS IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS"):

All emission units which have started operation are in compliance with all applicable requirements. The remaining emission units at PSGC have not started operation, as such determination of compliance is not applicable at this time.

5) IF IN COMPLIANCE, WILL THE SOURCE CONTINUE TO COMPLY WITH ALL APPLICABLE REQUIREMENTS?

☒ YES ☐ NO

IF NO, EXPLAIN:

6) WILL THE SOURCE MEET, ON A TIMELY BASIS, APPLICABLE REQUIREMENTS WHICH BECOME EFFECTIVE DURING THE PERMIT TERM?

☒ YES ☐ NO

IF NO, EXPLAIN

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
293-CAAPP Compliance Plan

EMISSION UNITS COMPLIANCE INFORMATION

7) EMISSION UNITS IN COMPLIANCE

THE FOLLOWING EMISSION UNITS ARE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AND WILL CONTINUE TO COMPLY WITH SUCH REQUIREMENTS DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-1:

DESIGNATION ID NUMBER	EMISSION UNIT
EP104	Transfer point from MC-1 to MC-2 (Activity is limited presently to construction. This unit has not commenced normal operation)
EP118A	Transfer point from MC-2 and the 6,000 ton surge pile (Activity is limited presently to construction. This unit has not commenced normal operation.)
EP67	Auxiliary Boiler
EP26A	Emergency Fire Pump Diesel Engine
EP26C	Diesel Emergency Backup Generator

EMISSION UNITS COMPLIANCE INFORMATION (cntd)

DESIGNATION ID NUMBER	EMISSION UNIT

8) EMISSION UNITS SUBJECT TO FUTURE COMPLIANCE DATES

THE FOLLOWING EMISSION UNITS, WHICH ARE CURRENTLY IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS, WILL ACHIEVE ON A TIMELY BASIS, AND MAINTAIN COMPLIANCE WITH, FUTURE COMPLIANCE DATES AS THEY BECOME APPLICABLE DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-2:

DESIGNATION ID NUMBER	EMISSION UNIT	FUTURE COMPLIANCE DATE (MONTH/DAY/YEAR)
N/A		

9a) EMISSION UNITS NOT IN COMPLIANCE - COMPLIANCE TO BE ACHIEVED PRIOR TO PERMIT ISSUANCE
THE FOLLOWING EMISSION UNITS ARE NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT APPLICATION. HOWEVER, THESE EMISSION UNITS WILL ACHIEVE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS PRIOR TO PERMIT ISSUANCE AND WILL CONTINUE TO COMPLY WITH SUCH REQUIREMENTS DURING THE PERMIT TERM. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-3:

DESIGNATION ID NUMBER	EMISSION UNIT	FUTURE COMPLIANCE DATE (MONTH/DAY/YEAR)
N/A		

b) THE FOLLOWING IS A NARRATIVE DESCRIPTION OF THE MEANS BY WHICH COMPLIANCE WILL BE ACHIEVED FOR EACH OF THE EMISSION UNITS LISTED IN 9a) ABOVE. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-4:

10) EMISSION UNITS NOT IN COMPLIANCE - COMPLIANCE WILL NOT BE ACHIEVED PRIOR TO PERMIT ISSUANCE
THE FOLLOWING EMISSION UNITS WILL NOT BE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT ISSUANCE. A FORM 294-CAAPP, "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE - ADDENDUM FOR NON COMPLYING EMISSION UNITS," MUST BE SUBMITTED FOR EMISSION UNITS NOT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS AT THE TIME OF PERMIT ISSUANCE. A FORM 294-CAAPP IS SUBMITTED FOR THE FOLLOWING EMISSION UNITS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 293-5:

DESIGNATION ID NUMBER	EMISSION UNIT	DATE COMPLIANCE SCHEDULED TO BE ACHIEVED (MONTH/DAY/YEAR)
N/A		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
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COMPLIANCE ASSURANCE MONITORING (CAM) PLAN

FOR AGENCY USE ONLY

ID NUMBER:

PERMIT #:

DATE:

FOR INFORMATION ABOUT THE CAM RULE AND THIS FORM, PLEASE REFER TO 40 CFR PART 64. ADDITIONAL INFORMATION (INCLUDING GUIDANCE DOCUMENTS) MAY ALSO BE FOUND AT http://www.epa.gov/ttn/emc/cam.html

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO.: 189808AAB

BASIS OF CAM SUBMITTAL

4) MARK THE APPROPRIATE BOX BELOW AS TO WHY THIS CAM PLAN IS BEING SUBMITTED AS PART OF AN APPLICATION FOR A CAAPP PERMIT:

☐ RENEWAL APPLICATION. ALL PSEUs (POLLUTANT-SPECIFIC EMISSIONS UNITS CONSIDERED SEPARATELY WITH RESPECT TO EACH REGULATED AIR POLLUTANT) FOR WHICH A CAM PLAN HAS NOT YET BEEN APPROVED NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL.

☒ INITIAL APPLICATION (SUBMITTED AFTER 4/20/98). ONLY LARGE PSEUs (PSEUs WITH POTENTIAL POST-CONTROL DEVICE EMISSIONS OF AN APPLICABLE REGULATED AIR POLLUTANT THAT ARE EQUAL TO OR GREATER THAN MAJOR SOURCE THRESHOLD LEVELS) NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. ONLY LARGE PSEUs BEING MODIFIED AFTER 4/20/98 NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. FOR LARGE PSEUs WITH AN APPROVED CAM PLAN, ONLY ADDRESS THE APPROPRIATE MONITORING REQUIREMENTS AFFECTED BY THE SIGNIFICANT MODIFICATION.

CAM APPLICABILITY DETERMINATION

5) TO DETERMINE APPLICABILITY, A PSEU MUST MEET ALL OF THE FOLLOWING CRITERIA. COMPLETE PAGES 2 AND 3 FOR ALL PSEUs AT THIS SOURCE. (USE THESE INDENTIFIERS TO INDICATE REASON FOR NON-APPLICABILITY IN BOX 6b, PAGE 3):

a. THE PSEU IS LOCATED AT A MAJOR SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT;

b. THE PSEU IS SUBJECT TO AN EMISSION LIMITATION OR STANDARD FOR THE APPLICABLE REGULATED AIR POLLUTANT THAT IS NOT EXEMPT;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR PART 60) OR NESHAP (40 CFR PARTS 61 AND 63) PROPOSED AFTER 11/15/1990.
- STRATOSPHERIC OZONE PROTECTION REQUIREMENTS.
- ACID RAIN PROGRAM REQUIREMENTS.
- EMISSION LIMITATIONS OR STANDARDS FOR WHICH A CAAPP PERMIT SPECIFIES A CONTINUOUS COMPLIANCE DETERMINATION METHOD, AS DEFINED IN THE CAM RULE.
- AN EMISSION CAP THAT MEETS THE REQUIREMENTS SPECIFIED IN 40 CFR 70.4(b)(12).

c. THE PSEU USES AN ADD-ON CONTROL DEVICE TO ACHIEVE COMPLIANCE WITH AN EMISSION LIMITATION OR STANDARD;

d. THE PSEU HAS POTENTIAL PRE-CONTROL DEVICE EMISSIONS OF THE APPLICABLE REGULATED AIR POLLUTANT THAT ARE EQUAL TO OR GREATER THAN MAJOR SOURCE THRESHOLD LEVELS; AND

e. THE PSEU IS NOT AN EXEMPT BACKUP UTILITY POWER EMISSIONS UNIT THAT IS MUNICIPALLY-OWNED.

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

6a) BACKGROUND DATA AND INFORMATION

COMPLETE THE FOLLOWING TABLE AND PAGES 4 AND 5 FOR **ALL** PSEUs THAT ARE SUBJECT TO CAM. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH PSEU IN ORDER TO SUPPLEMENT THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-6a**. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	[a] EMISSION LIMITATION OR STANDARD	[b] MONITORING REQUIREMENT
EU10A	PC Boiler Unit 1	PM	Dry ESP and Wet ESP	(PERMIT) 0.015 lb/MMBtu PM (PERMIT) 0.035 lb/MMBtu PM_{10}	PSD Condition 2.1.9-1(a) COMS PSD Condition 2.1.10(d) PM CEMS
EU10B	PC Boiler Unit 2	PM	Dry ESP and Wet ESP	(PERMIT) 0.015 lb/MMBtu PM (PERMIT) 0.035 lb/MMBtu PM_{10}	PSD Condition 2.1.9-1(a) COMS PSD Condition 2.1.10(d) PM CEMS
EXAMPLE COATER #1	METAL PARTS COATING LINE #1	VOM	THERMAL AFTERBURNER #1	(REG) 35 IAC 218.207(b)(1) - 81% OVERALL EMISSIONS REDUCTION (PERMIT) 24.9 TPY OF VOM	35 IAC 218.105(d)(2)(A)(i) - MONITOR AFTERBURNER COMBUSTION CHAMBER TEMPERATURE

[a] INDICATE THE EMISSION LIMITATION OR STANDARD FOR ANY APPLICABLE REQUIREMENT THAT CONSTITUTES AN EMISSION LIMITATION, EMISSION STANDARD, OR STANDARD OF PERFORMANCE. EXAMPLES OF EMISSION LIMITATIONS OR STANDARDS MAY INCLUDE PERMITTED EMISSION LIMITATIONS (**PERMIT**), APPLICABLE REGULATIONS (**REG**), WORK PRACTICES (**WP**), PROCESS OR CONTROL DEVICE PARAMETERS (**PAR**), OR OTHER FORMS OF SPECIFIC DESIGN, EQUIPMENT, OPERATIONAL, OR OPERATION AND MAINTENANCE REQUIREMENTS (**OTHER**).

[b] INDICATE THE MONITORING REQUIREMENTS FOR THE CONTROL DEVICE THAT ARE REQUIRED BY AN APPLICABLE REGULATION OR PERMIT CONDITION.

6b) BACKGROUND DATA AND INFORMATION – UNITS NOT SUBJECT TO CAM

COMPLETE THE FOLLOWING TABLE FOR ALL PSEUs THAT ARE NOT SUBJECT TO CAM. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH PSEU IN ORDER TO INDICATE THE REASON FOR NON-APPLICABILITY AND JUSTIFY THAT CAM DOES NOT APPLY. YOU MAY APPBREVIATE BY USING THE CRITERIA INDENTIFIERS FROM BOX 5 ON PAGE 1. FOR UNITS NOT SUBJECT TO CAM DUE TO EMISSION LEVELS (i.e., CRITERIA "5d"), INDICATE THE POTENTIAL PRE-CONTROL DEVICE EMISSIONS AND PROVIDE CALCULATIONS AND LABEL AS EXHIBIT 464-6b WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT. IF NECESSARY, MULTIPLE PSEUs WITH SIMIAR DATA AND INFORMATION MAY BE INCLUDED ON THE SAME LINE TO SAVE SPACE. IF ADDITIONAL SPACE IS NEEDED, ATACH AND LABEL AS **EXHIBIT 464-6b.** FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	REASON(S) FOR NON-APPLICABILITY
EU10A and EU10B	PC Boiler Unit 1 and 2	NO_X, CO, SO_2, Mercury	Low NO_X Burners, SCR, HL and PAC Injection, and WFGD Units	Does not meet criteria "5b" – Limitations on these pollutants are required by exempted emission standards
EU67	Auxiliary Boiler	NO_X	Low NO_X Burners	Does not meet criteria "5c" – does not employ an add-on control device (Control shown is passive and does not qualify as an add-on control)
CT01 and CT02	Cooling Towers	PM	Drift Eliminators	Does not meet criteria "5c" – does not employ an add-on control device (Control shown is passive and does not qualify as an add-on control)
Coal Handling and Processing Equipment	All conveyors, transfer points, crushers, screening facilities, etc. for coal	PM	Dust Suppression Spray, Enclosures, Dust Collectors, and Fogging	Does not meet criteria "5d" – does not have pre-control emissions greater than the major source threshold
Limestone Handling Systems	Limestone Unloading and Transfer Points	PM	Dust Collectors and Bin Vent Filters	Does not meet criteria "5d" – does not have pre-control emissions greater than the major source threshold
HL, PAC, Soda Ash, Quick Lime, and Fly Ash Storage	Hydrated Lime, Powder Activated Carbon, Soda Ash, Quick Lime, and Fly Ash Silos	PM	Bin Vent Filters	Does not meet criteria "5d" – does not have pre-control emissions greater than the major source threshold
Haul Roads	Specific routes on which material is brought on site by trucks	PM	Paved Roads and Dust Control	Does not meet criteria "5d" – does not have pre-control emissions greater than the major source threshold
Material Storage	Active and Inactive Coal Piles, Active and Inactive Limestone Piles	PM	Moisture or Surfactant	Does not meet criteria "5d" – does not have pre-control emissions greater than the major source threshold
EXAMPLE COATER #1	METAL PARTS COATING LINE #1	VOM	THERMAL AFTERBURNER #1	DOES NOT MEET CRITERIA "5d" (PRE-CONTROL PTE IS 15 TONS PER YEAR). SEE EXHIBIT 464-6b FOR PRE-CONSTRUCTION PTE CALCULATION

[a] CAM MONITORING APPROACH CRITERIA			
COMPLETE THIS SECTION FOR **EACH** PSEU THAT NEEDS TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE MONITORING DATA AND INFORMATION FOR EACH INDICATOR SELECTED FOR EACH PSEU IN ORDER TO MEET THE MONITORING DESIGN CRITERIA SPECIFIED IN 40 CFR 64.3 AND 64.4. IF MORE THAN TWO INDICATORS ARE BEING SELECTED FOR A PSEU OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-8** WITH THE APPROPRIATE PSEU DESIGNATION, POLLUTANT, AND INDICATOR NOs. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.			
7a) PSEU DESIGNATION: EU10A	7b) POLLUTANT: PM	7c) [b] INDICATOR NO. 1: See Exhibit 464-CEMS, COMS, PEMS	7d) [b] INDICATOR NO. 2:
8a) GENERAL CRITERIA DESCRIBE THE MONITORING APPROACH USED TO MEASURE THE INDICATORS:		40 CFR 60, Appendix B, Performance Specification 11 speaks to these requirements	
[c] ESTABLISH THE APPROPRIATE INDICATOR RANGE OR THE PROCEDURES FOR ESTABLISHING THE INDICATOR RANGE WHICH PROVIDES A REASONABLE ASSURANCE OF COMPLIANCE:			
[d] PROVIDE QUALITY IMPROVEMENT PLAN (QIP) THRESHOLD LEVELS:			
8b) PERFORMANCE CRITERIA PROVIDE THE SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, SUCH AS DETECTOR LOCATION AND INSTALLATION SPECIFICATIONS:		40 CFR 60, Appendix B, Performance Specification 11 speaks to these requirements	
PROVIDE VERIFICATION PROCEDURES, INCLUDING MANUFACTURER'S RECOMMENDATIONS, TO CONFIRM THE OPERATIONAL STATUS OF THE MONITORING:			
PROVIDE QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES THAT ARE ADEQUATE TO ENSURE THE CONTINUING VALIDITY OF THE DATA, CONSIDERING MANUFACTURER'S RECOMMENDATIONS			
[e] PROVIDE THE MONITORING FREQUENCY:			
PROVIDE THE DATA COLLECTION PROCEDURES THAT WILL BE USED:			
PROVIDE THE DATA AVERAGING PERIOD FOR THE PURPOSE OF DETERMINING WHETHER AN EXCURSION OR EXCEEDANCE HAS OCCURRED:			

[a] IF CEMS, COMS, OR PEMS ARE USED, THEN THIS SECTION NEED NOT BE COMPLETED **ONLY** FOR THE CEMS, COMS, OR PEMS, EXCEPT THAT THE SPECIAL CRITERIA INFORMATION OF 40 CFR 64.3(d) MUST BE PROVIDED AS **EXHIBIT 464-CEMS, COMS, PEMS**.

[b] DESCRIBE ALL INDICATORS TO BE MONITORED WHICH SATISFIES 40 CFR 64.3(a). INDICATORS OF EMISSION CONTROL PERFORMANCE FOR THE CONTROL DEVICE AND ASSOCIATED CAPTURE SYSTEM MAY INCLUDE MEASURED OR PREDICTED EMISSIONS (INCLUDING VISIBLE EMISSIONS OR OPACITY), PROCESS AND CONTROL DEVICE OPERATING PARAMETERS THAT AFFECT CONTROL DEVICE (AND CAPTURE SYSTEM) EFFICIENCY OR EMISSION RATES, OR RECORDED FINDINGS OF INSPECTION AND MAINTENANCE ACTIVITIES.

[c] INDICATOR RANGES MAY BE BASED ON A SINGLE MAXIMUM OR MINIMUM VALUE OR AT MULTIPLE LEVELS THAT ARE RELEVANT TO DISTINCTLY DIFFERENT OPERATING CONDITIONS, EXPRESSED AS A FUNCTION OF PROCESS VARIABLES, EXPRESSED AS MAINTAINING THE APPLICABLE INDICATOR IN A PARTICULAR OPERATIONAL STATUS OR DESIGNATED CONDITION, OR ESTABLISHED AS INTERDEPENDENT BETWEEN MORE THAN ONE INDICATOR.

[d] THE QIP THRESHOLD LEVEL IS A LEVEL AT WHICH THE TOTAL DURATION OF EXCURSIONS OR EXCEEDANCES AT THE PSEU IS GREATER THAN 5% OF THE PSEU'S TOTAL OPERATING TIME DURING THE REPORTING PERIOD. (EXAMPLE: 5 OF 90 OPERATING DAYS WERE OUTSIDE THE INDICATOR RANGE DURING THE REPORTING PERIOD.)

[e] AT A MINIMUM, LARGE PSEUs MUST COLLECT FOUR OR MORE DATA VALUES EQUALLY SPACED OVER EACH HOUR AND THOSE VALUES AVERAGED. ALL OTHER PSEUs MUST COLLECT DATA AT LEAST ONCE PER 24-HOUR PERIOD.

[a] CAM MONITORING APPROACH CRITERIA

COMPLETE THIS SECTION FOR EACH PSEU THAT NEEDS TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE MONITORING DATA AND INFORMATION FOR EACH INDICATOR SELECTED FOR EACH PSEU IN ORDER TO MEET THE MONITORING DESIGN CRITERIA SPECIFIED IN 40 CFR 64.3 AND 64.4. IF MORE THAN TWO INDICATORS ARE BEING SELECTED FOR A PSEU OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-8** WITH THE APPROPRIATE PSEU DESIGNATION, POLLUTANT, AND INDICATOR NOs. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

7a) PSEU DESIGNATION:	7b) POLLUTANT:	7c) [b] INDICATOR NO. 1:	7d) [b] INDICATOR NO. 2:
EU10B	PM	See Exhibit 464-CEMS, COMS, PEMS	
8a) GENERAL CRITERIA DESCRIBE THE MONITORING APPROACH USED TO MEASURE THE INDICATORS:		40 CFR 60, Appendix B, Performance Specification 11 speaks to these requirements	
[c] ESTABLISH THE APPROPRIATE INDICATOR RANGE OR THE PROCEDURES FOR ESTABLISHING THE INDICATOR RANGE WHICH PROVIDES A REASONABLE ASSURANCE OF COMPLIANCE:			
[d] PROVIDE QUALITY IMPROVEMENT PLAN (QIP) THRESHOLD LEVELS:			
8b) PERFORMANCE CRITERIA PROVIDE THE SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, SUCH AS DETECTOR LOCATION AND INSTALLATION SPECIFICATIONS:		40 CFR 60, Appendix B, Performance Specification 11 speaks to these requirements	
PROVIDE VERIFICATION PROCEDURES, INCLUDING MANUFACTURER'S RECOMMENDATIONS, TO CONFIRM THE OPERATIONAL STATUS OF THE MONITORING:			
PROVIDE QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES THAT ARE ADEQUATE TO ENSURE THE CONTINUING VALIDITY OF THE DATA, CONSIDERING MANUFACTURER'S RECOMMENDATIONS:			
[e] PROVIDE THE MONITORING FREQUENCY:			
PROVIDE THE DATA COLLECTION PROCEDURES THAT WILL BE USED:			
PROVIDE THE DATA AVERAGING PERIOD FOR THE PURPOSE OF DETERMINING WHETHER AN EXCURSION OR EXCEEDANCE HAS OCCURRED:			

[a] IF CEMS, COMS, OR PEMS ARE USED, THEN THIS SECTION NEED NOT BE COMPLETED **ONLY** FOR THE CEMS, COMS, OR PEMS, EXCEPT THAT THE SPECIAL CRITERIA INFORMATION OF 40 CFR 64.3(d) MUST BE PROVIDED AS **EXHIBIT 464-CEMS, COMS, PEMS**.

[b] DESCRIBE ALL INDICATORS TO BE MONITORED WHICH SATISFIES 40 CFR 64.3(a). INDICATORS OF EMISSION CONTROL PERFORMANCE FOR THE CONTROL DEVICE AND ASSOCIATED CAPTURE SYSTEM MAY INCLUDE MEASURED OR PREDICTED EMISSIONS (INCLUDING VISIBLE EMISSIONS OR OPACITY), PROCESS AND CONTROL DEVICE OPERATING PARAMETERS THAT AFFECT CONTROL DEVICE (AND CAPTURE SYSTEM) EFFICIENCY OR EMISSION RATES, OR RECORDED FINDINGS OF INSPECTION AND MAINTENANCE ACTIVITIES.

[c] INDICATOR RANGES MAY BE BASED ON A SINGLE MAXIMUM OR MINIMUM VALUE OR AT MULTIPLE LEVELS THAT ARE RELEVANT TO DISTINCTLY DIFFERENT OPERATING CONDITIONS, EXPRESSED AS A FUNCTION OF PROCESS VARIABLES, EXPRESSED AS MAINTAINING THE APPLICABLE INDICATOR IN A PARTICULAR OPERATIONAL STATUS OR DESIGNATED CONDITION, OR ESTABLISHED AS INTERDEPENDENT BETWEEN MORE THAN ONE INDICATOR.

[d] THE QIP THRESHOLD LEVEL IS A LEVEL AT WHICH THE TOTAL DURATION OF EXCURSIONS OR EXCEEDANCES AT THE PSEU IS GREATER THAN 5% OF THE PSEU'S TOTAL OPERATING TIME DURING THE REPORTING PERIOD. (EXAMPLE: 5 OF 90 OPERATING DAYS WERE OUTSIDE THE INDICATOR RANGE DURING THE REPORTING PERIOD.)

[e] AT A MINIMUM, LARGE PSEUs MUST COLLECT FOUR OR MORE DATA VALUES EQUALLY SPACED OVER EACH HOUR AND THOSE VALUES AVERAGED. ALL OTHER PSEUs MUST COLLECT DATA AT LEAST ONCE PER 24-HOUR PERIOD.

RATIONALE AND JUSTIFICATION

COMPLETE THIS SECTION FOR EACH PSEU THAT NEEDS TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF EACH INDICATOR AND MONITORING APPROACH AND EACH INDICATOR RANGE IN ORDER TO MEET THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED

9a) PSEU DESIGNATION:	9b) POLLUTANT:
EU10A	PM

10) INDICATORS AND THE MONITORING APPROACH. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATORS AND THE MONITORING APPROACH USED TO MEASURE THE INDICATORS. ALSO PROVIDE ANY DATA SUPPORTING THE RATIONALE AND JUSTIFICATION. EXPLAIN THE REASONS FOR ANY DIFFERENCES BETWEEN THE VERIFICATION OF OPERATIONAL STATUS OR THE QUALITY ASSURANCE AND CONTROL PRACTICES PROPOSED AND THE MANUFACTURER'S RECOMMENDATIONS (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-10** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

Particulate matter emissions will be monitored by a PM CEMS. If the Dry and Wet ESPs are not functioning properly such that increased PM is emitted, the PM CEMS will notice the higher emission rate. A continuous emissions monitor is required by PSGC's PSD permit (01100065) in Section 2.1.10(d)(i) to satisfy CAM.

11) INDICATOR RANGES. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATOR RANGES. THE RATIONALE AND JUSTIFICATION SHALL INDICATE HOW **EACH** INDICATOR RANGE WAS SELECTED BY EITHER A COMPLIANCE OR PERFORMANCE TEST, A TEST PLAN AND SCHEDULE, OR BY ENGINEERING ASSESSMENTS. DEPENDING ON WHICH METHOD IS BEING USED FOR EACH INDICATOR RANGE, INCLUDE THE SPECIFIC INFORMATION REQUIRED BELOW FOR THAT SPECIFIC INDICATOR RANGE. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-11** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

- COMPLIANCE OR PERFORMANCE TEST (INDICATOR RANGES DETERMINED FROM CONTROL DEVICE OPERATING PARAMETER DATA OBTAINED DURING A COMPLIANCE OR PERFORMANCE TEST CONDUCTED UNDER REGULATORY SPECIFIED CONDITIONS OR UNDER CONDITIONS REPRESENTATIVE OF MAXIMUM POTENTIAL EMISSIONS UNDER ANTICIPATED OPERATING CONDITIONS. SUCH DATA MAY BE SUPPLEMENTED BY ENGINEERING ASSESSMENTS AND MANUFACTURER'S RECOMMENDATIONS). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE A SUMMARY OF THE COMPLIANCE OR PERFORMANCE TEST RESULTS THAT WAS USED TO DETERMINE THE INDICATOR RANGE AND DOCUMENTATION INDICATING THAT NO CHANGES HAVE TAKEN PLACE THAT COULD RESULT IN A SIGNIFICANT CHANGE IN THE CONTROL SYSTEM PERFORMANCE OR THE SELECTED INDICATOR RANGES SINCE THE COMPLIANCE OR PERFORMANCE TEST WAS CONDUCTED.
- TEST PLAN AND SCHEDULE (INDICATOR RANGES WILL BE DETERMINED FROM A PROPOSED IMPLEMENTATION PLAN AND SCHEDULE FOR INSTALLING, TESTING, AND PERFORMING ANY OTHER APPROPRIATE ACTIVITIES PRIOR TO USE OF THE MONITORING). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE THE PROPOSED IMPLEMENTATION PLAN AND SCHEDULE THAT WILL PROVIDE FOR USE OF THE MONITORING AS EXPEDITIOUSLY AS PRACTICABLE AFTER APPROVAL OF THIS CAM PLAN, BUT IN NO CASE SHALL THE SCHEDULE FOR COMPLETING INSTALLATION AND BEGINNING OPERATION OF THE MONITORING EXCEED 180 DAYS AFTER APPROVAL.
- ENGINEERING ASSESSMENTS (INDICATOR RANGES OR THE PROCEDURES FOR ESTABLISHING INDICATOR RANGES ARE DETERMINED FROM ENGINEERING ASSESSMENTS AND OTHER DATA, SUCH AS MANUFACTURERS' DESIGN CRITERIA AND HISTORICAL MONITORING DATA, BECAUSE FACTORS SPECIFIC TO THE TYPE OF MONITORING, CONTROL DEVICE, OR PSEU MAKE COMPLIANCE OR PERFORMANCE TESTING UNNECESSARY). THE RATIONALE AND JUSTIFICAITON SHALL INCLUDE DOCUMENTATION DEMONSTRATING THAT COMPLIANCE TESTING IS NOT REQUIRED TO ESTABLISH THE INDICATOR RANGE.

RATIONALE AND JUSTIFICATION:

The indicator range (in accordance with Performance Specification 11 of 40 CFR 60, Appendix B) will be determined based on the most recent PM compliance stack test data. The range will be updated after each compliance test. To determine the range, real data from the CEMS will be used and compared against the PM standards from the PSD permit and the issued CAAPP permit.

RATIONALE AND JUSTIFICATION

COMPLETE THIS SECTION FOR **EACH** PSEU THAT NEEDS TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF EACH INDICATOR AND MONITORING APPROACH AND EACH INDICATOR RANGE IN ORDER TO MEET THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

9a) PSEU DESIGNATION:	9b) POLLUTANT:
EU10B	PM

10) INDICATORS AND THE MONITORING APPROACH. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATORS AND THE MONITORING APPROACH USED TO MEASURE THE INDICATORS. ALSO PROVIDE ANY DATA SUPPORTING THE RATIONALE AND JUSTIFICATION. EXPLAIN THE REASONS FOR ANY DIFFERENCES BETWEEN THE VERIFICATION OF OPERATIONAL STATUS OR THE QUALITY ASSURANCE AND CONTROL PRACTICES PROPOSED AND THE MANUFACTURER'S RECOMMENDATIONS. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-10** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

Particulate matter emissions will be monitored by a PM CEMS. If the Dry and Wet ESPs are not functioning properly such that increased PM is emitted, the PM CEMS will notice the higher emission rate. A continuous emissions monitor is required by PSGC's PSD permit (01100065) in Section 2.1.10(d)(i) to satisfy CAM.

11) INDICATOR RANGES. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATOR RANGES. THE RATIONALE AND JUSTIFICATION SHALL INDICATE HOW **EACH** INDICATOR RANGE WAS SELECTED BY EITHER A COMPLIANCE OR PERFORMANCE TEST, A TEST PLAN AND SCHEDULE, OR BY ENGINEERING ASSESSMENTS. DEPENDING ON WHICH METHOD IS BEING USED FOR EACH INDICATOR RANGE, INCLUDE THE SPECIFIC INFORMATION REQUIRED BELOW FOR THAT SPECIFIC INDICATOR RANGE. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-11** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

- COMPLIANCE OR PERFORMANCE TEST (INDICATOR RANGES DETERMINED FROM CONTROL DEVICE OPERATING PARAMETER DATA OBTAINED DURING A COMPLIANCE OR PERFORMANCE TEST CONDUCTED UNDER REGULATORY SPECIFIED CONDITIONS OR UNDER CONDITIONS REPRESENTATIVE OF MAXIMUM POTENTIAL EMISSIONS UNDER ANTICIPATED OPERATING CONDITIONS. SUCH DATA MAY BE SUPPLEMENTED BY ENGINEERING ASSESSMENTS AND MANUFACTURER'S RECOMMENDATIONS). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE A SUMMARY OF THE COMPLIANCE OR PERFORMANCE TEST RESULTS THAT WAS USED TO DETERMINE THE INDICATOR RANGE AND DOCUMENTATION INDICATING THAT NO CHANGES HAVE TAKEN PLACE THAT COULD RESULT IN A SIGNIFICANT CHANGE IN THE CONTROL SYSTEM PERFORMANCE OR THE SELECTED INDICATOR RANGES SINCE THE COMPLIANCE OR PERFORMANCE TEST WAS CONDUCTED.
- TEST PLAN AND SCHEDULE (INDICATOR RANGES WILL BE DETERMINED FROM A PROPOSED IMPLEMENTATION PLAN AND SCHEDULE FOR INSTALLING, TESTING, AND PERFORMING ANY OTHER APPROPRIATE ACTIVITIES PRIOR TO USE OF THE MONITORING). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE THE PROPOSED IMPLEMENTATION PLAN AND SCHEDULE THAT WILL PROVIDE FOR USE OF THE MONITORING AS EXPEDITIOUSLY AS PRACTICABLE AFTER APPROVAL OF THIS CAM PLAN, BUT IN NO CASE SHALL THE SCHEDULE FOR COMPLETING INSTALLATION AND BEGINNING OPERATION OF THE MONITORING EXCEED 180 DAYS AFTER APPROVAL.
- ENGINEERING ASSESSMENTS (INDICATOR RANGES OR THE PROCEDURES FOR ESTABLISHING INDICATOR RANGES ARE DETERMINED FROM ENGINEERING ASSESSMENTS AND OTHER DATA, SUCH AS MANUFACTURERS' DESIGN CRITERIA AND HISTORICAL MONITORING DATA, BECAUSE FACTORS SPECIFIC TO THE TYPE OF MONITORING, CONTROL DEVICE, OR PSEU MAKE COMPLIANCE OR PERFORMANCE TESTING UNNECESSARY). THE RATIONALE AND JUSTIFICAITON SHALL INCLUDE DOCUMENTATION DEMONSTRATING THAT COMPLIANCE TESTING IS NOT REQUIRED TO ESTABLISH THE INDICATOR RANGE.

RATIONALE AND JUSTIFICATION:

The indicator range (in accordance with Performance Specification 11 of 40 CFR 60, Appendix B) will be determined based on the most recent PM compliance stack test data. The range will be updated after each compliance test. To determine the range, real data from the CEMS will be used and compared against the PM standards from the PSD permit and the issued CAAPP permit.

Exhibit 464-CEMS, COMS, PEMS

40 CFR 64.3(d) Special criteria for the use of continuous emission, opacity or predictive monitoring systems.

(1) If a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS) or predictive emission monitoring system (PEMS) is required pursuant to other authority under the Act or state or local law, the owner or operator shall use such system to satisfy the requirements of this part.

A PM CEMS and COMS is required to be installed on the Unit 1 (EU10A) and Unit 2 (EU10B) pursuant to Condition 2.1.10(d)(i) and Condition 2.1.9-1(a)(i) of the PSD Permit (01100065). As such the PM CEMS and COMS will be used to satisfy the requirements of CAM for EU10A and EU10B and associated controls.

(2) The use of a CEMS, COMS, or PEMS that satisfies any of the following monitoring requirements shall be deemed to satisfy the general design criteria in paragraphs (a) and (b) of this section, provided that a COMS may be subject to the criteria for establishing indicator ranges under paragraph (a) of this section:

- *(i) Section 51.214 and appendix P of part 51 of this chapter;*
- *(ii) Section 60.13 and appendix B of part 60 of this chapter;*
- *(iii) Section 63.8 and any applicable performance specifications required pursuant to the applicable subpart of part 63 of this chapter;*
- *(iv) Part 75 of this chapter;*
- *(v) Subpart H and appendix IX of part 266 of this chapter; or*
- *(vi) If an applicable requirement does not otherwise require compliance with the requirements listed in the preceding paragraphs (d)(2)(i) through (v) of this section, comparable requirements and specifications established by the permitting authority.*

The COMS is required by 40 CFR Part 75 (Acid Rain Program) and by 40 CFR Part 60 (New Source Performance Standards). Therefore, the COMS is deemed to satisfy the general design criteria in 40 CFR 64.3(a) and (b).

(3) The owner or operator shall design the monitoring system subject to this paragraph (d) to:

- *(i) Allow for reporting of exceedances (or excursions if applicable to a COMS used to assure compliance with a particulate matter standard), consistent with any period for reporting of exceedances in an underlying requirement. If an underlying requirement does not contain a provision for establishing an averaging period for the reporting of exceedances or excursions, the criteria used to develop an averaging period in (b)(4) of this section shall apply; and*

Pursuant to the PSGC PSD permit condition 2.1.2.b.i, the PM limits are applied in three hour block averages, and compliance is determined by stack testing. Also, pursuant to 35 IAC 212.108(a)(3), PM emissions shall be measured by Method 5, 40 CFR 60, Appendix A. Method 5 specifies that results shall be averaged over a minimum of three 60-minute tests. As such, PSGC believes that the underlying averaging period for the applicable PM limit of 35 IAC 212 is three hours.

- *(ii) Provide an indicator range consistent with paragraph (a) of this section for a COMS used to assure compliance with a particulate matter standard. If an opacity standard applies to the pollutant-specific emissions unit, such limit may be used as the appropriate indicator range unless the opacity limit fails to meet the criteria in paragraph (a) of this section after considering the type of control device and other site-specific factors applicable to the pollutant-specific emissions unit.*

PSGC will measure PM directly by using the PM CEMS.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

REQUEST FOR A TITLE 1 INCORPORATION INTO THE CAAPP: T1, T1 REVISED (T1R), T1 NEW (T1N)	*FOR AGENCY USE ONLY*
	ID NO.:
	PERMIT NO.:
	DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THE FOLLOWING FORM WHEN REQUESTING TO INCORPORATE EXISTING TITLE 1 REQUIREMENTS INTO THE CAAPP PERMIT, TO REVISE EXISTING TITLE 1 REQUIREMENTS IN THE CAAPP PERMIT, OR TO ESTABLISH NEW TITLE 1 REQUIREMENTS IN THE CAAPP PERMIT.

2) ATTACH A COPY OF THE PERMIT THAT IS REQUESTED TO BE INCORPORATED.

3) REFER TO 283-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE — PERMITEE'S REQUESTS

WHAT ARE YOU REQUESTING TO INCORPORATE INTO THE CAAPP PERMIT:

CURRENT TITLE I REQUIREMENTS (*NO CHANGES IN THE CURRENTLY ESTABLISHED T1 PERMIT CONDITIONS*).	☒
TO REVISE EXISTING TITLE 1 CONDITIONS IN THE CURRENT CAAPP PERMIT (*T1R REQUEST*).	☐
TO ESTABLISH NEW TITLE 1 CONDITIONS IN THE CURRENT CAAPP PERMIT (*T1N REQUEST*). (E.G., CAN BE USED FOR EMISSION UNITS THAT DID NOT PREVIOUSLY RECEIVE A CONSTRUCTION PERMIT)	☐

CERTIFICATION STATEMENT

BY THIS FORM, THE AUTHORIZED REPRESENTATIVE OF THE ABOVE REFERENCED SOURCE REQUESTS THAT THE ILLINOIS EPA CONSIDER THE PENDING CAAPP APPLICATION TO BE A JOINT TITLE I/TITLE V CAAPP PERMIT APPLICATION. THE INFORMATION CONTAINED IN THE CAAPP APPLICATION IS THE CURRENT AND ACCURATE INFORMATION FOR THE SOURCE.

IN CASES WHERE THE REQUEST FOR A NEW EMISSION LIMIT OR AN EMISSION LIMIT GREATER THAN THAT IN AN EXISTING PERMIT, A COMPLETED APPLICABLE RULES ANALYSIS HAS BEEN COMPLETED ON PAGE 3 WHICH ADDRESSES THE APPLICABILITY, AND COMPLIANCE WHERE DETERMINED APPLICABLE, OF RELEVANT TITLE I PROVISION. SPECIAL EXPLANATORY EMPHASIS SHALL BE PLACED ON 40 CFR 52.21 - FEDERAL PREVENTION OF SIGNIFICANT DETERIORATION (PSD) AND 35 ILL. ADM. CODE PART 203 - MAJOR STATIONARY SOURCES CONSTRUCTION AND MODIFICATION.

IN ADDITION, WE THE PERMITTEE AGREE TO WAIVE THE TIME FRAMES CONTAINED IN SECTION 39 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT FOR PROCESSING OF THE TITLE I PERMIT, AND AGREE THAT ILLINOIS EPA MAY PROCESS THIS REQUEST FOR A COMBINED TITLE I/TITLE V CAAPP PERMIT WITHIN THE TIME FRAMES REQUIRED FOR CAAPP PERMIT ISSUANCE.

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: _____ (AUTHORIZED SIGNATURE)

President and CEO (TITLE OF SIGNATORY)

Peter DeQuattro (TYPED OR PRINTED NAME OF SIGNATORY)

5 / 5 / 11 (DATE)

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION, MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

SECTION FOUR — TITLE 1 (T1) INCORPORATION LISTING

REQUEST NO.	PERMIT NO.	INCORPORATE ALL OF THE REQUIREMENTS FOR THIS PERMIT NO. IN THE CAAPP	INCORPORATE INTO THE CAAPP ALL OF THE REQUIREMENTS FROM THIS PERMIT NO. EXCEPT THE FOLLOWING SPECIFIC CONDITIONS.				PROVIDE RATIONALE FOR NOT REQUESTING THE INCORPORATION OF THE SPECIFIC CONDITIONS
				CONDITION:	CONDITION:	CONDITION:	
1	01100065	☒ YES ☐ NO	☐ YES ☐ NO	PAGE:	PAGE:	PAGE:	
				CONDITION:	CONDITION:	CONDITION:	
2	08010051	☒ YES ☐ NO	☐ YES ☐ NO	PAGE:	PAGE:	PAGE:	
				CONDITION:	CONDITION:	CONDITION:	
3		☐ YES ☐ NO	☐ YES ☐ NO	PAGE:	PAGE:	PAGE:	
				CONDITION:	CONDITION:	CONDITION:	
4		☐ YES ☐ NO	☐ YES ☐ NO	PAGE:	PAGE:	PAGE:	

SECTION FIVE — TITLE 1 REVISED (T1R) OR TITLE 1 NEW (T1N) INCORPORATION REQUEST LISTING

REQUEST NO.	PERMIT NO.	CONDITION NO. AND PAGE NO.	T1R OR T1N	CONDITION TYPE [A]	REQUESTED CHANGE OR ADDITION. BE SPECIFIC, ATTACHING ADDITIONAL PAGES AS NECESSARY.	REASON [B]	FURTHER EXPLANATION FOR REQUEST IF NECESSARY
1	N/A	CONDITION: / PAGE:	☐ T1R ☐ T1N	☐ 1 ☐ 2 ☐ 3			
2		CONDITION: / PAGE:	☐ T1R ☐ T1N	☐ 1 ☐ 2 ☐ 3			

A CHOOSE ONE OF THE FOLLOWING: 1) NATURAL MINOR, 2) PSD/NSR AVOIDANCE, 3) PSD/NSR.

B CHOOSE OF THE FOLLOWING REASONS AND BRIEFLY EXPLAIN IF NECESSARY: 1) BUSINESS DECISION (OPERATING NEEDS, ETC.); 2) REMOVAL OR ADDITION OF PROCESSES AT THE SOURCE; 3) INCLUSION OR REMOVAL OF A CONTROL DEVICE; 4) CHEMICAL REFORMULATION (E.G., SWITCHING A PETROLEUM BASED TO A WATER BASED COATING); 5) FUEL SWITCHING (E.G., COAL TO NATURAL GAS, ETC.); 6) METHODOLOGY CHANGE (E.G., SWITCHING A PETOLEUM SOLVENT TO AQUEOUS SOLUTION); 7) CHANGES IN THE EMISSION FACTOR(S) USED FOR CALCULATIONS, OR 8) OTHER (EXPLAIN)

SECTION SIX APPLICABLE RULES REVIEW FOR T1R OR T1N REQUESTS (COMPLETE FOR EACH T1R OR T1N)

EMISSION UNIT DESIGNATION AFFECTED BY T1R OR T1N REQUEST:

1) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A		

2) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
N/A		

3) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
N/A		

4) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
N/A		

NOTE: THE SOURCE WILL ALSO NEED TO PROVIDE A "REQUEST FOR PERIODIC MONITORING" FORM CAAPP-281.

5) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
N/A		

217/782-2113

CONSTRUCTION PERMIT - PSD APPROVAL
NSPS-NESHAP EMISSION UNITS

PERMITTEE

Prairie State Generating Company, LLC
Attn: Dianna Tickner, President
701 Market Street, Suite 781
St. Louis, Missouri 63010

Application No.: 01100065 I.D. No.: 189808AAB
Applicant's Designation: Date Received: October 19,2001
Subject: Electricity Generation Facility
Date Issued: April 28, 2005
Location: Southwest Corner of Marigold Road, Off of Washington County Highway 12, Approximately 5 Miles East Northeast of Marissa

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission sources and air pollution control equipment consisting of a mine-mouth coal-fired power plant with two power boilers, cooling towers, fuel handling and storage, limestone handling and storage, ash handling and storage, auxiliary gas-fired boiler, and ancillary operations, as described in the above referenced application. This Permit is granted based upon and subject to the findings and conditions that follow.

In conjunction with this permit, approval is given with respect to the federal regulations for Prevention of Significant Deterioration of Air Quality (PSD) for the plant, as described in the application, in that the Illinois Environmental Protection Agency (Illinois EPA) finds that the application fulfills all applicable requirements of 40 CFR 52.21. This approval is issued pursuant to the federal Clean Air Act, the federal regulations promulgated thereunder at 40 CFR 52.21 for the PSD program, and a Delegation of Authority agreement between the United States Environmental Protection Agency (USEPA) and the Illinois EPA for the administration of the PSD Program. This approval becomes effective on June 8, 2005, as authorized by the provisions of 40 CFR 124.15, unless a petition for review is filed in accordance with provisions of 40 CFR 124.19. For purposes of any appeal petition that may be filed, the 30 day period for requesting review begins on May 9, 2005. This approval is based upon the findings that follow. This approval is subject to the following conditions. This approval is also subject to the general requirement that the plant be developed and operated consistent with the specifications and data included in the application and any significant departure from the terms expressed in the application, if not otherwise authorized by this permit, must receive prior written authorization from the Illinois EPA.

If you have any questions on this permit, please call Shashi Shah at 217/782-2113 (TDD 217/782-9143).

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:SRS:jar

cc: Region 3
USEPA Region V

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INTRODUCTION: FINDINGS

1a. Prairie State Generating Company, LLC (Prairie State) has requested a permit for a mine-mouth coal fired power plant with a nominal capacity of 1500 MW_e net. The proposed plant would have two identical pulverized coal boilers equipped with low-NO_x burners, selective catalytic reduction (SCR), electrostatic precipitator (ESP), wet flue gas desulfurization (WFGD) and wet electrostatic precipitator (WESP). Other emission units would include: fuel handling and storage, ash handling and storage, limestone handling and storage, cooling towers, and an auxiliary boiler at the power plant facility; coal handling operations at the new underground coal mine; and ancillary operations.

b. The boilers, which each would have a maximum rated capacity of about 7,450 million Btu/hour, would be fired on coal as their primary fuel, with natural gas used as the startup fuel. The boilers would be designed for raw Illinois No. 6 coal from a new underground mine to be developed adjacent to the boiler complex. The design coal supply would nominally have 4.0 percent sulfur by weight and 8,780 Btu per pound as received at the power plant facility, following routine preparation to separate rock from the coal fuel. As part of its review of the application, the Illinois EPA considered requiring washing of this coal as a means to specifically reduce its sulfur content. The Illinois EPA determined that for mine-mouth coal, any benefits of coal washing would be outweighed by the adverse environmental, energy and economic impacts associated with coal washing and storage of associated coal waste. To address potential interruptions in the mine-mouth coal supply and facilitate reliable operation of the power plant, the boilers would also be allowed to use Illinois No. 6 coal and Illinois No. 5 coal (which is similar to the mine-mouth coal) from other mines. Because the source(s) of this coal are not specified, e.g., the coal could be obtained from mines that already have a washing facility and that are some distance from the plant, the analyses and evaluation performed for coal washing at the proposed plant are not applicable for the use of such non-mine-mouth coals. Accordingly, coal for the boilers, other than mine-mouth coal, is required to be washed.

2. The plant would be located in rural Washington County. The site is in an area that is currently designated attainment for all criteria pollutants.

3. The proposed plant is a major source under the PSD rules. This is because the boilers would have potential annual emissions of sulfur dioxide (SO_2), nitrogen oxides (NO_x), particulate matter (PM) as PM_{10}, carbon monoxide (CO), volatile organic material (VOM) and sulfuric acid mist, that are in excess of 100 tons. (Refer to Table I for the potential emissions of the boilers.)

4. The proposed plant is a major source for emissions of hazardous air pollutants (HAPs). The potential emissions from the plant will be greater than 10 tons of an individual HAP, i.e., hydrogen chloride and hydrogen fluoride, and more than 25 tons in aggregate for a combination of HAPs. Therefore, the plant is being subjected to review under Section 112(g) of the federal Clean Air Act.

5a. After reviewing the materials submitted by Prairie State, the Illinois EPA has determined that the project will (i) comply with applicable Pollution Control Board (Board) emission standards, (ii) comply with applicable federal emission standards, (iii) utilize Best Available Control Technology (BACT) on emissions as required by PSD, and (iv) utilize Maximum Achievable Control Technology (MACT) for emissions of HAPs as required by Section 112(g) of the Clean Air Act.

b. The determinations of BACT and MACT made by the Illinois EPA for the proposed plant are the control technology determinations contained in the permit conditions for specific emission units.

c. Because USEPA has not adopted MACT standards for utility boilers at power plants pursuant to Section 112 of the Clean Air Act, this permit contains a case-by-case determination of MACT pursuant to Section 112(g) of the Clean Air Act. This addresses the possibility that such standards are ultimately required but are not yet adopted by USEPA or are not effective when the plant would begin to operate, so that MACT must be established pursuant to Section 112(g) of the Clean Air Act. For this purpose, limits related to HAP emissions constitute MACT. As limits are not present for specific HAPs, the MACT determination relies upon the limits established for other pollutants to also restrict emissions of HAPs for which individual limits are not set.

6a. The air quality analysis submitted by Prairie State and reviewed by the Illinois EPA shows that the proposed project will not cause or contribute to violations of the National Ambient Air Quality Standard (NAAQS) for NO_2, SO_2, PM/PM_{10}, and CO. The air quality analysis shows compliance with the Class II allowable increment levels established under the PSD regulations.

b. Prairie State has also evaluated the impact of the proposed plant on air quality and visibility in the Wilderness Area at the Mingo Wildlife Refuge, which is located approximately 140 kilometers southwest of the proposed plant. This analysis shows that the plant will not violate the Class I air quality increments applicable in the Mingo Wilderness Area. The Illinois EPA also determined based on the visibility assessment submitted by Prairie State that the proposed plant would not have an adverse impact on visibility values in the Mingo Class I Area.

i. Under the PSD rules, the Illinois EPA must determine whether emissions from this plant will have an adverse impact on visibility and other air quality related values at Class I areas. Prairie State submitted a visibility assessment using the guidance prepared by the *Federal Land Managers' Air Quality Related Values Work Group* (FLAG), with adjustments that the Illinois EPA determined were appropriate for the Mingo Area. This assessment showed when taking into account weather phenomena (rain, snow, fog, drizzle, etc.) on natural background light extinction and visitor use, the plant would not have an adverse impact on visibility. Only one day out of the three years of meteorological data used in the modeling predicted a change in the extinction

coefficient of greater than 10%, i.e., a maximum 12.1% change. Copies of these analyses were provided to the Federal Land Manager for the Mingo Area, i.e., the United States Fish and Wildlife Service (USFWS) and the USFWS subsequently submitted comments indicating that it believed that the project would have an adverse impact on air quality related values at the Mingo Area.

ii. Having considered the USFWS comments and other information in the record, Illinois EPA finds that this project will not have an adverse impact on the Mingo Area. While the Illinois EPA considered the FLAG guidance, the Illinois EPA recognized that the FLAG guidance must be applied to include the effects of weather phenomena on natural background light extinction and the effect of visitor use of the Class I area. This finding is consistent with the FLAG guidance, which notes that adverse impact on visibility is defined in federal visibility protection regulations (40 CFR 51.300, *et seq.*, Section 52.27) as "visibility impairment, which interferes with the management, protection, preservation or enjoyment of the visitor's visual experience of the federal Class I area. This determination must be made on a case-by-case basis taking into account the geographic extent, intensity, duration, frequency, and time of visibility impairment, and how these factors correlate with: (1) times of visitor use of the federal Class I area, and (2) the frequency and timing of natural conditions that reduce visibility."

iii. This permit contains requirements for the coal-fired boilers that were not present in the draft permit that reduce the emissions and air quality impacts of the plant, which were not considered as part of the USFWS' original evaluation. These requirements include an additional limit for the SO_2 emissions in terms of control efficiency and a more stringent limit for NO_x emissions (Conditions 2.1.2(b)(ii)(B) and (b)(iii)). This permit also includes certain requirements proposed by Prairie State specifically to ameliorate any potential impact on air quality related values at the Mingo Area (Conditions 1.1.9, 2.1.7(a)(ii), and 2.1.7(b)(ii)). Most notably, Prairie State will retire 25 percent more SO_2 allowances than required to comply with the Acid Rain program, in proportion to actual emissions, until (1) implementation of additional cap and trade federal regulation or legislation (such as the Clean Air Interstate Rule); or (2) other new federal or state regulations limiting SO_2 emissions from power plants are adopted and take effect. This commitment goes significantly beyond the requirements of the federal Acid Rain program, which already requires Prairie State to obtain and retire SO_2 allowances on a one-for-one basis for actual emissions of SO_2 and acts to prevent any net increase in SO_2 emissions to the atmosphere as a result of the operation of the plant. Nor did the USFWS original evaluation include a consideration of other related developments that affect emissions of Illinois' coal-fired power plants, i.e., the development of a Consent Decree to specifically address emissions of Dynegy's plants, including the Baldwin plant, and the USEPA's actual adoption of the Clean Air Interstate Rule.

c. The Illinois EPA has evaluated the impact of the proposed plant on ozone air quality. The Illinois EPA's evaluation concludes that the plant will not interfere with improvements in ozone air quality and attainment of the ozone standard in the St. Louis area.

7. The Illinois EPA has determined that the proposed plant complies with all applicable Board Air Pollution Control Regulations; the federal rules for PSD, 40 CFR 52.21; applicable federal New Source Performance Standards (NSPS), 40 CFR 60; and Section 112(g) of the Clean Air Act and applicable federal regulations thereunder, National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 63, Subpart B.

8. In conjunction with the issuance of this permit, the Illinois EPA has also issued an Acid Rain permit for the proposed coal boilers, to address requirements of the federal Acid Rain program. These boilers would be affected units under the Acid Rain Deposition Control Program pursuant to Title IV of the Clean Air Act. As affected units under the Acid Rain Program, Prairie State must hold SO_2 allowances each year for the actual emissions of SO_2 from the boilers. The boilers are also subject to emissions monitoring requirements pursuant to 40 CFR Part 75. As the Acid Rain permit relates to the Acid Rain Program, it is not considered part of the PSD approval.

9. In conjunction with the issuance of this permit, the Illinois EPA is also issuing a Budget Permit for the proposed coal boilers, to address requirements of the NO_x Trading Program. As the Budget Permit relates to the NO_x Trading Program, it is not considered part of the PSD approval.

10. A copy of the application, the project summary prepared by the Illinois EPA, a draft of this permit, and a draft of the Acid Rain and Budget permits were placed in a nearby public repository, and the public was given notice and an opportunity to examine this material and to participate in a public hearing and to submit comments on these matters.

INTRODUCTION: IDENTIFICATION OF SIGNIFICANT EMISSIONS UNITS

Unit Number	Description	Emission Control Measures
1	Boiler 1 - Pulverized Coal Boiler	Good Combustion Practices, Low NO_x Burners, Selective Catalytic Reduction, Electrostatic Precipitator, Wet Flue Gas Desulfurization (Scrubber), and Wet Electrostatic Precipitator
	Boiler 2 - Pulverized Coal Boiler	Good Combustion Practices, Low NO_x Burners, Selective Catalytic Reduction, Electrostatic Precipitator, Wet Flue Gas Desulfurization (Scrubber), and Wet Electrostatic Precipitator
2	Fuel and Other Bulk Material Handling, Processing and Storage Operations	Baghouses and Dust Control Measures (application of water or dust suppressant, enclosures or compaction, and filtration)
3	Cooling Towers	High-Efficiency Drift Eliminators
4	Auxiliary Boiler - Natural Gas Fired Boiler	Low-NO_x Burners, Limited Operations, Proper Combustion, Operation and Maintenance
5	Roadways and Other Sources of Fugitive Dust	Paving and Dust Control Measures (application of water or dust suppressions and dust collection)

SECTION 1: SOURCE-WIDE PERMIT CONDITIONS

CONDITION 1.1: EFFECT OF PERMIT

a. This permit does not relieve the Permittee of the responsibility to comply with all local, state and federal regulations that are part of the applicable Illinois' State Implementation Plan, as well as all other applicable federal, state and local requirements.

b. In particular, this permit does not relieve the Permittee from the responsibility to carry out practices during the construction and operation of the plant, such as application of water or dust suppressant sprays to unpaved traffic areas, as necessary to minimize fugitive dust and prevent an air pollution nuisance from fugitive dust, as prohibited by 35 IAC 201.141.

CONDITION 1.2: VALIDITY OF PERMIT AND COMMENCEMENT OF CONSTRUCTION

a. This permit shall become invalid as applied to the plant and each boiler at the plant if construction is not commenced within 18 months of the PSD approval becoming effective, if construction of a boiler is discontinued for a period of 18 months or more, or if construction of a boiler is not completed within a reasonable period of time. The Illinois EPA may extend the 18-month period upon a satisfactory showing that an extension is justified. This condition supersedes Standard Condition 1 of the permit. (See Attachment 2)

b. For purposes of the above provisions, the definitions of "construction" and "commence" at 40 CFR 52.21 (b) (8) and (9) shall apply, which requires that a source must enter into a binding agreement for on-site construction or begin actual on-site construction. (See also the definition of "begin actual construction," 40 CFR 52.21 (b) (11)).

CONDITION 1.3: FUEL SUPPLY

a. The power plant shall be developed and operate as a mine-mouth plant.

Note: Acceptance of any coal by rail or truck would require a separate state construction permit, as this permit does not address receiving of coal by rail or truck. The proposed use of unwashed coal delivered by rail or truck by the plant would require approval under the PSD rules. As part of such approval, the determination of BACT for the coal boilers would be subject to review and possible revision as needed to address the new source(s) of coal and requirements for coal washing as related to control of SO_2 emissions.

i. As a mine-mouth facility, the plant shall use coal delivered by conveyor belt directly from the mining facility or facilities in the two coal-fired boilers, except during extended interruptions in the mine-mouth coal supply.

ii. During an extended interruption in the mine-mouth coal supply, the plant may use washed Illinois No. 5 and No. 6 coal from off-site, as further provided below:

A. For an incident to be considered an extended interruption in the coal supply to the boilers, the interruption must be caused by events or circumstances that could not have been reasonably prevented by the Permittee, its contractors, or any entity controlled by the Permittee, and the interruption in the coal supply must be of longer duration than the interruptions that routinely occur in the operation of mining facilities (which the Permittee can address by maintaining a reserve supply of coal at the plant).

B. To continue to qualify for the exception provided for extended interruptions in the mine-mouth coal supply, the Permittee must be undertaking a program to restore the coal supply that has experienced the interruption, in a reasonable period of time that is consistent with the nature of the efforts needed to restore such coal supply. In the event that only a partial interruption occurs or the operation of the mining facility is partially restored, the exception for an extended interruption in the coal supply only applies to the portion of the coal supply that is affected.

C. The Permittee shall notify the Illinois EPA prior to using coal from off-site. This notification shall include a detailed description of the nature of the anticipated interruption in the mine-mouth coal supply and document why it qualifies as an extended interruption. This notification shall be submitted 15 days before beginning to use off-site coal or otherwise as soon as it is practicable to do so. Thereafter, the Permittee shall submit periodic progress reports on a schedule as specified by the Illinois EPA.

CONDITION 1.4: GENERAL PROVISIONS FOR A MAJOR SOURCE OF HAZARDOUS AIR POLLUTANTS (HAPS)

a. As the plant is a new major source of HAPs for purposes of Section 112 of the Clean Air Act, the Permittee shall comply with all applicable requirements contained in 40 CFR Part 63, Subpart A. In particular, for the various HAP emission units at the source, the Permittee shall comply with the following applicable requirements of 40 CFR 63 Subpart A, related to startup, shutdown, and malfunction, as defined at 40 CFR 63.2:

i. The Permittee shall at all times, including periods of startup, shutdown, and malfunction as defined at 40 CFR 63.2, operate and maintain emission units at the source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard(s) or comply with the applicable Startup, Shutdown, and Malfunction Plan (Plan), as

required below. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Illinois EPA and USEPA, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the Plan), review of operation and maintenance records, and inspection of the unit. [40 CFR 63.6(e)(1)(i)]

ii. The Permittee shall correct malfunctions as soon as practicable after their occurrence in accordance with the applicable Plan. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, the Permittee shall comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices. [40 CFR 63.6(e)(1)(ii)]

iii. These operation and maintenance requirements, which are established pursuant to Section 112 of the Clean Air Act, are enforceable independent of applicable emissions limitations and other applicable requirements. [40 CFR 63.6(e)(1)(iii)]

b. The Permittee shall develop, implement, and maintain written Startup, Shutdown, and Malfunction Plans (Plans) that describe, in detail, procedures for operating and maintaining the various emission units at the plant during periods of startup, shutdown, and malfunction and a program of corrective action for a malfunctioning process, and air pollution control and monitoring equipment used to comply with the relevant emission standards. These Plans shall be developed to satisfy the purposes set forth in 40 CFR 63.6(e)(3)(i)(A), (B) and (C). The Permittee shall develop its initial Plans prior to the initial startup of an emission unit(s). [40 CFR 63.6(e)(3)(i)]

i. During periods of startup, shutdown, and malfunction of an emission unit, the Permittee shall operate and maintain such unit, including associated air pollution control and monitoring equipment, in accordance with the procedures specified in the applicable Plan required above. [40 CFR 63.6(e)(3)(ii)]

ii. When actions taken by the Permittee during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the applicable Plan, the Permittee shall keep records for that event which demonstrate that the procedures specified in the Plan were followed. In addition, the Permittee shall keep records of these events as specified in 40 CFR 63.10(b), including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the Permittee shall confirm in the periodic compliance report that actions taken during periods of startup, shutdown, and malfunction were consistent with the applicable Plan, as required by 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(iii)]

iii. If an action taken by the Permittee during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) of an emission unit is not consistent with the procedures specified in the applicable Plan, and the emission unit exceeds a relevant emission standard, then the Permittee must record the actions taken for that event and must promptly report such actions as specified by 40 CFR 63.6(d)(5), unless otherwise specified elsewhere in this permit or in the CAAPP Permit to be issued for the plant. [40 CFR 63.6(e)(3)(iv)]

iv. The Permittee shall make changes to the Plan for an emission unit if required by the Illinois EPA or USEPA, as provided for by 40 CFR 63.6(e)(3)(vii), or as otherwise required by 40 CFR 63.6(e)(viii). [40 CFR 63.6(e)(3)(vii) and (viii)]

v. These Plans are records required by this permit, which the Permittee must retain in accordance with the general requirements for retention and availability of records (See Condition 4.4). In addition, when the Permittee revises a Plan, the Permittee must also retain and make available the previous (i.e., superseded) version of the Plan for a period of at least 5 years after such revision. [40 CFR 63.6(e)(v) and 40 CFR 63.10(b)(1)]

Note: See also Condition 2.1.6 for the coal boilers.

CONDITION 1.5: ANCILLARY EQUIPMENT, INCLUDING THE TWO DIESEL ENGINES

a. Ancillary equipment, including the two diesel engines, shall be operated in accordance with good air pollution control practices to minimize emissions.

b. i. The diesel engines shall be used as emergency engines, as defined at 35 IAC 211.1920.

ii. The power output of each diesel engine shall be no more than 1,500 horsepower, as necessary to qualify as an emergency or standby unit as defined by 35 IAC 211.1920.

iii. Operation of each diesel engine shall not exceed 340 hours per year; provided, however, that the Illinois EPA may authorize temporary operation of each diesel engine in excess of 340 hours per year to address extraordinary circumstances that require operation of the engines, by issuance of a separate State construction permit addressing such circumstances.

iv. The fuel fired in the diesel engines shall be ultra-low sulfur (ULS) diesel fuel or other alternative ultra-low sulfur fuel oil containing no more than 15 ppm sulfur (e.g., bio-diesel).

Note: These requirements for the fuel fired in the engines constitute the determination of Best Available Control Technology (BACT) for the engines, as required under the PSD rules.

CONDITION 1.6: AUTHORIZATION TO OPERATE EMISSION UNITS

a. i. Under this permit, each coal boiler and associated equipment may be operated for a period that ends 180 days after the boiler first sends electricity to the grid to allow for equipment shakedown and required emissions testing. This period may be extended by Illinois EPA upon request of the Permittee if additional time is needed to complete shakedown or perform emission testing. This condition supersedes Standard Condition 6. (See Attachment 2)

ii. Upon successful completion of emission testing of a pulverized coal boiler demonstrating compliance with applicable limitations, the Permittee may continue to operate the boiler and associated equipment as allowed by Section 39.5(5) of the Environmental Protection Act.

b. i. The remainder of the plant, excluding the coal boilers, may be operated under this construction permit for a period of 365 days after initial startup of a pulverized coal boiler. This period of time may be extended by the Illinois EPA for up to an additional 365 days upon written request by the Permittee as needed to reasonably accommodate unforeseen difficulties experienced during shakedown of the plant. This condition supersedes Standard Condition 6. (See Attachment 2)

ii. Upon successful completion of emission testing of a pulverized coal boiler demonstrating compliance with applicable limitations, the Permittee may continue to operate the remainder of the plant as allowed by Section 39.5(5) of the Environmental Protection Act.

c. For the coal boilers and other emission units that are subject to federal New Source Performance Standards (NSPS), the Permittee shall fulfill applicable notification requirements of the NSPS, 40 CFR 60.7(a), including:

i. Written notification of commencement of construction no later than 30 days after such date (40 CFR 60.7(a)(1)); and

ii. Written notification of the actual date of initial startup within 15 days after such date (40 CFR 60.7(a)(3)).

CONDITION 1.7: POST-CONSTRUCTION MONITORING

a. The Permittee shall construct, operate and maintain an ambient air monitoring station, as follows, at an appropriate location in southwestern Illinois at a site outside the St. Louis metropolitan area to assist the Illinois EPA in evaluating PM2.5 air quality in the region and to support evaluation of the impact of sources in southwestern Illinois on air quality and visibility in the Mingo Wilderness Area.

i. Monitoring shall be conducted in accordance with written monitoring procedures, in a manner that is consistent with applicable USEPA regulations for ambient air quality monitoring and collection of meteorological data.

ii. Ambient monitoring shall be conducted for speciated PM2.5 and ammonia. Meteorological data, i.e., temperature, wind direction and speed, humidity, and solar radiation, shall also be collected at the monitoring station.

iii. The Illinois EPA shall be consulted on the development of this monitoring station. The site for the station and the monitoring and meteorological instruments shall be subject to review and approval by the Illinois EPA prior to entering into site or purchase agreements. The procedures for monitoring shall be subject to review and comment by the Illinois EPA prior to initiation of ambient monitoring.

iv. The Permittee shall provide the Illinois EPA with reasonable access to the monitoring station, including allowing the Illinois EPA to conduct quality assurance audits of instruments. All logs and other operating records kept in conjunction with monitoring shall be considered records required by this permit, except that these records may be kept at the monitoring station until such time as the station is closed, when these records shall be transferred to the plant.

v. All air quality and meteorological data collected at the station, along with quality assurance data, shall be supplied to the Illinois EPA, which may make all such data publicly available under the Freedom of Information Act.

vi. Monitoring shall begin at least one year before the scheduled startup of the coal boilers, to assure that the monitoring station is fully operational when the plant begins operation and to obtain base air quality data.

vii. Monitoring shall continue for at least three full calendar years following the completion of the shakedown of the coal boilers.

b. As an alternative to conducting monitoring as set forth above, the Permittee may assist the Illinois EPA in conducting comparable monitoring in the southwestern Illinois region, by supplying equipment, developing monitoring sites or providing other support for the Illinois EPA's monitoring program, while the Illinois EPA or other parties assume responsibility for the day-to-day operation of the monitoring stations. For this purpose, monitoring may be conducted at a station in southwestern Illinois located in the St. Louis metropolitan area, as well as at stations located outside the metropolitan area. If the Permittee elects this alternative, the level of support provided by the Permittee shall be comparable to the total expense that the Permittee would have experienced had it conducted the above ambient monitoring.

c. These requirements for ambient monitoring may be relaxed in the CAAPP Permit issued for the plant if the Illinois EPA determines that sufficient air quality data has been collected to satisfy the purposes for this monitoring.

CONDITION 1.8: RISK MANAGEMENT PLAN

Should this source be subject to the Chemical Accident Prevention Provisions in 40 CFR Part 68, then the Permittee shall submit:

a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or

b. A certification statement that the source is in compliance with all applicable requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.

Note: This condition is imposed in this permit pursuant to 40 CFR 68.215(a).

CONDITION 1.9: SUPPLEMENTAL REQUIREMENTS FOR SO_2 ALLOWANCES

The Permittee shall retire additional SO_2 allowances under the federal Acid Rain Program (See Condition 2.1.5(a), Condition 3.1, and Attachment 3) above those otherwise required by this program in an amount equal to 25 percent of the actual SO_2 emissions from affected units (the coal-fired boilers) until such time as either: (1) An additional federal "cap and trade" control program is adopted and in effect covering SO_2 emissions from coal-fired power plants (such as the Clean Air Interstate Rule),or (2) Other federal or state program is adopted and in effect further controlling SO_2 emissions from power plants on a regional basis, whichever occurs first.

Note: For example, in 2008 when the annual SO_2 emissions from the coal-fired boilers are limited to 10,679 tons, this condition could result in the retirement of up to 2,670 additional SO_2 allowances (0.25 x 10,679 tons/year = 2,669.8). The actual amount of additional allowances retired would be determined from the actual annual SO_2 emissions of the boilers. This condition reflects a commitment made by the Permittee to the United States Fish and Wildlife Service (USFWS) in response to concerns expressed by the USFWS about the impact of the plant on Air Quality Related Values in the Wilderness Area in the Mingo Wildlife Refuge in southeastern Missouri. (See also Conditions 2.1.7(a)(ii) and (b)(ii).)

SECTION 2: UNIT-SPECIFIC CONDITIONS FOR PARTICULAR EMISSION UNITS

CONDITION 2.1: UNIT-SPECIFIC CONDITIONS FOR THE BOILERS

2.1.1 Emission Unit Description

The affected units for the purpose of these specific permit conditions are two pulverized coal boilers with individual air pollution control trains. The boilers would also have the capability to burn natural gas, which would be used for startup of the boilers.

2.1.2 Control Technology Determination

a. Each boiler shall be operated and maintained with the following features to control emissions:

i. Good combustion practices.

ii. Low-NO_x burners.

iii. Selective catalytic reduction (SCR).

iv. Electrostatic precipitator (ESP).

v. Wet flue gas desulfurization (WFGD).

vi. Wet electrostatic precipitator (WESP).

b. The emissions from each boiler shall not exceed the following limits:

i. A. PM - 0.015 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing for PM (filterable) in accordance with Condition 2.1.8 and from equipment operation. This limit shall not apply during startup, shutdown and malfunction as addressed by Condition 2.1.2(e).

B. PM_{10} - 0.035 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing for PM (filterable and condensable) in accordance with Condition 2.1.8 and from equipment operation. This limit shall not apply during startup, shutdown and malfunction as addressed by Condition 2.1.2(e). A lower limit (as low as 0.018 lb/million Btu) may be set pursuant to Condition 2.1.17, which requires reevaluation of the above limit based upon actual PM_{10} emissions of the affected boilers.

ii. A. SO_2 - 0.182 lb/million Btu.

This limit shall apply as a 30 day rolling average, with compliance determined using the compliance procedures set forth in the NSPS, 40 CFR 60.48a. In lieu of the compliance procedures of the NSPS, for a 30 day period that includes a startup of an affected boiler, compliance may be determined on a mass-basis by calculating the average emission rate in lb/million Btu from the total emissions of SO_2 and the total heat input to the boiler during the period, as determined under the methodology of the Acid Rain program.

B. SO_2 -98 percent control (2 percent of the potential combustion concentration of the coal supply for the boilers).

This limit shall take effect 18 months after the initial startup of the boiler. This limit shall apply as a 12 month rolling average with compliance determined based on the actual SO_2 emissions of the boiler determined using the procedures set forth under the Acid Rain program and its theoretical emissions of SO_2, that would result from combustion of coal without emissions control systems, calculated as the product of the average SO_2 input rate from "as fired" fuel analyses, determined in accordance with 40 CFR 60, Appendix A, Method 19, and 60.48a(b), and the heat input to the boilers, also determined using procedures under the Acid Rain program.

Note: These limits for SO_2 emissions apply to all operations of a boiler, that is, emissions of SO_2 during periods of startup, shutdown and malfunction are not excluded from the determination of compliance.

iii. NO_x - 0.07 lb/million Btu.

This limit shall apply as a 30 day rolling average using the compliance procedures set forth in the NSPS, 40 CFR 60.48a. In lieu of the compliance procedures of the NSPS, for a 30 day period that includes a startup or shutdown of an affected boiler compliance may be determined on a mass-basis by calculating the average emission rate in lb/million Btu from the total emissions of NO_x and the total heat input to the boiler during the period, as determined under the methodology of the NO_x Trading program.

Note: This limit for NO_x emissions applies to all operations of a boiler, that is, emissions of NO_x during startup, shutdown and malfunction are not excluded from the determination of compliance.

iv. A. CO - 0.12 lb/million Btu.

This limit shall apply as a 24-hour block average basis, with continuous monitoring conducted in accordance with Condition 2.1.9. This limit shall not apply during periods of startup and shutdown as addressed below.

B. CO - 893 lb/hr* for startup and shutdown.

This limit shall apply as a 24-hour block average basis with continuous monitoring conducted in accordance with Condition 2.1.9. This limit shall apply during periods of startup and shutdown as also addressed by Condition 2.1.2(e). (For a startup event, the 24-hour period shall begin with the startup of the boiler, i.e., initial firing of fuel. For a shutdown event, the 24-hour period shall end with the shutdown of the boiler, i.e., cessation of fuel flow to the boiler.)

* This value is the product of the rated capacity of the boiler in million Btu/hour and the generally applicable BACT limit for CO, 0.12 lb/million Btu.

v. VOM - 0.004 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.1.8 and equipment operation. This limit shall not apply during startup, shutdown and malfunction as addressed by Condition 2.1.2(e).

vi. Sulfuric Acid Mist - 0.005 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.1.8 and equipment operation. This limit shall not apply during startup, shutdown and malfunction as addressed by Condition 2.1.2(e).

vii. Fluorides - 0.00026 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.1.8 and equipment operation. This limit shall not apply during startup, shutdown and malfunction as addressed by Condition 2.1.2(e).

c. i. The boilers shall each comply with the requirements for control of mercury emissions from coal-fired utility boilers as established by USEPA pursuant to the Clean Air Act.

ii. A. If standards for control of mercury emissions from coal-fired utility boilers pursuant to the Clean Air Act have not yet been adopted by USEPA or are not effective, such that the boilers must be subject to a case-by-case determination of MACT pursuant to Section 112(g) of the Clean Air Act, a boiler shall comply with one of the following requirements with respect to emissions of mercury:

I. A removal efficiency of 95 percent achieved without injection of activated carbon or other similar material specifically used to control emissions of mercury, comparing the emissions and the mercury contained in the coal supply (Permit Option A); or

II. Control by injection of powdered activated carbon or other material or a combination of materials specifically for control of mercury emissions to achieve the maximum practicable degree of mercury removal, as established in accordance with Attachment 4 (Permit Option B).

B. I. Compliance with Permit Option A shall be demonstrated by periodic testing and proper operation of a boiler consistent with other applicable requirements that relate to control of mercury (e.g., requirements applicable to PM and SO_2 emissions) as may be further developed, or revised in the CAAPP Permit issued for the plant. Compliance with Permit Option B shall be demonstrated by proper operation of a boiler and such other practices developed pursuant to Attachment 4 and the applicable State construction permit for the mercury control system. Notwithstanding the above, periods of startup, shutdown and malfunction shall be addressed by the Startup, Shutdown and Malfunction Plan as provided by 40 CFR Part 63, Subpart A. (Refer to Condition 1.4.).

II. These Permit Options shall take effect 12 months after initial startup of an affected boiler, provided however, the Permittee may, upon written notice to the Illinois EPA, extend this period for up to an additional 12 months if needed for detailed evaluation of mercury emissions from the boilers or physical changes to the boilers related to control of mercury emissions. As part of this notice, the Permittee shall explain why the necessary evaluation of emissions or physical changes to the boilers could not reasonably be completed earlier, identify the activities that it

intends to perform to evaluate emissions or further enhance control for emissions, and specify the particular practices it will use during this period as good air pollution control practices to minimize emissions of mercury. Prior to this, the Permittee shall use good air pollution control practices to minimize emissions of mercury.

Note: In conjunction with either Compliance Option, the Permittee shall also conduct continuous emissions monitoring on a continuous or semi-continuous basis for the emissions of mercury from each boiler. (Refer to Condition 2.1.9-2.)

d. i. The boilers shall each comply with the requirements for control of hydrogen chloride emissions established by USEPA pursuant to the Clean Air Act, once applicable regulations are adopted by USEPA.

ii. A. If such standards are not adopted by USEPA or are not effective, such that the boilers must be subject to a case-by-case determination of MACT pursuant to Section 112(g) of the Clean Air Act, a boiler shall comply with one of the following requirements with respect to emissions of hydrogen chloride:

I. An emission rate of 0.0032 lb/million Btu, 3-hour average (Permit Option A); or

II. A removal efficiency of 98 percent, 3-hour average, comparing the emissions and the chlorine content of the fuel supply, expressed as equivalent hydrogen chloride (Permit Option B).

B. Compliance with Permit Options shall be demonstrated by periodic testing and proper operation of a boiler consistent with other applicable requirements that relate to control of SO_2 emissions, as may be further developed or revised in the CAAPP Permit issued for the plant. Notwithstanding the above, periods of startup, shutdown and malfunction shall be addressed by the Startup, Shutdown and Malfunction Plan as provided by 40 CFR Part 63, Subpart A. (Refer to Condition 1.4.)

C. These Permit Options shall take effect 12 months after initial startup of a boiler. Prior to such date, the Permittee shall use good air pollution control practices to minimize emissions of hydrogen chloride.

e. The Permittee shall use good air pollution control practices to minimize emissions during startup, shutdown and malfunction of a boiler as further addressed in Condition 2.1.6, including the following:

i. Use of natural gas during startup to heat the boiler prior to initiating firing of coal;

ii. Operation of the boiler and associated air pollution control equipment in accordance with written operating procedures that include Startup, Shutdown and Malfunction Plan(s) (See also Condition 1.4); and

iii. Inspection, maintenance and repair of the boiler and associated air pollution control equipment in accordance with written maintenance procedures.

Note: These requirements are applicable for emissions of SO_2, NO_x and CO, for which continuous emissions monitoring is performed and the numerical limits in Condition 2.1.2(b) address emissions during startup, shutdown and malfunction, as well as for emissions of PM, VOM and other pollutants, for which continuous emissions monitoring is not performed and the numerical limits in Condition 2.1.2(b) and (c) do not apply during startup, shutdown and malfunction. For PM, VOM, sulfuric acid mist and fluorides (for which the numerical limits in Condition 2.1.2(b) and (c) do not apply during startup, shutdown and malfunction), the lb/hour limits, 3-hour average, in Condition 2.1.7(a) [Attachment 1: Table 1], which continue to apply during such periods, shall serve as "secondary limits" for purposes of BACT, with compliance determined based on engineering analysis and calculations.

2.1.3 Applicable Federal Emission Standards

a. i. The boilers are subject to a New Source Performance Standard (NSPS) for Electric Utility Steam Generating Units, 40 CFR 60, Subparts A and Da. The Illinois EPA administers NSPS in Illinois on behalf of the USEPA under a delegation agreement.

ii. The emissions from each boiler shall not exceed the applicable limits pursuant to the NSPS. In particular, the NO_x emissions from each boiler shall not exceed 1.6 lb/MW-hr gross energy output, based on a 30-day rolling average, pursuant to 40 CFR 60.44a(d).

iii. The particulate matter emissions from each boiler shall not exceed 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity pursuant to 40 CFR 60.42a(b).

b. At all times, the Permittee shall maintain and operate each boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions, pursuant to 40 CFR 60.11(d).

2.1.4 Applicable State Emission Standards

Each boiler is subject to the following state emission standards.

a. Opacity - 35 IAC 212.122 (20 percent opacity)

b. Particulate matter - 35 IAC 212.201 (0.1 lb/million Btu)*

c. Sulfur dioxide - 35 IAC 214.121 (1.2 lb/million Btu)*

d. Carbon monoxide - 35 IAC 216.121 (200 ppm, @ 50 % excess air)*

e. Nitrogen oxides - 35 IAC 217.121 (0.7 lb/million Btu)*

* This standard is not as stringent as the requirement in Condition 2.1.2.

2.1.5. Applicability of Other Regulations

a. Each boiler is an affected unit under the Acid Rain Deposition Control Program pursuant to Title IV of the Clean Air Act and is subject to certain control requirements and emissions monitoring, requirements pursuant to 40 CFR Parts 72, 73 and 75. (See also Condition 3.1 and Attachment 3)

b. The boilers will qualify as Electrical Generating Units (EGU) for purposes of 35 IAC Part 217, Subpart W, the NO_x Trading Program for Electrical Generating Units. As EGU, the Permittee will have to hold NO_x allowances for the NO_x emissions of the boilers during each seasonal control period. (See also Condition 3.2)

c. For particulate matter, the boilers are pollutant-specific emissions units that will be subject to 40 CFR Part 64, Compliance Assurance Monitoring for Major Stationary Sources. As such, the application for Clean Air Act Permit Program (CAAPP) Permit for the source must include a Compliance Assurance Monitoring (CAM) plan for the boilers.

2.1.6 Operating Requirements

a. The Permittee shall operate each boiler and associated air pollution control equipment in accordance with good air pollution control practices to minimize emissions, by operating in accordance with detailed written operating procedures as it is safe to do so. These procedures at a minimum shall:

i. Address startup, normal operation, shutdown and malfunction events.

ii. Fulfill applicable requirements of Condition 1.4 for a Startup, Shutdown and Malfunction Plan, including detailed provisions for review of relevant operating parameters of the boiler systems during startup, shutdown and malfunction as necessary to make adjustments and corrections to reduce or eliminate any excess emissions.

iii. With respect to startup, address readily foreseeable startup scenarios, including so called "hot startups" when the operation of a boiler is only temporarily interrupted, and provide for appropriate review of the operational condition of a boiler prior to initiating startup of the boiler.

iv. A. With respect to malfunction, identify and address likely malfunction events with specific programs of corrective actions, and provide that upon occurrence of a malfunction that will result in emissions in excess of the applicable limits in Condition 2.1.2(b), 2.1.3 and 2.1.4, the Permittee shall, as soon as practicable, repair the affected equipment, reduce the operating rate of the boiler or remove the boiler from service so that excess emissions cease.

B. Consistent with the above, if the Permittee has maintained and operated a boiler and associated air pollution control equipment so that malfunctions are infrequent, sudden, not caused by poor maintenance or careless operation, and in general are not reasonably preventable, the Permittee shall begin shutdown of the boiler within 90 minutes, unless the malfunction is expected to be repaired within 120 minutes or such shutdown could threaten the stability of the regional electrical power supply. In such case, shutdown of the system shall be undertaken when it is apparent that repair will not be accomplished within 120 minutes or shutdown will not endanger the regional power system. In no case shall shutdown of the boiler be delayed solely for the economic benefit of the Permittee.

Note: If the Permittee determines that the continuous emission monitoring system (CEMS) is inaccurately reporting excess emissions, the boiler may continue to operate provided the Permittee records the information it is relying upon to conclude that the boiler and associated emission control systems are functioning properly and the CEMS is reporting inaccurate data and the Permittee takes prompt action to resolve the accuracy of the CEMS.

b. The Permittee shall maintain each boiler and associated air pollution control equipment in accordance with good air pollution control practices to assure proper functioning of equipment and minimize malfunctions, including maintaining the boiler in accordance with written procedures developed for this purpose.

c. The Permittee shall handle the fuel for the boilers in accordance with a written Fuel Management Plan that shall be designed to provide the boilers with a consistent fuel supply that meets relevant criteria needed for proper operation of the boilers and their control systems.

d. The Permittee shall review its operating and maintenance procedures and its Fuel Management Plan for the boilers as required above on a regular basis and revise them if needed consistent with good air pollution control practices based on actual operating experience and equipment performance. This review shall occur at least annually if not otherwise initiated by occurrence of a startup, shakedown, or malfunction event that is not adequately addressed by the existing plans or a specific request by the Illinois EPA for such review.

2.1.7 Emission Limitations

a. i. Emissions from the boilers shall not exceed the limits in Attachment 1, Table I. The limits in Table I are generally based upon the emission rates and the maximum firing rate specified in the permit application consistent with the air quality analysis submitted by the Permittee pursuant to PSD.

ii. Effective 12 months after completion of the initial performance tests or 24 months after initial startup of the boiler, whichever occurs first, SO_2 emissions from the boiler shall not exceed 2,450 lb/hour, daily average.

iii. A. For hourly limitations for which compliance is to be determined on a 24-hour average basis, continuous emission monitoring is required for the pollutant (see Condition 2.1.9). Monitoring data shall be compiled on a calendar day basis to determine compliance, except for NO_x and CO for a calendar day in which a startup or shutdown of a boiler occurred as addressed by Condition 2.1.6(a) for which monitoring data shall be compiled for the 24-hour period following or preceding such event, as appropriate.

B. For hourly limitations for which compliance is to be determined on a 3-hour average basis, emission testing is required for the pollutant (see Condition 2.1.8). When compliance is determined from such testing, the results of such testing shall be compiled as the average of the individual test runs to determine compliance, as provided by 35 IAC Part 283.

b. i. The SO_2 emissions from the boilers shall comply with a lower hourly limit, pursuant to an evaluation conducted in accordance with Condition 2.1.16.

ii. The SO_2 emissions from the coal-fired boilers, in total, in the initial years of operation of the plant through calendar year 2009 shall not exceed 10,679 tons and in calendar year 2010 shall not exceed 11,273 tons.

Note: The above limits on daily and annual SO_2 emissions in Conditions 2.1.7(a)(ii) and (b)(ii) reflect commitments made by the Permittee to the USFWS in response to concerns expressed by the USWFS about the impact of the plant on Air Quality Related Values in the Wilderness Area in the Mingo Wildlife Refuge in southeastern Missouri.

2.1.8 Emission Testing

a. i. A. Within 60 days after achieving the maximum production rate at which a boiler will be operated but not later than 180 days after initial startup of each boiler, the Permittee shall have tests conducted for opacity and emissions of NO_x, CO, PM, VOM, SO_2, hydrogen chloride, hydrogen fluoride, sulfuric acid mist, and mercury and other metals, as follows, at its expense by an approved testing service while the boiler is operating at maximum operating load and other representative operating conditions. (In addition, the Permittee may also perform measurements to evaluate emissions at other load and operating conditions.)

B. This period of time may be extended by the Illinois EPA for up to an additional 365 days upon written request by the Permittee as needed to reasonably accommodate unforeseen difficulties in the startup and testing of the boiler, provided that initial performance testing required by the NSPS, 40 CFR Part 60, Subpart Da, has been completed for the boiler and the test report submitted to the Illinois EPA.

ii. Between 9 and 15 months after performance of the initial testing that demonstrates compliance with applicable requirements, the Permittee shall have the emissions of PM, VOM, hydrogen chloride, hydrogen fluoride, sulfuric acid mist, and mercury and other metals from each affected boiler retested as specified above.

iii. The Permittee shall conduct additional tests for PM emissions as needed for purposes of the evaluation of condensable PM_{10} emissions required by Condition 2.1.17.

iv. A. Thereafter, the Permittee shall also test PM emissions from each boiler as provided below at a regular interval that is no greater than 30 months, except as follows. If the results of two of these PM tests consecutively for a boiler demonstrate PM

emissions that are two thirds or less than the applicable limits (e.g., 0.010 lb/mmBtu or less for PM, as compared to the limit of 0.015 lb/mmBtu), the maximum interval for PM testing of such boiler will be at least once every 48 months. However, if a PM test for such a boiler then shows PM emissions that are more than two thirds of an applicable limit, the maximum interval between testing shall revert to 30 months until two consecutive tests again show PM emissions that are two thirds or less than the applicable limits. For the purpose of these provisions, the two consecutive tests must be at least 24 months apart.

Note: The CAAPP Permit may establish requirements for more frequent emission testing.

B. Whenever PM testing for a boiler is performed as required above, testing for emissions of mercury and hydrogen chloride shall also be performed as provided below.

iv. In addition to the emission testing required above, the Permittee shall perform emission tests as provided below as requested by the Illinois EPA for a boiler within 45 days of a written request by the Illinois EPA or such later date agreed to by the Illinois EPA. Among other reasons, such testing may be required if there is a significant increase in the mercury or chlorine content of the fuel supply to the boilers.

Note: Specific requirements for periodic emission testing may be established in the CAAPP Permit for the plant.

v. Within two years of the initial startup of each affected boiler, the Permittee shall have emission testing conducted for dioxin/furan emissions as provided below.

b. The following methods and procedures shall be used for testing, unless other methods adopted by or being developed by USEPA are specified or approved by the Illinois EPA.

Opacity	Method 9
Location of Sample Points	Method 1
Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3 or 3A
Moisture	Method 4
Particulate Matter[1]	Method 5, or Methods 5 and Method 201 or 201A (40 CFR 51, Appendix M), with Method 19 as specified in 40 CFR 60.48a(b)
Condensable Particulate	Method 202[2]

Nitrogen Oxides[3]	Method 19, as specified in 40 CFR 60.48a(d)
Sulfur Dioxides[3]	Method 19, as specified in 40 CFR 60.48a(c)
Carbon Monoxide[3]	Method 10
Volatile Organic Material[4]	Methods 18 and 25A
Hydrogen Chloride	Method 26
Hydrogen Fluoride	Method 26
Sulfuric Acid Mist	Method 8[2]
Metals[5, 6]	Method 29
Dioxin/Furan	Method 23

Notes:

1 The Permittee may report all PM emissions measured by USEPA Method 5 as PM_{10}, in which case separate testing using USEPA Method 201 or 201A need not be performed.

2 Notwithstanding the general requirement to use USEPA test methods, appropriate refinements or adaptations shall be made to the USEPA test methods or other established test methods may be used for testing, subject to review and approval by the Illinois EPA to facilitate accurate and reliable measurements given the composition of the exhaust. In particular, adaptations shall be made to USEPA Method 202, to prevent positive bias from conversion of sulfur dioxide to sulfuric acid in the impingers, for example, by additional purges or separate, simultaneous measurements of the sulfuric acid emissions.

3 Emission testing shall be conducted for purposes of certification of the continuous emission monitors required by Condition 2.1.9. Thereafter, the NO_x, SO_2 and CO emission data from certified monitors may be provided in lieu of conducting emissions tests.

4 The Permittee may exclude methane, ethane and other exempt compounds from the results of any VOM test provided that the test protocol to quantify and correct for any such compounds is included in the test plan approved by the Illinois EPA.

5 For purposes of this permit, metals are defined as mercury, arsenic, beryllium, cadmium, chromium, lead, manganese, and nickel.

6 During the initial emissions testing for metals, the Permittee shall also conduct measurements using established test methods for the principle forms of mercury present in the emissions, i.e., particle bound mercury, oxidized mercury and elemental mercury.

c. i. Test plans, test notifications, and test reports shall be submitted to the Illinois EPA in accordance with the Condition 4.2.

ii. In addition to other information required in a test report, test reports shall include detailed information on the operating conditions of a boiler during testing, including:

A. Fuel consumption (in tons);

B. Composition of fuel (Refer to Condition 2.1.10(b)), including the metals, chlorine and fluorine content, expressed in pound per million Btu;

C. Firing rate (million Btu/hr) and other significant operating parameters of the boiler, including temperature of the flue gas entering the SCR;

D. Control device operating rates or parameter, e.g., SCR reagent injection rate, ESP voltages and current flows, WFGD pressure drop and reagent addition rate, WESP voltages current flows, and water flow rate;

E. Opacity of the exhaust from the boiler, 6-minute averages and 1-hour averages;

F. Turbine/Generator output rate (MWe gross).

2.1.9-1 Emissions Monitoring - SO_2, NO_x, CO and Opacity

a. i. The Permittee shall install, certify, operate, calibrate, and maintain continuous monitoring systems on each boiler for opacity, emissions of SO_2, NO_x and CO, and either oxygen or carbon dioxide in the exhaust. The opacity monitor shall be located before the wet control equipment as needed to prevent interference from moisture in the ductwork.

ii. The Permittee shall also operate and maintain these emissions monitoring systems according to site-specific monitoring plan(s), which shall be submitted at least 60 days before the initial startup of a boiler to the Illinois EPA for review and comment. With this submission, the Permittee shall submit the proposed type of monitoring equipment and proposed sampling location(s), which shall be approved by the Illinois EPA prior to installation of equipment.

iii. The Permittee shall fulfill the applicable requirements for monitoring in the NSPS, 40 CFR 60.13, 60.47a, and 40 CFR 60 Appendix B, the federal Acid Rain Program, 40 CFR Part 75; 35 IAC Part 217, Subpart W, the NO_x Trading Program for Electrical Generating Units; and NESHAP 40 CFR 63.8 and 63.10. These rules require that the Permittee maintain detailed records for both the measurements made by these systems and the maintenance, calibration and operational activity associated with the monitoring systems.

b. In addition, when NO_x or SO_2 emission data are not obtained from a continuous monitoring system because of system breakdowns, repairs, calibration checks and zero span adjustments, emission data shall be obtained by using standby monitoring systems, emission testing using appropriate USEPA Reference Methods, or other approved methods as necessary to provide emission data for a minimum of 75 percent of the operating hours in a boiler operating day, in at least 22 out of 30 successive boiler operating days, pursuant to 40 CFR 60.47a(f) and (h).

Note: Fulfillment of the above criteria for availability of emission data from a monitoring system does not shield the Permittee from potential enforcement for failure to properly maintain and operate the system.

c. Compliance with the most stringent emission monitoring requirements for a pollutant is sufficient to demonstrate compliance with all emission monitoring requirements for that pollutant.

2.1.9-2 Emissions Monitoring - Mercury

a. If the boilers are subject to Condition 2.1.2(c)(ii), the Permittee shall install, operate and maintain a continuous or semi-continuous monitoring system to measure the mercury emissions of each boiler using monitoring methodology and procedures developed, proposed or adopted by USEPA for monitoring of mercury emissions from coal-fired utility boilers, such as the monitoring and measurement method proposed by USEPA as USEPA Method 324 (40 CFR Part 63, Appendix B, Method 324).

Note: If the boilers are subject to Condition 2.1.2(c)(i), the Permittee will be subject to the monitoring requirements for mercury emissions set by the applicable USEPA regulations.

b. The Permittee shall keep logs for the operation, calibration and maintenance of these monitoring systems.

2.1.10 Operational Monitoring and Measurements

a. The Permittee shall install, evaluate, operate, and maintain meters to measure and record consumption of natural gas by each boiler.

b. i. The Permittee shall sample and analyze the sulfur and heat content of the coal supplied to the boilers in accordance with USEPA Reference Method 19 (40 CFR 60, Appendix A, Method 19).

ii. The Permittee shall analyze samples of all coal supplies that are components of the coal supply to the boilers and the coal supply, itself, for mercury and other metals and chlorine content, as follows:

A. Analysis shall be conducted in accordance with USEPA Reference Methods or other method approved by USEPA.

B. Analysis of the fuel supply to the boiler, itself, shall be conducted in conjunction with performance testing of a boiler.

C. Analysis of representative samples of coal shall be conducted in conjunction with acceptance of coal from off-site.

D. Analysis of representative samples of coal shall be conducted at least every two years, if a more frequent analysis is not needed pursuant to the above requirements.

c. i. The Permittee shall install, operate and maintain systems to measure key operating parameters of the control system for each boiler, including:

A. Reagent injection rate for the SCR unit;

B. Voltages, currents and sparking rates for the ESP;

C. Reagent usage rate for the WFGD; and

D. Voltages, currents, sparking rates and water flow for the WESP.

ii. The Permittee shall maintain the records of the measurements made by these systems and records of maintenance and operational activity associated with the systems.

d. i. The Permittee shall install and operate a particulate matter continuous monitoring system on each boiler for the purpose of compliance assurance monitoring. The PM continuous monitoring system shall monitor PM concentration downstream of the WESP; provided, however, with approval of the Illinois EPA it may be shifted to upstream of the WFGD if it is demonstrated within six months of operation that the device cannot be reliably operated following a wet control device.

ii. The Permittee shall operate, calibrate and maintain each such system in accordance with the applicable USEPA performance specification and other applicable requirements of the NSPS for monitoring systems and in a manner that is generally consistent with published USEPA guidance for use of such systems for compliance assurance monitoring.

iii. The Permittee shall also operate and maintain these monitoring systems according to a site-specific monitoring

plan, which shall be submitted at least 60 days before the initial startup of a boiler to the Illinois EPA for its review and comment. With this submission, the Permittee shall submit the proposed type of monitoring equipment and proposed sampling location, which shall be approved by the Illinois EPA prior to installation of equipment.

2.1.11 Recordkeeping

a. The Permittee shall maintain the following records with respect to operation and maintenance of each boiler and associated control equipment:

i. An operating log for the boiler that at a minimum shall address:

A. Each startup of the boiler, including the nature of the startup, sequence and timing of major steps in the startup, any unusual occurrences during the startup, and any deviations from the established startup procedures, with explanation;

B. Each shutdown of the boiler, including the nature and reason for the shutdown, sequence and timing of major steps in the shutdown, any unusual occurrences during the shutdown, and any deviations from the established shutdown procedures, with explanation; and

C. Each malfunction of the boiler system that significantly impairs emission performance, including the nature and duration of the event, sequence and timing of major steps in the malfunction, corrective actions taken, any deviations from the established procedures for such a malfunction, and preventative actions taken to address similar events.

ii. Inspection, maintenance and repair log(s) for the boiler system that, at a minimum, shall identify such activities that are performed related to components that may effect emissions; the reason for such activities, i.e., whether planned or initiated due to a specific event or condition; and any failure to carry out the established maintenance procedures, with explanation.

iii. Copies of the steam charts and daily records of steam and electricity generation.

b. The Permittee shall maintain records of the following items related to fuels used in the boilers:

i. Records of the sampling and analysis of coal supply to the boilers conducted in accordance with Condition 2.1.10(b).

ii. A. The sulfur content of coal, lb sulfur/million Btu, supplied to the boilers, as determined pursuant to Condition 2.1.10(b)(i); and

B. The sulfur content of coal supplied to the boilers on a 30-day rolling average, determined from the above data.

iii. The amount of fuel combusted in each boiler by type of fuel as specified in 40 CFR Part 60, Appendix A, Method 19.

c. For each boiler, the Permittee shall maintain records of the following items related to emissions:

i. Records of SO_2, NO_x and PM emissions and operation for each boiler-operating day, as specified by 40 CFR 60.49a.

ii. A. With respect to the SO_2 reduction-based standard in 40 CFR 60.43a(a)(1), for each 30 day averaging period, the SO_2 emissions in lb/million Btu and the required SO_2 emission rate as determined by applying the permissible emission fraction to the potential SO_2 emission rate of the coal supply.

B. With respect to the SO_2 reduction in Condition 2.1.2(b)(ii)(B), for each 12 month period once this requirement takes effect, the actual SO_2 emissions, the theoretical "uncontrolled" SO_2 emissions, and the level of SO_2 control achieved.

iii. Records of CO emissions of the boiler based on the continuous emissions monitoring system required by Condition 2.1.9.

iv. Records of emissions of VOM, mercury and other pollutants from the boiler, based on fuel usage and other operating data for the boiler and appropriate emission factors, with supporting documentation.

d. The Permittee shall record the following information for any period during which a boiler deviated from an applicable requirement:

i. Each period during which an affected unit exceeded the requirements of this permit, including applicable emission limits, which records shall include at least the information specified by Condition 4.3.

ii. Each period during which opacity of a boiler exceeded the level of opacity at which emission testing has demonstrated that the boiler would comply with particulate matter emission limits.

2.1.12 Notifications

a. The Permittee shall notify the Illinois EPA within 30 days of deviations from applicable requirements that are not addressed by the regular reporting required pursuant to Condition 2.1.13. These notifications shall include the information specified by Condition 4.5.

2.1.13 Reporting

a. i. The Permittee shall fulfill applicable reporting requirements in the NSPS, 40 CFR 60.7(c) and 60.49a, for each boiler. For this purpose, quarterly reports shall be submitted to the Illinois EPA no later than 30 days after the end of each calendar quarter. (40 CFR 60.49a (i))

ii. In lieu of submittal of paper reports, the Permittee may submit electronic quarterly reports for SO_2 and/or NO_x and/or opacity. The electronic reports shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement indicating whether compliance with applicable emission standards and minimum data requirements of 40 CFR 60.49a were achieved during the reporting period. (40 CFR 60.49a(j))

b. i. Either as part of the periodic NSPS report or accompanying such report, the Permittee shall report to the Illinois EPA any and all opacity and emission measurements for a boiler that are in excess of the respective requirements set by this permit. These reports shall provide for each such incident, the pollutant emission rate, the date and duration of the incident, and whether it occurred during startup, malfunction, breakdown, or shutdown. If an incident occurred during malfunction or breakdown, the corrective actions and actions taken to prevent or minimize future reoccurrences shall also be reported. (40 CFR 60.7(c))

ii. These reports shall also address any deviations from applicable compliance procedures for a boiler established by this permit, including specifying periods during which the continuous monitoring systems were not in operation.

c. The Permittee shall comply with applicable reporting requirements under the Acid Rain Program, with a single copy of such report sent to Illinois EPA, Division of Air Pollution Control Compliance Section.

2.1.14 Operational Flexibility/Anticipated Operating Scenarios

a. The Permittee is authorized to use coal from off-site in the boilers, subject to the restrictions in Condition 1.3, without revision of this permit.

b. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a State construction permit in a timely manner for any activity involving the boiler or the fuel handling equipment that constitutes construction or modification of an emission unit, as defined in 35 IAC 201.102, or that entails receiving of coal by rail or truck. (See also Condition 1.3)

2.1.15 Construction of Additional Control Measures

a. The Permittee is generally authorized under this permit to construct and operate additional devices and features to control emissions from a boiler, which are not described in the application for this permit, as follows. This condition does not affect the Permittee's obligation to comply with the applicable requirements for the boilers.

b. This authorization only extends to devices or features such as sorbent injection systems that are designed to reduce emissions that are identified during the detailed design of the boilers and any refinements to that design that occur during construction and the initial operation of the boilers. These measures may also serve to improve boiler operation as they reduce consumption of materials, but do not include measures that would increase a boiler's rated heat input capacity.

c. Prior to beginning actual construction of any such device or feature, the Permittee shall apply for and obtain a separate State construction permit for it from the Illinois EPA pursuant to 35 IAC Part 201, Subpart D.

2.1.16 Optimization of Daily Control of SO_2 Emissions

a. i. The Permittee shall evaluate SO_2 emissions from the boilers to determine whether a lower hourly limit may be reliably achieved by the SO_2 control system on a daily basis without unacceptable consequences, i.e., inability to comply with other emission limits or requirements, or significant risk to equipment or personnel, and without unreasonable consequences, i.e., a significant increase in actual particulate matter emissions from the boilers or a substantial increase in maintenance and repair needed for the boilers.

ii. A. If the Permittee fails to complete the evaluation or submit the required report in a timely manner as specified by Condition 2.1.16(b), the hourly SO_2 emission limit in Condition 2.1.7(a)(i) shall automatically become 1,350 lb/hour, daily average, not to be exceeded more than one day per month, annual average.

Note: This limit is based on the nominal capacity of each boiler and the SO_2 emission rate set as BACT, i.e., 0.182 lb/million Btu.

B. This permit will be revised to set lower limit(s) for SO_2 emissions (but no lower than the above default limit), if the Illinois EPA, after considering the results of any evaluation performed by the Permittee, finds that the boilers can and should be able to consistently comply with such limit(s) without unacceptable or unreasonable consequences. Additional factors, e.g., the load of the boiler, may be included in such limits to address specific modes of operation during which a particular limit may or may not be achievable.

b. The Permittee shall perform this evaluation of SO_2 emissions in accordance with a plan submitted to the Illinois EPA for review and comment. The initial plan shall be submitted to the Illinois EPA no later than 180 days after initial start-up of a boiler.

The plan shall provide for systematic evaluation of change or variation, within the normal or feasible range of operation, in the following as related to the monitored SO_2 emissions:

i. Sulfur content of the fuel supply;

ii. Boiler operating load and combustion settings, including excess oxygen;

iii. Levels of uncontrolled SO_2 and NO_x before the control devices, as predicted from fuel composition and operating data;

iv. Operating temperature and reagent injection rates for the SCR system;

v. Levels of uncontrolled sulfuric acid mist after the SCR, as predicted from operating data;

vi. Operating parameters of the electrostatic precipitator (ESP);

vii. Operating data and limestone usage rates for the scrubber;

viii. Operating parameters of the wet electrostatic precipitator (WESP); and

ix. Opacity, PM, NO_x, and sulfuric acid mist emissions.

c. i. The Permittee shall promptly begin this evaluation after a boiler demonstrates compliance with all applicable short-term emission limits as shown by emission testing and monitoring.

ii. With the final report for such compliance demonstration, the Permittee shall submit an update to the plan that describes its findings with respect to control of SO_2 emissions during the shakedown of the boilers as it highlights possible areas of concern for the detailed evaluation.

d. i. This evaluation shall be completed and a detailed written report submitted to the Illinois EPA within three years after the initial startup of a boiler. This report shall include proposed alternative limit(s) for SO_2 emissions.

ii. This deadline may be extended by the Illinois EPA for an additional year if the Permittee submits an interim report demonstrating the need for additional time to effectively evaluate SO_2 emissions.

2.1.17 Revision of Total PM_{10} Emission Limit Based on Results of Emission Testing

a. i. The emission limit for PM_{10} in Condition 2.1.2(b)(i)(B) shall be lowered based on the results of emissions testing unless the Permittee demonstrates and the Illinois EPA concurs, based on an evaluation as provided by Condition 2.1.17, that a lower limit cannot be reliably met without unacceptable consequences, i.e., inability to comply with other emission limits or requirements or significant risk to equipment or personnel, and without unreasonable consequences, i.e., a significant increase in maintenance and repair needed for the boilers. For this purpose, the Permittee shall conduct at least four additional emission tests beyond the initial performance test (total of at least five tests) spread out during the period in which the evaluation is being performed.

ii. A. If the Permittee fails to perform the necessary emission testing for evaluation of PM_{10} emissions, the limit for PM_{10} shall automatically be lowered to 0.018 lb/million Btu.

B. If the Permittee fails to complete the evaluation in a timely manner in accordance with Condition 2.1.17(b), the limit for PM_{10} shall automatically be lowered to the greater of (1) 0.018 lb/million Btu or (2) the sum of the average of the results from the required periodic compliance tests (excluding any tests showing noncompliance and any test results that do not reflect representative operating conditions or otherwise reflect outlying data) and the standard deviation of such results, rounded to two significant digits. (If the statistical evaluation of test results yields a value greater than 0.035 lb/million Btu, i.e., the limit in Condition 2.1.2(b), the limit shall remain at 0.035 lb/million Btu.)

iii. This permit will be revised to set lower limit(s) for PM_{10} emissions (but no lower than the above default limits), if the Illinois EPA, after considering the result of any evaluation performed by the Permittee, finds that the boilers can and should be able to consistently comply with such limit(s) without unreasonable consequences.

b. i. If the Permittee elects to perform an evaluation for PM_{10} emissions, the evaluation shall be performed in accordance with a plan submitted to the Illinois EPA for review and comment. The plan shall provide for evaluation of PM_{10} emissions at moderate load operation of the boiler as well as operation at full load. The initial plan shall be submitted to the Illinois EPA no later than 180 days after initial start-up of a boiler.

ii. A. This evaluation shall be completed and a detailed written report submitted to the Illinois EPA within three years after the initial startup of a boiler. This report shall include proposed alternative limit(s) for PM_{10} emissions.

B. This deadline may be extended for an additional year if the Permittee submits an interim report demonstrating the need for additional data to effectively set a revised limit for PM_{10} emissions. During this year, at least two more performance tests for PM_{10} emissions shall be conducted.

CONDITION 2.2: UNIT-SPECIFIC CONDITIONS FOR FUEL AND OTHER BULK MATERIAL HANDLING, PROCESSING AND STORAGE OPERATIONS

2.2.1 Description of Emission Units

The affected units for the purpose of these unit-specific permit conditions are operations that handle coal and other materials in bulk that are involved with the operation of the power plant (including the mine facility) and have the potential for particulate matter emissions, including coal, rock, limestone, and ash. Affected units include receiving, transfer, handling, storage, processing or preparation (crushing, etc.) and loading operations for such materials.

2.2.2 Control Technology Determination

a. Emissions of particulate matter from affected units, other than storage piles, including associated material handling operations, coal-handling operations at the mine facility, and the transfer belt between the mine facility and the power plant facility, shall be controlled with enclosures and aspiration to baghouses or other filtration devices. These control devices shall be operated in accordance with good air pollution control practices to minimize emissions.

b. There shall be no visible fugitive emissions, as defined by 40 CFR 60.671, from storage buildings unless such emissions comply with the requirements of Condition 2.2.3(a).

c. i. Coal handling operations at the mine facility, other than associated with storage piles, and the transfer belt between the mine facility and the power plant facility shall be controlled by enclosure or covers and fogging, material quality, or application of water or other dust suppressants so as to minimize fugitive emissions to the extent practicable.

ii. For this purpose, for each affected unit, either (1) there shall be no visible emissions from the affected unit, as determined in accordance with USEPA Method 22, or (2) a nominal control efficiency for particulate matter emissions of at least 99 percent shall be achieved from the uncontrolled emission rate, as determined using appropriate USEPA emission factors for uncontrolled particulate emissions and engineering analysis and calculations.

d. i. Storage piles, including material handling operations associated with the piles, shall be controlled by application of water or other dust suppressants so as to minimize fugitive emissions to the extent practicable.

ii. A. For this purpose, except for limestone, a nominal control efficiency of at least 90 percent shall be achieved from the uncontrolled emission rate, as determined using appropriate USEPA emission factors for uncontrolled particulate emissions and engineering analysis and calculations.

B. For limestone, (1) a nominal control efficiency of at least 99 percent shall be achieved, or (2) there shall be no visible emissions from the affected unit, as determined in accordance with USEPA Method 22.

2.2.3 Applicable Federal Emission Standards

a. Affected units engaged in handling limestone shall comply with applicable requirements of the NSPS for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart 000 and related provisions of 40 CFR 60, Subpart A.

i. Pursuant to the NSPS, stack emissions of particulate matter are subject to the following limitations:

A. The rate of emissions shall not exceed 0.05 gram/dscm (0.02 gr/dscf). (40 CFR 60.672(a)(1))

B. The opacity of emissions shall not exceed 7 percent. (40 CFR 60.672(a)(2))

ii. Pursuant to the NSPS, fugitive emissions of particulate matter are subject to the following limitations:

A. The opacity of emissions from grinding mills, screens, (except truck dumping) storage bins, and enclosed truck or railcar loading operations shall not exceed 10 percent. (40 CFR 60.672(b) and (d))

B. The opacity of emissions from crushers shall not exceed 10 percent. (40 CFR 60.672(b))

C. Truck dumping into any screening operation, feed hopper, or crusher is exempt from the above standards. (40 CFR 60.672(d))

b. Affected units engaged in handling and processing coal shall comply with applicable requirements of the NSPS for Coal Preparation Plants, 40 CFR 60, Subpart Y, and related provisions of 40 CFR 60, Subpart A.

Pursuant to the NSPS, the opacity of the exhaust from coal processing and conveying equipment, coal storage systems (other than open storage piles), and coal loading systems shall not exceed 20 percent (40 CFR 60.252(c)).

c. At all times, the Permittee shall maintain and operate affected units that are subject to NSPS, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions, pursuant to 40 CFR 60.11(d).

2.2.4 Applicable State Emission Standards

a. The emission of smoke or other particulate matter from affected units shall not have an opacity greater than 30 percent, except as allowed by 35 IAC 212.124. Compliance with this limit shall be determined by 6-minute averages of opacity measurements in accordance with USEPA Reference Method 9. [35 IAC 212.109 and 212.123(a)]

b. With respect to emissions of fugitive particulate matter, affected units shall comply with 35 IAC 212.301, which provides that visible emissions of fugitive particulate matter shall not be visible from any process, including any material handling or storage activity, when looking generally toward the zenith at a point beyond the property line of the source, except when the wind speed exceeds 25 miles per hour, as provided by 35 IAC 212.314.

c. The emissions of particulate matter from affected units other than units excluded by 35 IAC 212.323 (refer to Condition 2.2.5(a)) shall comply with the applicable limit pursuant to 35 IAC 212.321, which rule limits emissions based on the process weight rate of emission units and allows a minimum emission rate of 0.55 lb/hour for any individual unit.

2.2.5 Applicability of Other Regulations

This permit is issued based on the coal piles and associated operations, coal handling operations at the mine facility, and the transfer belt between the mine facility and the power plant facility not being subject to 35 IAC 212.321 pursuant to 35 IAC 212.323, which provides that 35 IAC 212.321 shall not apply to emission units, such as stock piles, to which, because of the disperse nature of such emission units, such rules cannot reasonably be applied.

2.2.6 Operating Requirements

a. i. The power plant facility shall be designed and operated to store bulk materials that have the potential for particulate matter emissions, other than coal, limestone, wetted bottom ash and scrubber sludge, in silos, bins, and buildings, without storage of such material in outdoor piles except on a temporary basis during breakdown or other disruption in the capabilities of the enclosed storage facilities.

ii. Outdoor coal piles shall be equipped and operated with adjustable stacker(s), rotary stacker(s), ladders or other comparable devices to minimize the distance that material drops when added to the pile and minimize the associated particulate matter emissions.

b. i. The Permittee shall carry out control of fugitive particulate matter emissions from affected units in accordance with a written operating program describing the measures being implemented in accordance with Conditions 2.2.2 and 2.2.6(a) to control emissions at each area of the plant with the potential to generate more than trivial amounts of such emissions, which program shall be kept current.

A. This program shall include maps or diagrams indicating the location of affected units with the potential for fugitive emissions, accompanied by the following information for each such unit: a general description of the unit, its size (area or volume), the expected level of activity, the nature and extent of enclosure, and a description of installed air pollution control equipment.

B. This program shall include a detailed description of any additional emission control techniques (e.g., water or surfactant spray) including: typical flow of water and additive concentration; rate or normal frequency at which measures would be implemented; circumstances in which the measures would not be implemented e.g., adequate surface moisture on material; triggers for additional control, e.g. observation of 10 percent or greater opacity; and calculated control efficiency.

ii. The Permittee shall submit copies of this operating program to the Illinois EPA for review as follows:

A. A program for the construction of the plant shall be submitted within 30 days of beginning actual construction of the source.

B. The initial operating program for the plant shall be submitted within 90 days of initial start up of the plant.

C. Significant amendments to the program by the Permittee shall be submitted within 30 days.

iii. A revised operating program shall be submitted to the Illinois EPA for review within 90 days of a request from the Illinois EPA for revision to address observed deficiencies in control of fugitive emissions.

c. The Permittee shall conduct inspections of affected units on at least a monthly basis with personnel not directly responsible for the day-to-day operation of these units, for the specific purpose of verifying that the measures identified in the operating program and other measures required to control emissions from affected units are being properly implemented. When the plant

begins to handle bulk materials in the affected units, these inspections shall include observation for the presence of visible emissions, performed in accordance with USEPA Method 22, from buildings and structures in which affected units are located and from units from which the Permittee has elected to demonstrate no visible emissions.

2.2.7 Emission Limitations

Emissions from affected units shall not exceed the limitations in Attachment 1, Table II and the limitations specified in the records required by Condition 2.2.11(a).

2.2.8 Emission Testing

a. i. A. Within 60 days after achieving the maximum production rate at which an affected emission unit subject to NSPS will be operated, but not later than 180 days after initial startup of each such unit, the Permittee shall have emissions tests conducted at its expense as follows below by an approved testing service under unit operating conditions that are representative of maximum emissions.

B. This period of time may be extended by the Illinois EPA upon written request by the Permittee as needed to reasonably accommodate unforeseen difficulties in the startup and testing of an affected unit, provided that initial emissions testing required by the NSPS has been completed for the unit and the test report has been submitted to the Illinois EPA.

ii. In addition to the initial emission testing required above, the Permittee shall perform emission tests as requested by the Illinois EPA for an affected unit within 45 days of a written request by the Illinois EPA or such later date agreed to by the Illinois EPA.

b. The following methods and procedures shall be used for emission testing:

i. The following USEPA methods and procedures shall be used for particulate matter and opacity measurements for the affected units subject to 40 CFR Part 60, Subpart OOO, as specified in 40 CFR 60.675:

Particulate Matter	Method 5 or 17
Opacity	Method 9

ii. The following USEPA methods and procedures shall be used for particulate matter and opacity measurements for the affected units subject to 40 CFR 60, Subpart Y, as specified in 40 CFR 60.254:

Particulate matter - Method 5, the sampling time and sample volume for each run shall be at least 60 minutes and 30 dscf. Sampling shall begin no less than 30 minutes after startup and shall terminate before shutdown procedures begin.

Opacity - Method 9, opacity measurements shall be performed by a certified observer.

c. Test plan(s), test notifications, and test reports shall be submitted to the Illinois EPA in accordance with Condition 4.2.

2.2.9 Operational Monitoring and Measurements

a. The Permittee shall install, operate and maintain systems to measure the pressure drop across each baghouse used to control affected units.

Note: This requirement does not apply to bin vent filters and other similar filtration devices.

b. The Permittee shall maintain the records of the measurements made by these systems and records of maintenance and operational activity associated with the systems.

2.2.10 Emissions Monitoring

None

2.2.11 Recordkeeping

a. The Permittee shall maintain files, which shall be kept current, that contain:

i. A. For the baghouses or other filter devices associated with affected units, design specifications for each device (type of unit, maximum design exhaust flow (acfm or scfm), filter area, type of filter cleaning, performance guarantee for particulate exhaust loading in gr/scf, etc.), the manufacturer's recommended operating and maintenance procedures for the device, and design specification for the filter material in each device (type of material, surface treatment(s) applied to material, weight, performance guarantee, warranty provisions, etc.).

B. For each baghouse, the normal range of pressure drop across the device and the minimum and maximum safe pressure drop for the device, with supporting documentation.

ii. For affected units that are not controlled with baghouses or other filter devices, a detailed description of the work practices used to control emissions of particulate matter.

iii. The designated particulate matter emission rate, in pounds/hour and tons/year, from the affected unit with supporting calculations and documentation, including detailed documentation for the level of emissions control achieved through the work practices that are used to control particulate matter emissions. For each category of affected unit (e.g., coal and limestone receiving and handling), the sum of these emission rates shall not exceed the totals in Table II for the category of affected unit. (See also Condition 2.2.2 and 2.2.7.)

b. The Permittee shall keep records for the amount of bulk materials received by or shipped from the plant by category or type of material (tons/month).

c. For affected units that are subject to NSPS, the Permittee shall fulfill applicable recordkeeping requirements of the NSPS, 40 CFR 60.7 and 60.676.

d. The Permittee shall keep inspection and maintenance logs for each control device associated with an affected unit.

e. The Permittee shall maintain records documenting implementation of the fugitive emission operating program required by Condition 2.2.6, including:

i. Records for inspections required by Condition 2.2.6(c) to verify the implementation of continuous control measures (that are to be in place whenever an affected unit is in operation), including the date and time, the name of the responsible party, identification of the affected unit(s) that were inspected, and the observed condition of control measures;

ii. Records for the implementation of intermittent control measures, i.e., application of suppressants including identification of the affected unit, identification of the suppressant, application rate, dates or date and time of applications, and quantity of total suppressant applied;

iii. Records for application of physical or chemical control agents other than water including the name of the agent; target application concentration, if diluted with water; target application rate; and usage of the agent, gallons/month; and

iv. A log recording incidents when specified control measures were not present or were not used for an affected unit when it was in operation, including description, date, duration, means by which the incident was identified, and a statement of explanation.

f. The Permittee shall record any period during which an affected unit was in operation when its baghouse was not in operation or was not operating properly, as follows:

i. Each period when the pressure drop of a baghouse, as measured pursuant to Condition 2.2.9, deviated outside the levels set as good air pollution control practices (date, duration and description of the event).

ii. Each period when a baghouse failed to operate properly, which records shall include at least the information specified by Condition 4.3.

iii. Each period during which an affected unit deviated from the requirements of this permit, including applicable emission limits, which records shall include at least the information specified by Condition 4.3 and an estimate of the additional emissions of particulate matter that resulted, if any, with supporting calculations.

g. The Permittee shall keep records for all opacity observations made in accordance with USEPA Method 9 for affected units that it conducts or that are conducted on its behalf by individuals who are certified to make such observations. For each occasion on which such observations are made, these records shall include the identity of the observer, a description of the various observations that were made, the observed opacity from individual units, and copies of the raw data sheets for the observations.

h. The Permittee shall maintain the following records for the emissions of the affected units:

Records of emissions of particulate matter based on operating data for the unit(s) and appropriate emission factors, with supporting documentation and calculations.

2.2.12 Notifications

The Permittee shall notify the Illinois EPA within 30 days of deviations from applicable emission standards or operating requirements for the affected units that continue* for more than 24 hours. These notifications shall include the information specified by Condition 4.5.

* For this purpose, time shall be measured from the start of a particular event. The absence of a deviation for a short period shall not be considered to end the event if the deviation resumes. In such circumstances, the event shall be considered to continue until corrective actions are taken so that the deviation ceases or the Permittee takes the affected unit out of service for repairs.

2.2.13 Reporting

a. The Permittee shall submit quarterly reports to the Illinois EPA for all deviations from emission standards, including standards for visible emissions and opacity, and operating requirements set by this permit. These notifications shall include the information specified by Condition 4.5.

b. These reports shall also address any deviations from applicable compliance procedures established by this permit for affected units.

2.2.14 Flexibility

The Permittee is authorized, as follows, to construct and operate affected units that differ from those described in the application without obtaining further approval by the Illinois EPA. This condition does not affect the Permittee's obligation to comply with all applicable requirements for affected units:

a. This authorization only extends to changes that result from the detailed design of the plant and any refinements to that design of the affected units that occur during construction and the initial operation of the plant.

b. With respect to air quality impacts, these changes shall generally act to improve dispersion and reduce impacts, as emissions from individual units are lowered, units are moved apart or away from the fence line, stack heights are increased, and heights of nearby structures are reduced.

c. The Permittee shall notify the Illinois EPA prior to proceeding with any changes. In this notification, the Permittee shall describe the proposed changes and explain why the proposed changes will act to reduce impacts, with detailed supporting documentation.

d. Upon written request by the Illinois EPA, the Permittee shall promptly have air quality dispersion modeling performed to demonstrate that the overall effect of the changes is to reduce air quality impacts, so that impacts from affected units remain at or below those predicted by the air quality analysis accompanying the application.

CONDITION 2.3: UNIT-SPECIFIC CONDITIONS FOR COOLING TOWERS

2.3.1 Description of Emission Units

The affected units for the purpose of these unit-specific conditions are the two cooling towers associated with the steam cycle for each boiler. The cooling towers are sources of particulate matter because of mineral material present in the water, which is emitted to the atmosphere due to water droplets that escape from the cooling tower or completely evaporate. The emissions of particulate matter are controlled by drift eliminators, which collect water droplets entrained in the air exhausted from the cooling towers.

2.3.2 Control Technology Determination

The affected units shall be equipped, operated, and maintained with drift eliminators designed to limit the loss of water droplets from the unit to not more than 0.0005 percent of the circulating water flow.

2.3.3 Applicable Federal Emission Standards

None

2.3.4 Applicable State Emission Standards

Visible emission of fugitive particulate matter from the affected units shall comply with 35 IAC 212.301, which provides that visible emissions of fugitive particulate matter shall not be visible from any process, including any material handling or storage activity, when looking generally toward the zenith at a point beyond the property line of the source, except as provided by 35 IAC 212.314.

2.3.5 Applicability of Other Regulations

None

2.3.6 Operating Requirements

a. Chromium-based water treatment chemicals, as defined in 40 CFR 63.401, shall not be used in the affected units.

b. i. A. The Permittee shall equip the affected units with appropriate features, such as steam reheat, to enable them to be operated without a significant contribution to fogging and icing on offsite roadways during periods when fogging or icing are present in the area or weather conditions are conducive to fogging or icing.

B. Notwithstanding the above, the Permittee need not include such features in the affected units if it demonstrates by appropriate analysis, as approved in writing by the Illinois EPA, that the cooling towers

will be sited and designed and can be operated such that additional features are not needed to prevent a significant contribution to fogging and icing on offsite roadways.

ii. No later than 30 days after completion of the detailed design of the affected units and at least 60 days before construction of the affected units is begun, the Permittee shall submit a summary of the detailed design to the Illinois EPA and either:

A. A detailed description of the physical features that will be included in the affected units to satisfy Condition 2.3.6(b)(i)(A), the practices that would be followed for such features, and a demonstration that such features will be sufficient to prevent a significant contribution to fogging and icing on offsite roadways, for review and comment by the Illinois EPA; or

B. An analysis pursuant to Condition 2.3.6(b)(i)(B), including any operational practices that would be followed for the affected units to prevent a significant contribution to fogging and icing on offsite roadways, for review and approval by the Illinois EPA.

c. The Permittee shall operate and maintain the affected units, including the drift eliminators, in a manner consistent with good air pollution control practices for minimizing emissions.

d. The Permittee shall operate and maintain the affected units in accordance with written operating procedures, which procedures shall be kept current. These procedures shall address the practices that will be followed as good air pollution control practices and the actions that will be followed to prevent a significant contribution to icing and fogging on offsite roadways.

2.3.7 Emission Limitations

The total annual emissions of particulate matter from the affected units shall not exceed 15.0 tons/year, as determined by appropriate engineering calculations.

2.3.8 Emission Testing

None

2.3.9 Work Practices

The Permittee shall maintain the drift eliminators in the affected units in a manner consistent with good air pollution control practices for minimizing emissions.

2.3.10 Operational Monitoring and Measurements

a. The Permittee shall measure the total dissolved solids content in the water being circulated in the affected units on at least a monthly basis. Measurements of the total dissolved solids content in the wastewater discharge associated with the affected units, as required by a National Pollution Discharge Elimination System permit, may be used to satisfy this requirement if the effluent has not been diluted or otherwise treated in a manner that would significantly reduce its total dissolved solids content.

b. Upon written request by the Illinois EPA, the Permittee shall promptly have the water circulating in the affected units sampled and analyzed for the presence of hexavalent chromium in accordance with the procedures of 40 CFR 63.404(a) and (b).

2.3.11 Records

a. The Permittee shall keep a file that contains:

i. The design loss specification for the drift eliminators installed in each affected unit.

ii. The suppliers' recommended procedures for inspection and maintenance of the drift eliminators.

iii. The operating factors, if any, used to determine the amount of water circulated in the affected units or the particulate matter emissions from the affected units, with supporting documentation.

iv. Copies of the Material Safety Data Sheets or other comparable information from the suppliers for the various water treatment chemicals that are added to the water circulated in the affected units.

b. The Permittee shall keep the following operating records for the affected units:

i. The amount of water circulated in the affected units, gallons/month. As an alternative to direct data for water flow, these records may contain other relevant operating data for the units (e.g., water flow to the units) from which the amount of water circulated in the units may be reasonably determined.

ii. Each occasion when the Permittee took action to prevent a significant contribution to fogging or icing from the affected units, including the date and duration, the action or actions that were taken, the weather conditions that triggered such actions, and the weather conditions when such actions were terminated.

c. The Permittee shall keep inspection and maintenance logs for the drift eliminators installed in each affected unit.

d. The Permittee shall maintain records for the particulate matter emissions of the affected units based on the above records, the measurements required by Condition 2.3.10(a), and appropriate USEPA emission estimation methodology and emission factors, with supporting calculation.

2.3.12 Notifications

The Permittee shall notify the Illinois EPA within 30 days of deviations from applicable requirements that are not addressed by the regular reporting required by Condition 2.3.13. These notifications shall include the information specified by Condition 4.5.

2.3.13 If the cooling towers are equipped with features to address fogging and icing, as addressed by Condition 2.3.6(b), the Permittee shall submit quarterly reports to the Illinois EPA summarizing the records required by Condition 2.3.11(b)(ii) and identifying any deviation from established practices for the use of such features.

CONDITION 2.4: UNIT-SPECIFIC CONDITIONS FOR THE AUXILIARY BOILER

2.4.1 Description of Emission Unit

The affected unit for the purpose of these unit-specific conditions is the auxiliary boiler for the plant, which is fired with natural gas. The auxiliary boiler is used to produce low-pressure steam to maintain the plant when the coal-fired boilers are not in operation and to support the startup of the coal-fired boilers.

2.4.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Boiler	Natural Gas-Fired Boiler, with Nominal Rated Heat Input Capacity of 245 Million Btu/Hr	Low-NO_x Burner

2.4.3 Control Technology Determination

a. The only fuel burned in the auxiliary boiler shall be natural gas.

b. The emissions from the affected boiler shall not exceed the following limits except during startup, shutdown and malfunction as addressed by Condition 2.4.3(c).

i. NO_x - 0.167 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.4.9 and equipment operation.

ii. CO - 0.11 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.4.9 and equipment operation.

iii. VOM - 0.013 lb/million Btu.

This limit shall apply as a 3-hour block average, with compliance determined by emission testing in accordance with Condition 2.4.9 and equipment operation.

c. The Permittee shall use reasonable practices to minimize emissions during startup, shutdown and malfunction of the auxiliary boiler, including:

i. Operation of the boiler and associated air pollution control equipment in accordance with written operating procedures that include startup, shutdown and malfunction plan(s); and

ii. Inspection, maintenance and repair of the boiler and associated air pollution control equipment in accordance with written maintenance procedures.

2.4.4 Applicable Federal Emission Standards

a. The auxiliary boiler is subject to the NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db, and related provisions in Subpart A.

b. At all times, the Permittee shall maintain and operate the auxiliary boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions, pursuant to 40 CFR 60.11(d).

c. The auxiliary boiler is not subject to NO_x emission standards under the NSPS because the annual capacity factor shall be less than 10 percent for natural gas.

2.4.5 Applicable State Emission Standards

a. The emission of smoke or other particulate matter from the auxiliary boiler shall not have an opacity greater than 30 percent, except as allowed by 35 IAC 212.124. Compliance with this limit shall be determined by 6-minute averages of opacity measurements in accordance with USEPA Reference Method 9. [35 IAC 212.109 and 212.123(a)]

b. The emission of carbon monoxide (CO) into the atmosphere from the auxiliary boiler shall not exceed 200 ppm, corrected to 50 percent excess air. [35 IAC 216.121]

2.4.6 Applicability of other Regulations

This permit is issued based on the auxiliary boiler not being an electrical generating unit, so that provisions of the federal Acid Rain Program are not applicable to the boiler.

2.4.7 Operating Requirements

a. The auxiliary boiler shall only be fired with natural gas.

b. i. The annual capacity factor of the affected boiler, as defined by 40 CFR 60.41b, shall not exceed 10 percent.

ii. Following the shakedown period for the coal-fired boilers, the auxiliary boiler shall not operate for more than 500 hours per year. Compliance with this limit shall be determined from a running total of 12 months of data.

c. The rated heat input of the auxiliary boiler shall not exceed 245 million Btu/hour.

2.4.8 Emission Limitations

Emissions of NO_x, VOM, CO, and PM from the auxiliary boiler shall not exceed 10.3, 0.8, 6.8, and 0.5 tons/year, respectively. Compliance with these annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.

2.4.9 Emission Testing

a. i. Within 60 days after achieving the maximum production rate at which the auxiliary boiler will be operated, but not later than 180 days after initial startup of the boiler, the Permittee shall have tests conducted for opacity and emissions of NO_x, CO and VOC, as follows, at its expense by an approved testing service while the boiler is operating at maximum operating load and other representative operating conditions.

ii. In addition to the emission testing required above, the Permittee shall perform emission tests as requested by the Illinois EPA for the auxiliary boiler within 45 days of a written request by the Illinois EPA or such later date agreed to by the Illinois EPA.

b. The following methods and procedures shall be used for testing, unless otherwise specified or approved by the Illinois EPA.

Opacity	Method 9
Location of Sample Points	Method 1
Gas Flow and Velocity	Method 2
Flue Gas Weight	Method 3 or 3A
Moisture	Method 4
Nitrogen Oxides	Method 19 as specified in 40 CFR 60.48b
Carbon Monoxide	Method 10
Volatile Organic Compounds	Methods 25A and 18

c. Test plans, test notifications, and test reports shall be submitted to the Illinois EPA in accordance with Condition 4.2.

2.4.10 Operational Monitoring and Measurements

None

2.4.11 Emission Monitoring

None

2.4.12 Recordkeeping

a. The Permittee shall keep a file that contains:

The rated heat input capacity of the auxiliary boiler as provided by the manufacturer or subsequently determined based on the demonstrated heat input capacity of the boiler.

b. The Permittee shall maintain the following operating records for the auxiliary boiler:

i. An operating log or other record that among other matters identifies each period when the boiler is operated and includes the information specified by 40 CFR 60.7(b).

ii. A summary of operating hours (hours/month and hours/year) for all operation and operation when a coal boiler was operating.

iii. Natural gas usage on a monthly basis (cubic feet).

c. The Permittee shall maintain a maintenance and repair log for the auxiliary boiler.

d. The Permittee shall keep records of the annual NO_x, VOM, CO and PM emissions from the auxiliary boiler, based on fuel consumption and applicable emission factors, with supporting calculations.

2.4.13 Notifications

The Permittee shall notify the Illinois EPA within 30 days of deviations from applicable requirements. These notifications shall include the information specified by Condition 4.5.

2.4.14 Reporting

a. The Permittee shall fulfill applicable reporting requirements of the NSPS, 40 CFR 60.7 and 60.49b, for the auxiliary boiler by sending applicable notifications and reports to the Illinois EPA, including:

Notification of the date of initial startup of the boiler, as provided by 40 CFR 60.7. This notification shall include: (1) the design heat input of the boiler, and (2) the annual capacity factor at which the Permittee anticipates operating the boiler. (40 CFR 60.49b(a).

2.4.15 Compliance Procedures

Compliance of the auxiliary boiler with the emission limits in Condition 2.4.8 shall be based on the operating records required by Condition 2.4.12 and appropriate emission factors.

a. The emission factors for NO_x, CO, and VOM shall be based on the results of the emission testing required by Condition 2.4.9.

b. A published USEPA emission factor, as follows, may be used for PM when the boiler operates properly.

PM 0.0076 lb/million Btu

CONDITION 2.5: UNIT-SPECIFIC CONDITIONS FOR ROADWAYS AND OTHER OPEN AREAS

2.5.1 Description of Emission Units

The affected units for the purpose of these unit-specific conditions are roadways, parking areas, and other open areas at the plant, which may be sources of fugitive particulate matter due to vehicle traffic or wind blown dust.

2.5.2 Control Technology Determination

a. i. Good air pollution control practices shall be implemented to minimize and significantly reduce nuisance dust from affected units. After construction of the plant is complete, these practices shall provide for pavement on all regularly traveled roads and treatment (flushing, vacuuming, dust suppressant application, etc.) of paved and unpaved roads and areas that are routinely subject to vehicle traffic for very effective and effective control of dust, respectively (nominal 90 percent control for paved roads and areas and 80 percent control for unpaved roads and areas).

ii. For this purpose, roads that serve a main office, employee parking areas or are used on a daily basis by operating and maintenance personnel for the plant in the course of their typical duties, roads that experience heavy use during regularly occurring maintenance of the power plant facility during the course of a year, shall all be considered to be subject to regular travel and are required to be paved. Regularly traveled roads shall be considered to be subject to routine vehicle traffic except as they are used primarily for periodic maintenance and are currently inactive or as traffic has been temporarily blocked off. Other roads shall be considered to be routinely traveled if activities are occurring such that they are experiencing significant vehicle traffic.

b. The handling of material collected from any affected unit by sweeping or vacuuming trucks shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods to control emission of particulate matter.

2.5.3 Applicable Federal Emission Standards

None

2.5.4 Applicable State Emission Standards

a. Affected units shall comply with 35 IAC 212.301, which provides that emissions of fugitive particulate matter shall not be visible from any process, including any material handling or storage activity, when looking generally toward the zenith at a point beyond the property line of the source, except when the wind speed is greater than 25 miles per hour, as provided by 35 IAC 212.314.

2.5.5 Applicability of Other Regulations

This permit reflects a determination by the Illinois EPA that the source is a power plant or electrical generating operation so that the provisions of 35 IAC 212.306 are not applicable to roads and parking areas at the source. [35 IAC 212.306]

2.5.6 Operating Requirements

a. The Permittee shall carry out control of fugitive particulate matter emissions from affected units in accordance with a written operating program describing the measures being implemented in accordance with Conditions 2.5.2 and 2.5.4 to control emissions at each unit with the potential to generate significant quantities of such emissions, which program shall be kept current.

i. This program shall include maps or diagrams indicating the location of affected units with the potential to generate significant quantities of fugitive particulate matter, with description of the unit (length, width, surface material, etc.) and volume and nature of expected vehicle traffic, or other activity on such unit, and an identification of any roadways that are not considered routinely traveled, with justification.

ii. This program shall include a detailed description of the emissions control technique (e.g., vacuum truck, water spray, surfactant spray, water flushing, dust suppressant application, or sweeping) for the affected unit, including: typical application rate; type and concentration of additives; normal frequency with which measures would be implemented; circumstances, in which the measure would not be implemented, e.g., recent precipitation; triggers for additional control, e.g., observation of 10 percent opacity; and calculated control efficiency for particulate matter emissions.

b. The Permittee shall submit copies of this operating program to the Illinois EPA for review as follows:

i. A program addressing the construction of the plant shall be submitted within 30 days of beginning actual construction of the source.

ii. A program addressing the operation of the plant shall be submitted within 90 days of initial start up of the plant.

iii. Significant amendments to the program by the Permittee shall be submitted within 30 days of the date that the amendment is made.

c. A revised operating program shall be submitted to the Illinois EPA for review within 90 days of a request from the Illinois EPA for revision to address observed deficiencies in control of fugitive particulate emissions.

d. The Permittee shall conduct inspections of affected units on at least a weekly basis during construction of the plant and on a monthly basis thereafter with personnel not directly responsible for the day-to-day implementation of the fugitive dust control program, for the specific purpose of verifying that the measures identified in the operating program and other measures required to control emissions from affected units are being properly implemented.

2.5.7 Emission Limitations

The total annual emissions of particulate matter from the affected units shall not exceed 9.1 tons/year, as determined by appropriate engineering calculations.

2.5.8 Emission Testing

None

2.5.9 Operational Monitoring and Measurements

None

2.5.10 Emission Monitoring

None

2.5.11 Records

a. The Permittee shall keep a file that contains:

i. The operating factors, if any, used to determine the amount of activity associated with the affected units or the particulate matter emissions from the affected units, with supporting documentation.

ii. The designated particulate matter emission rate, in tons/year, from each category of emission unit (e.g., traffic associated with receiving of limestone), with supporting calculations and documentation. The sum of these rates shall not exceed the annual limit on emissions in Condition 2.5.7.

b. The Permittee shall maintain records documenting implementation of the operating program required by Condition 2.5.6, including:

i. For each treatment of an affected unit or units, the name and location of the affected unit(s), the date and time, and the identification of the truck(s) or treatment equipment used;

ii. For each application of water or chemical solution by truck: application rate of water or suppressant, frequency of each application, width of each application, total quantity of water or chemical used for each application and, for each application of chemical solution, the concentration and identity of the chemical;

iii. For application of physical or chemical control agents: the name of the agent, application rate and frequency, and total quantity of agent and, if diluted, percent of concentration, used each day; and

iv. A log recording incidents when control measures were not used and incidents when additional control measures were used due to particular activities, including description, date, a statement of explanation, and expected duration of such circumstances.

c. The Permittee shall record any period during which an affected unit was not properly controlled as required by this permit, which records shall include at least the information specified by Condition 4.3 and an estimate of the additional emissions of particulate matter that resulted, if any, with supporting calculations.

d. The Permittee shall maintain records for the particulate matter emissions of the affected units based on plant operating data, the above records for the affected unit including data for implementation of the operating program, and appropriate USEPA emission estimation methodology and emission factors, with supporting calculations.

2.5.12 Notifications

The Permittee shall notify the Illinois EPA within 30 days of deviations from applicable requirements for affected units that are not addressed by the regular reporting required below. These notifications shall include the information specified by Condition 4.5.

2.5.13 Reporting

The Permittee shall submit quarterly reports to the Illinois EPA for affected units stating the following: the dates any necessary control measures were not implemented; a listing of those control measures; the reasons that the control measures were not implemented; and any corrective actions taken. This information includes, but is not limited to, those dates when controls were not applied based on a belief that application of such control measures would have been unreasonable given prevailing atmospheric conditions. This report shall be submitted to the Illinois EPA no later than 45 calendar days from the end of each calendar quarter.

SECTION 3: TRADING PROGRAM CONDITIONS

CONDITION 3.1: ACID RAIN PROGRAM REQUIREMENTS

a. Applicability

Under Title IV of the federal Clean Air Act, Acid Deposition Control, this plant or source is an affected source and the following emission units at the source are affected units for acid deposition:

Boilers 1 and 2

Note: Title IV of the Clean Air Act, and other laws and regulations promulgated thereunder, establish requirements for affected sources related to control of emissions of pollutants that contribute to acid rain, i.e., SO_2 and NO_x. For purposes of this permit, these requirements are referred to as Title IV provisions.

b. Applicable Emission Requirements

The owners and operators of the source shall not violate applicable Title IV provisions. In particular:

i. SO_2 emissions from the affected units shall not exceed any allowances that the source lawfully holds under Title IV provisions. [Environmental Protection Act, Sections 39.5(7)(g) and (17)(1)]

Note: Affected sources must hold SO_2 allowances to account for the SO_2 emissions from affected units at the source that are subject to Title IV provisions. Each allowance is a limited authorization to emit up to one ton of SO_2 emissions during or after a specified calendar year. The possession of allowances does not authorize exceedances of applicable emission standards or violations of the SO_2 ambient air quality standards.

ii. NO_x emissions from each affected unit shall not exceed the applicable emission standard pursuant to 40 CFR Part 76.

c. Monitoring, Recordkeeping and Reporting

The owners and operators of the source and, to the extent applicable, their designated representative, shall comply with applicable requirements for monitoring, recordkeeping and reporting specified by Title IV provisions, including 40 CFR Part 75. [Environmental Protection Act, Sections 39.5(7)(b) and 17(m)]

Note: As already addressed in Condition 2.1.9, the following emission determination methods will be used for the affected units at this source.

NO_x:	Continuous Emissions Monitoring (40 CFR 75.12)
SO_2:	Continuous Emissions Monitoring (40 CFR 75.11)
Opacity:	Continuous Monitoring (40 CFR 75.14)
O_2/CO_2:	Continuous Monitoring for Oxygen or Carbon Dioxide (40 CFR Part 75.13)

d. Acid Rain Permit

The owners and operators of the source shall comply with the terms and conditions of the source's Acid Rain permit. (Environmental Protection Act, Section 39.5(17)(l)]

Note: The source is subject to an Acid Rain permit, which was issued pursuant to Title IV provisions, including Section 39.5(17) of the Environmental Protection Act. Affected sources must be operated in compliance with their Acid Rain permits. A copy of the initial Acid Rain permit is included as an attachment to this permit. Revisions and modifications of this Acid Rain permit, including administrative amendments and automatic amendments (pursuant to Sections 408(b) and 403(d) of the CAA or regulations thereunder) are governed by Title IV provisions, as provided by Section 39.5(13)(e) of the Environmental Protection Act, and revision or renewal of the Acid Rain permit may be handled separately from this permit.

e. Coordination with Other Requirements

i. This permit does not contain any conditions that are intended to interfere with or modify the requirements of Title IV provisions. In particular, this permit does not restrict the flexibility under Title IV provisions of the owners and operators of this source to amend their Acid Rain compliance plan. [Environmental Protection Act, Section 39.5(17)(h)]

ii. Where another applicable requirement of this permit is more stringent than an applicable requirement of Title IV provisions, both requirements are enforceable and the owners and operators of the source shall comply with both requirements. [Environmental Protection Act, Section 39.5(7)(h)]

CONDITION 3.2: NO_x TRADING PROGRAM

a. Description of NO_x Trading Program

The NO_x Trading Program is a regional "cap and trade" market system for large sources of NO_x emissions in the eastern United States, including Illinois. It is designed to reduce and maintain NO_x emissions from the emission units covered by the program within a budget in order to contribute to attainment and maintenance of the ozone ambient air quality standard in the multi-state region covered by this program, as required by Section 110 of the CAA. The NO_x Trading Program applies in addition to other applicable requirements for NO_x emissions and in no way relaxes these other requirements.

An electrical generating unit (EGU) that is subject to the NO_x Trading Program is referred to as a "budget EGU." Sources that have one or more EGU or other units subject to the NO_x Trading Program are referred to as budget sources.

The NO_x Trading Program controls NO_x emissions from budget EGUs and other budget units during a seasonal control period from May 1 through September 30 of each year, when weather conditions are conducive to formation of ozone in the ambient air. By November 30 of each year, the allowance transfer deadline, each budget source must hold "NO_x allowances" for the actual NO_x emissions of its budget units during the preceding control period. The USEPA will then retire NO_x allowances in the source's accounts in amounts equivalent to its seasonal emissions. If a source does not have sufficient allowances in its accounts, USEPA would subtract allowances from the source's future allocation for the next control period and impose other penalties as appropriate. Stringent monitoring procedures developed by USEPA apply to budget units to assure that NO_x emissions are accurately determined.

The number of NO_x allowances available for budget sources is set by the overall budget for NO_x emissions established by USEPA. This budget requires a substantial reduction in NO_x emissions from historical levels as necessary to meet air quality goals. In Illinois, existing budget sources initially receive their allocation or share of the NO_x allowances budgeted for EGUs in an amount determined by rule [35 IAC Part 217, Appendix F]. Between 2007 and 2011, the allocation mechanism for existing EGUs gradually shifts to one based on the actual utilization of EGU in preceding control periods. New budget EGUs, for which limited utilization data may be available, may obtain NO_x allowances from the new source set-aside (NSSA), a portion of the overall budget reserved for new EGUs.

In addition to directly receiving or purchasing NO_x allowances as described above, budget sources may transfer NO_x allowances from one of their units to another. They may also purchase allowances in the marketplace from other sources that are willing to sell allowances that they have received. Each budget source must designate an account representative to handle all its allowance transactions. The USEPA, in a central, national system, maintains allowance accounts and record transfer of allowances among accounts.

The ability of sources to transfer allowances serves to minimize the costs of reducing NO_x emissions from budget units to comply with the overall NO_x budget. In particular, the NO_x emissions of budget units that may be most economically controlled will be targeted by sources for further control of emissions. This will result in a surplus of NO_x allowances from those units that can be transferred to other units at which it is more difficult to control NO_x emissions. Experience with reduction of SO_2 emissions under the federal Acid Rain program has shown that this type of trading program not only achieves regional emission reductions in a more cost-effective manner, but also results in greater overall reductions than application of traditional emission standards to individual emission units.

The USEPA developed the plan for the NO_x Trading Program with assistance from affected states. Illinois rules for the NO_x Trading Program for EGUs are located in 35 IAC Part 217, Subpart W and have been approved by the USEPA. These rules provide for interstate trading, as mandated by Section 9.9 of the Environmental Protection Act. Accordingly, these rules refer to and rely upon federal rules at 40 CFR Part 96, which have been developed by USEPA for certain aspects of the NO_x Trading Program, and which an individual state must follow to allow for interstate trading of NO_x allowances.

Note: This narrative description of the NO_x Trading Program is for informational purposes only and is not enforceable.

b. Applicability

The following emission units at this source are budget EGUs for purposes of the NO_x Trading Program. Accordingly, this source is a budget source and the Permittee is the owner or operator of a budget source and budget EGU. In this condition, these emission units are addressed as budget EGU.

Boiler 1
Boiler 2

c. General Provisions of the NO_x Trading Program

i. This source and the budget EGUs at this source shall comply with all applicable requirements of Illinois' NO_x Trading Program, i.e., 35 IAC Part 217, Subpart W, and 40 CFR Part 96 (excluding 40 CFR 96.4 (b) and 96.55 (c), and excluding 40 CFR 96, Subparts C, E and I), pursuant to 35 IAC 217.756(a) and 217.756(f)(2).

ii. Any provision of the NO_x Trading Program that applies to a budget source (including any provision applicable to the account representative of a budget source) shall also apply to the owner or operator of such budget sources and to the owner and operator of each budget EGU at the source, pursuant to 35 IAC 217.756(f)(3).

iii. Any provision of the NO_x Trading Program that applies to a budget EGU (including any provision applicable to the account representative of a budget EGU) shall also apply to the owner and operator of such budget EGU, pursuant to 35 IAC 217.756(f)(4).

d. Requirements for NO_x Allowances

i. By November 30 of each year, the allowance transfer deadline, the account representative of each budget EGU at this source shall hold allowances available for compliance deduction under 40 CFR 96.54 in the budget EGUs compliance account or the source's overdraft account in an amount that shall not be less than the budget EGUs total tons of NO_x emissions for the preceding control period, rounded to the nearest whole ton, as determined in accordance with 40 CFR 96, Subpart H, plus any number necessary to account for actual utilization (e.g., for testing, start-up, malfunction, and shutdown under 40 CFR 96.42(e) for the control period, pursuant to 35 IAC 217.756(d)(1)). For purposes of this requirement, an allowance may not be utilized for a control period in a year prior to the year for which the allowance is allocated, pursuant to 35 IAC 217.756(d)(5).

ii. The account representative of a budget EGU that has excess emissions in any control period, i.e., NO_x emissions in excess of the number of NO_x allowances held as provided above, shall surrender the allowances as required for deduction under 40 CFR 96.54(d)(1), pursuant to 35 IAC 217.756(f)(5). In addition, the owner or operator of a budget EGU that has excess emissions shall pay any fine, penalty, or assessment, or comply with any other remedy imposed under 40 CFR 96.54(d)(3) and the Environmental Protection Act, pursuant to 35 IAC 217.756(f)(6). Each ton of NO_x emitted in excess of the number of NO_x allowances held as provided above for each budget EGU for each control period shall constitute a separate violation of 35 IAC Part 217 and the Environmental Protection Act, pursuant to 35 IAC 217.756(d)(2).

iii. An allowance allocated by the Illinois EPA or USEPA under the NO_x Trading Program is a limited authorization to emit one ton of NO_x in accordance with the NO_x Trading Program. As explained by 35 IAC 217.756(d)(6), no provision of the NO_x Trading Program, the budget permit application, the budget permit, or a retired unit exemption under 40 CFR 96.5 and no provision of law shall be construed to limit the authority of the United States or the State of Illinois to terminate or limit this authorization. As further explained by 35 IAC 217.756(d)(7), an allowance allocated by the Illinois EPA or USEPA under the NO_x Trading Program does not constitute a property right. As provided by 35 IAC 217.756(c)(4), allowances shall be held, deducted from, or transferred among allowance accounts in accordance with 35 IAC Part 217, Subpart W, and 40 CFR 96, Subparts F and G.

e. Monitoring Requirements for Budget EGUs

i. The Permittee shall comply with the monitoring requirements of 40 CFR Part 96, Subpart H, for each budget EGU and the compliance of each budget EGU with the emission limitation under Condition 3 (d)(i) shall be determined by the emission measurements recorded and reported in accordance with 40 CFR 96, Subpart H, pursuant to 35 IAC 217.756(c)(1), (c)(2) and (d)(3).

ii. The account representative for the source and each budget EGU at the source shall comply with those sections of the monitoring requirements of 40 CFR 96, Subpart H, applicable to an account representative, pursuant to 35 IAC 217.756(c)(1) and (d)(3).

f. Recordkeeping Requirements for Budget EGUs

Unless otherwise provided below, the Permittee shall keep on site at the source each of the following documents for a period of at least five years from the date the document is created. This period may be extended for cause at any time prior to the end of the five years, in writing by the Illinois EPA or the USEPA (35 IAC 217.756(e)(1)).

i. The account certificate of representation of the account representative for the source and each budget EGU at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 40 CFR 96.13, as provided by 35 IAC 217.756 (e)(1)(A). These certificates and documents must be retained on site at the source for at least five years after they are superseded because of the submission of a new account certificate of representation changing the account representative.

ii. All emissions monitoring information, in accordance with 40 CFR 96, Subpart H, (provided that to the extent that 40 CFR 96, Subpart H, provides for a three year period for retaining records, the three year period shall apply,) pursuant to 35 IAC 217.756(e)(1)(B).

iii. Copies of all reports, compliance certifications, and other submissions and all records made or required under the NO_x Trading Program or documents necessary to demonstrate compliance with requirements of the NO_x Trading Program, pursuant to 35 IAC 217.756(e)(1)(C).

iv. Copies of all documents used to complete a budget permit application and any other submission under the NO_x Trading Program, pursuant to 35 IAC 217.756(e)(1)(D).

g. Reporting Requirements for Budget EGUs

i. The account representative for this source and each budget EGU at this source shall submit to the Illinois EPA and USEPA the reports and compliance certifications required under the NO_x Trading Program, including those under 40 CFR 96, Subparts D and H and 35 IAC 217.774, pursuant to 35 IAC 217.756(e)(2).

ii. These submittals need only be signed by the designated representative, who may serve in place of the responsible official for this purpose as provided by Section 39.5(1) of the Environmental Protection Act, and submittals to the Illinois EPA need only be made to the Illinois EPA, Air Compliance Section.

h. Allocation of NO_x Allowances to Budget EGUs

i. For the first four control periods that a budget EGU identified in Condition 3.2(b) operates, it will not be entitled to direct allocations of NO_x allowances because the EGU will be considered a "new" budget EGU, as defined in 35 IAC 217.768(a)(1).

ii. A. After the first four control periods, as addressed above, the budget EGU will cease to be "new" budget EGU and the source will be entitled to an allocation of NO_x allowances for the budget EGU as provided in 35 IAC 217.764. For example, for 2010, the allocation of NO_x allowances will be governed by 35 IAC 217.764(e)(2) and (b)(4).

B. In accordance with 35 IAC 217.762, the theoretical number of NO_x allowances for these budget EGUs, calculated as the product of the applicable NO_x emissions rate and heat input, as follows, shall be the basis for determining the allocation of NO_x allowances to these EGUs:

1. As provided by 35 IAC 217.762(a)(2), the applicable NO_x emission rates for these EGUs is 0.07 lb/million Btu. This is the permitted emission rates for these EGUs as contained in Condition 2.1.2(b)(iii). The permitted NO_x emission rate is the applicable rate because it is between 0.15 lb/million Btu and 0.055 lb/million Btu, as provided by 35 IAC 217.762(a)(2).

2. The applicable heat input (million Btu/control period) shall be the average of the two highest heat inputs from the control periods four to six years prior to the year for which the allocation is being made, as provided by 35 IAC 217.762(b)(1).

j. Eligibility for NO_x Allowances from the New Source Set-Aside (NSSA)

The Permittee is eligible to obtain NO_x allowances for the budget EGU identified in Condition 3.2(b) from the NSSA, as provided by 35 IAC 217.768, because the budget EGU are "new" budget EGU.

k. Eligibility for Early Reduction Credits

The Permittee is not eligible to request NO_x allowances for the budget EGU identified in Condition 3.2(b) for any early reductions in NO_x emissions, as provided by 35 IAC 217.770.

1. Budget Permit Required by the NO_x Trading Program

   i. For this source, this condition of this permit, i.e., Condition 3.2, is the Budget Permit required by the NO_x Trading Program and is intended to contain federally enforceable conditions addressing all applicable NO_x Trading Program requirements. This Budget Permit shall be treated as a complete and segregable portion of this permit, as provided by 35 IAC 217.758(a)(2).

   ii. The Permittee and any other owner or operator of this source and each budget EGU at the source shall operate the budget EGU in compliance with this Budget Permit, pursuant to 35 IAC 217.756(b)(2).

   iii. No provision of this Budget Permit or the associated application shall be construed as exempting or excluding the Permittee, or other owner or operator and, to the extent applicable, the account representative of a budget source or budget EGU from compliance with any other regulation or requirement promulgated under the Clean Air Act, the Environmental Protection Act, the approved State Implementation Plan, or other federally enforceable permit, pursuant to 35 IAC 217.756(g).

   iv. Upon recordation by USEPA, under 40 CFR 96, Subparts F or G, or 35 IAC 217.782, every allocation, transfer, or deduction of an allowance to or from the budget EGUs' compliance accounts or to or from the overdraft account for the budget source is deemed to amend automatically, and become part of, this budget permit, pursuant to 35 IAC 217.756(d)(8). This automatic amendment of this budget permit shall be deemed an operation of law and will not require any further review.

   v. No revision of this Budget Permit shall excuse any violation of the requirements of the NO_x Trading Program that occurs prior to the date that the revision to this permit takes effect, pursuant to 35 IAC 217.756(f)(1).

   vi. The Permittee, or other owner or operator of the source, shall reapply for a Budget Permit for the source as required by 35 IAC Part 217, Subpart W and Section 39.5 of the Act. For purposes of the NO_x Trading Program, the application shall contain the information specified by 35 IAC 217.758(b)(2).

SECTION 4: GENERAL PERMIT CONDITIONS

CONDITION 4.1: STANDARD CONDITIONS

Standard conditions for issuance of construction permits, attached hereto and incorporated herein by reference, shall apply to this project, unless superseded by other conditions in the permit.

CONDITION 4.2: GENERAL REQUIREMENTS FOR EMISSION TESTING

a. i. At least 60 days prior to the actual date of initial emission testing required by this permit, a written test plan shall be submitted to the Illinois EPA for review. This plan shall describe the specific procedures for testing and shall include at a minimum:

A. The person(s) who will be performing sampling and analysis and their experience with similar tests.

B. The specific conditions, e.g., operating rate and control device operating conditions, under which testing shall be performed including a discussion of why these conditions will be representative and the means by which the operating parameters will be determined.

C. The specific determinations of emissions that are intended to be made, including sampling and monitoring locations. As part of this plan, the Permittee may set forth a strategy for performing emission testing in the normal load range of the boiler.

D. The test method(s) that will be used, with the specific analysis method if the method can be used with different analysis methods.

ii. As provided by 35 IAC 283.220(d), the Permittee need not submit a test plan for subsequent emissions testing that will be conducted in accordance with the procedures used for previous tests accepted by the Illinois EPA or the previous test plan submitted to and approved by the Illinois EPA, provided that the Permittee's notification for testing, as required below, contains the information specified by 35 IAC 283.220(d)(1)(A), (B) and (C).

b. i. The Permittee shall notify the Illinois EPA prior to performing emissions testing required by this permit to enable the Illinois EPA to observe the tests. Notification for the expected date of testing shall be submitted a minimum of 30 days* prior to the expected date, and identify the testing that will be performed. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days* prior to the actual date of testing.

* For a particular test, the Illinois EPA may at its discretion accept shorter advance notification provided that it does not interfere with the Illinois EPA's ability to observe testing.

ii. This notification shall also identify the parties that will be performing testing and the set or sets of operating conditions under which testing will be performed.

c. Three copies of the Final Reports for emission tests shall be forwarded to the Illinois EPA within 30 days after the test results are compiled and finalized but not later than 90 days after the date of testing. At a minimum, the Final Report for testing shall contain:

i. General information, i.e., testing personnel and test dates;

ii. A summary of results;

iii. Description of test method(s), including a description of sampling points, sampling train, analysis equipment, and test schedule;

iv. The operating conditions of the emission unit and associated control devices during testing; and

v. Data and calculations, including copies of all raw data sheets and records of laboratory analysis, sample calculations, and data on equipment calibration.

CONDITION 4.3: REQUIREMENTS FOR RECORDS FOR DEVIATIONS

Except as specified in a particular provision of this permit or in a subsequent CAAPP Permit for the plant, records for deviations from applicable emission standards and control requirements shall include at least the following information: the date, time and estimated duration of the event; a description of the event; the manner in which the event was identified, if not readily apparent; the probable cause for deviation, if known, including a description of any equipment malfunction/breakdown associated with the event; information on the magnitude of the deviation, including actual emissions or performance in terms of the applicable standard if measured or readily estimated; confirmation that standard procedures were followed or a description of any event-specific corrective actions taken; and a description of any preventative measures taken to prevent future occurrences, if appropriate.

CONDITION 4.4: RETENTION AND AVAILABILITY OF RECORDS

Except as specified in a particular provision of this permit or in a subsequent CAAPP Permit for the plant, all records, including written procedures and logs, required by this permit shall be kept at a readily accessible location at the plant and be available for inspection and copying by the Illinois EPA and shall be retained for at least five years.

CONDITION 4.5: NOTIFICATION AND REPORTING OF DEVIATIONS

Except as specified in a particular provision of this permit or in a subsequent CAAPP Permit for the plant, notifications and reports for deviation from applicable emission standards and control requirements shall include at least the following information: the date and time of the event, a description of the event, information on the magnitude of the deviation, a description of the corrective measures taken, and a description of any preventative measures taken to prevent future occurrences.

CONDITION 4.6: GENERAL REQUIREMENTS FOR NOTIFICATION AND REPORTS

a. i. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

ii. As of the date of issuance of this permit, the addresses of the office that should generally be utilized for the submittal of reports and notifications are as follows:

A. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Bureau of Air
Compliance and Enforcement Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

B. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

C. USEPA Region 5 - Air Branch

USEPA (AE-17J)
Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

b. The Permittee shall submit Annual Emission Reports to the Illinois EPA in accordance with 35 IAC Part 254. For hazardous air pollutants, these reports shall include emissions information for at least the following pollutants: hydrogen chloride, hydrogen fluoride, mercury, arsenic, beryllium, cadmium, chromium, lead, manganese, and nickel.

ATTACHMENTS

ATTACHMENT 1: TABLES

Table I

Emission Limitations for Coal-Fired Boilers

Pollutant	Individual Boiler			Combined Tons/Year[b]
	Lb/Million Btu[a]	Lb/Hour	Tons/Year[b]	
NO_x	0.07	893, 24-Hour Average[c]	2,282	4,564
CO	0.12[d]	893, 24-Hour Average	3,912	7,824
VOM	0.004	29.8, 3-Hour Average	130	260
SO_2	0.182	3,126, 24-Hour Average[e]	5,933	11,866
PM/PM_{10} Filterable[f]	0.015	112, 3-Hour Average	490	980
PM_{10} Total	0.035[g]	261, 3-Hour Average[h]	1,143[h]	2,286[h]
Sulfuric Acid Mist	0.005	37.1, 3 Hour Average	162.5	325
Fluorides[i]	0.00026	2.0, 3-Hour Average	8.75	17.5
Lead[j]	----	0.0678, 3-Hour Average	0.295	0.594
Mercury	----	0.016, 3-Hour Average[k]	0.07	0.14
Beryllium	----	0.0085, 3-Hour Average[k]	0.0371	0.0742
Hydrogen Chloride	----	24.4, 3-Hour Average[k]	107.0	214.0

Notes:

[a] Compliance with the emission rates expressed in pound/million Btu heat input shall be determined in accordance with the provisions in Condition 2.1.2(b).

[b] These limitations address all emissions from the boiler(s), including emissions that occur during periods of startup, shutdown and malfunction addressed by Condition 2.1.6.

[c] This limitation does not apply during startup and shutdown. The emissions of NO_x from the boilers during such periods are addressed by the BACT limit for NO_x, which applies as a 30-day average.

[d] This emission rate does not apply for startup or shutdown of a boiler. The emissions of CO from a boiler during such periods are addressed by a limitation expressed in pounds/hour, 24-hour average basis, which is the product of the design capacity of the boiler, in million Btu/hr, and the otherwise applicable BACT limit in lb/million Btu.

[e] This limitation is reduced to 2,450 lb/hour, daily average, no later than 24 months after initial startup of a boiler, pursuant to Condition 2.1.7(a)(i), and emissions may also be further restricted, pursuant to Condition 2.1.16, Optimization of Daily Control of SO_2 Emissions.

[f] All particulate matter (PM) measured by USEPA Method 5 shall be considered PM_{10} unless PM emissions are tested by USEPA Method 201 or 201A, as specified in 35 IAC 212.108(a). These PM limits do not address condensable particulate matter.

[g] This limit, which addresses both filterable and condensable PM_{10}, is subject to reduction pursuant to Condition 2.1.17, Revision of Total PM_{10} Emission Limit Based on Results of Emission Testing.

[h] If the limit for total PM_{10} emissions is reduced pursuant to Condition 2.1.17, this limitation shall also be reduced on a pro-rata basis.

[i] The limit for fluorides is expressed in terms of hydrogen fluorides.

[j] The limit for lead is expressed in terms of elemental lead. As this limit is applicable during startup, shutdown and malfunction, compliance shall be determined by engineering analysis and calculations.

[k] This limit does not apply during periods of startup, shutdown and malfunction, as addressed by Condition 1.4.

TABLE II

Particulate Matter (PM) Emission Limitations for Bulk Material Operations
(Pounds per Hour and Tons per Year)

Emission Units	Application Designation	Pounds/Hour	Tons/Year
Coal/Limestone Receiving &Handling and Coal Preparation			
Conveyor Unloading, Transfer House, Crusher Building, Hoppers, etc., except as below	EP1, EP2, EP16B, EP41B, EP44, EP45, EP48, EP49, EP50B, EP102, EP105	0.479	2.10
Limestone Reclaim	EP17, EP39	0.156	0.68
Material Storage	EP40A, EP40B, EP40c, EP58, EP 62, EP103	3.411	14.95
Subtotal		4.046	17.73
Limestone Preparation			
Preparation Equipment, Mill System and Bins	EP75A, EP75B	0.002	0.01
Subtotal		0.002	0.01
Waste and Ash Handling and Loadout			
Bottom Ash Silos, Transport Systems, Fly Ash Silos, Waste Bin, Etc.	EP14, EP78, EP80, EP107	0.154	0.67
Subtotal		0.154	0.67
Total		4.202	18.4

ATTACHMENT 2: STANDARD PERMIT CONDITIONS

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.

2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Illinois EPA and a supplemental written permit issued.

4. The Permittee shall allow any duly authorized agent of the Illinois EPA upon the presentation of credentials, at reasonable times:

   a. To enter the Permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,

   b. To have access to and to copy any records required to be kept under the terms and conditions of this permit,

   c. To inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,

   d. To obtain and remove samples of any discharge or emissions of pollutants, and

   e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,

   b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities.

   c. Does not release the Permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations.

   d. Does not take into consideration or attest to the structural stability of any units or parts of the project, and

   e. In no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Illinois EPA before the equipment covered by this permit is placed into operation.

b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.

7. The Illinois EPA may file a complaint with the Board for modification, suspension or revocation of a permit.

   a. Upon discovery that the permit application contained misrepresentations, misinformation or false statement or that all relevant facts were not disclosed, or

   b. Upon finding that any standard or special conditions have been violated, or

   c. Upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

ATTACHMENT 3: ACID RAIN PERMIT

217-782-2113

ACID RAIN PROGRAM PERMIT

Prairie State Generating Company, LLC
Attn: Mr. Lars W. Scott, Designated Representative
701 Market Street, Suite 781
St. Louis, Missouri 63010

Oris No.:	55856
Illinois EPA I.D. No.:	189808AAB
Source/Unit:	Prairie State Generating Company, LLC, Units 01 and 02
Date Received:	October 11,2002
Date Issued:	January 14, 2005
Effective Date:	January 1, 2007
Expiration Date:	December 31, 2011

STATEMENT OF BASIS:

In accordance with Section 39.5(17)(b) of the Illinois Environmental Protection Act and Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program permit for the Prairie State Generating Station.

SULFUR DIOXIDE (SO_2) ALLOCATIONS AND NITROGEN OXIDE (NO_X) REQUIREMENTS FOR EACH AFFECTED UNIT:

Unit 01 and Unit 02	SO_2 Allowances	These units are not entitled to an allocation of SO_2 allowances pursuant to 40 CFR Part 73.
	NO_x Emission Limitation	These units are subject to a NO_x emissions limitation under 40 CFR Part 76.

This Acid Rain Program permit contains provisions related to sulfur dioxide (SO_2) emissions and requires the owners and operators to hold SO_2 allowances to account for SO_2 emissions beginning in the year 2000. An allowance is a limited authorization to emit up to one ton of SO_2 during or after a specified calendar year. Although this plant is not eligible for an allowance allocated by USEPA, the owners or operators may obtain SO_2 allowances to cover emissions from other sources under a marketable allowance program. The transfer of allowances to and from a unit account does not necessitate a revision to this permit (See 40 CFR 72.84).

This permit contains provisions related to nitrogen oxide (NO_x) emissions requiring the owners or operators to monitor NO_x emissions from affected units in accordance with the applicable provisions of 40 CFR Part 75.

This Acid Rain Program permit does not authorize the construction and operation of the affected units as such matters are addressed by Titles I and V of the Clean Air Act. If the construction and operation of one of the affected units is not undertaken, this permit shall not cover such unit.

In addition, notwithstanding the effective date of this permit as specified above, this permit shall not take effect for an individual affected unit until January 1 of the year in which the unit commences operation.

COMMENTS, NOTES AND JUSTIFICATIONS:

This permit does not affect the owners and operators responsibility to meet all other applicable local, state, and federal requirements, including requirements addressing SO_2 and NO_x emissions.

PERMIT APPLICATION:

The SO_2 allowance requirements and other standard requirements as set forth in the application are incorporated by reference into this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

If you have any questions regarding this permit, please contact Shashi Shah at 217/782-2113.

ORIGINAL SIGNED BY DONALD E. SUTTON

Donald E. Sutton, P.E.
Manager, Permits Section
Division of Air Pollution Control

DES:SRS:jar

cc: Cecilia Mijares, USEPA Region V
Illinois EPA Region 3

ATTACHMENT 4:

DETERMINING THE SORBENT INJECTION RATE FOR CONTROL OF MERCURY EMISSIONS FROM THE COAL-FIRED BOILERS

1. Purpose

This attachment contains the requirements for the sorbent injection systems for control of mercury emissions from the coal-fired boilers if the boilers are subject to Condition 2.1.2(c)(ii)(A) and the Permittee elects to comply with Permit Option B, i.e., use of a control system for mercury emissions. Among other matters, this attachment defines the process by which the applicable injection rate of sorbent for such systems will be determined. These requirements are included as an attachment to this permit, rather than in the body of the permit, due to the detailed nature of the requirements and the likelihood that these requirements will never take effect, as the emissions of mercury from the coal-fired boiler are subject to requirements adopted by USEPA pursuant to the Clean Air Act.

2. General Requirements

a. The sorbent injection systems, including the selected sorbent(s) shall be designed, constructed and maintained in accordance with good air pollution control practices. For this purpose, sorbent(s) shall be used, such as treated activated carbon, that have been demonstrated to have high levels of effectiveness in similar boiler/control device applications (or pilot tests on an affected boiler). The systems shall have ample capacity to handle and inject such sorbent(s), and the location, number and type of injection ports designed for effective distribution of sorbent in the flue gas. The Permittee shall submit a demonstration to the Illinois EPA showing that the proposed sorbent injection systems meet these criteria, for review and approval by the Illinois EPA.

b. i. The sorbent injection systems shall each be operated to inject sorbent at a rate, in lb/million Btu or lb/scf of flue gas, that is at least at the rate that has been determined to represent the maximum practicable degree of removal for mercury, as previously established pursuant to an evaluation of the effectiveness of the sorbent for control of mercury conducted in accordance with Condition 3 or 4, below. This rate shall be maintained while coal is being fired in the boiler, including periods of startup and shutdown of the boiler.

ii. Notwithstanding the above, for purposes of evaluating the performance of sorbent(s), the Permittee may operate without the sorbent injection system in service or at low rates of sorbent injection as necessary to (1) to prepare for the formal evaluation of a sorbent, i.e., flushing residual sorbent from the boiler and control train, and (2) determine the "performance curve", provided that the number and duration of such operation is minimized to the extent reasonably

necessary for this purpose. (Refer to Paragraph 5(a), below, for the definition of the performance curve.) The Permittee may also conduct pilot tests to confirm suitability of a potential sorbent prior to a detailed evaluation, with prior notification to the Illinois EPA describing such tests and the available data indicating the suitability of the sorbent material for effective control of mercury.

3. Initial Evaluation of the Effectiveness of Sorbent Injection and Establishment of the Optimum Sorbent Injection Rate

a. The Permittee shall perform an evaluation of the effectiveness of injecting sorbent(s) for control of mercury in accordance with a plan submitted to the Illinois EPA for review and comment.

i. The Permittee shall submit the initial plan to the Illinois EPA no later than 180 days after initial start-up of a boiler.

ii. The Permittee shall promptly begin this evaluation after a boiler demonstrates compliance with all applicable short-term emission limits as shown by emission testing and monitoring. At this time, the Permittee shall submit an update to the plan that describes its findings with respect to control of mercury emissions during the shakedown of the boilers, which highlights possible areas of interest for this evaluation.

iii. This evaluation shall be completed and a detailed written report submitted to the Illinois EPA within two years after the initial startup of a boiler. This report shall include proposed injection rate limit(s) for mercury emissions. (See Condition 3(d)(i), below.)

iv. This deadline may be extended by the Illinois EPA for an additional year if the Permittee submits an interim report (1) demonstrating the need for additional data to effectively evaluate sorbent injection and (2) includes an interim limit for mercury injection that provides effective control of mercury.

b. i. If the Permittee is conducting monitoring for mercury emissions with a continuous method, the plan shall provide for systematic review of mercury emissions as related to variation in operation of the boiler, within the normal range of boiler operation, including the effect of (1) boiler load and combustion settings, including excess oxygen, (2) operating data for the SCR system, including the level of uncontrolled NO_x before the SCR, as predicted from boiler operating data, (3) operating data for the scrubber, including pH of the scrubbant, and (4) operating data for the wet WESP. As an alternative to reliance on the measurements from a continuous monitoring system, the Permittee may also supplement its monitoring with semi-continuous monitoring, as provided below.

ii. If the Permittee is conducting monitoring for mercury emissions with a semi-continuous method, the sampling periods shall be of an appropriate duration to cover a representative selection of operation of the boiler.

c. In conjunction with such measurements of mercury emissions, the Permittee shall sample and analyze the fuel supply to the boiler so that representative data for the mercury content of the fuel supply is available that correlates with emission measurements.

d. i. Unless the Permittee elects to conduct a supplementary investigation, as provided below, the maximum practicable degree of removal shall be injection of sorbent at a rate that is twice the rate at the "transition point" from the performance curve. (Refer to Paragraph 5(b), below, for the definition of the transition point.) The sorbent injection systems shall be operated at this rate.

ii. The Permittee may elect to conduct a supplemental investigation of the effectiveness of injection of sorbent(s) to determine whether effective control of mercury, as generally required, is achieved with lower (or higher) injection rates considering the operating rate or other relevant operating parameters of the boilers or control train, excluding periods of startup and shutdown of boilers. For this purpose, the Permittee shall conduct additional measurements and develop additional performance curves for the control of mercury emissions for the boilers under such operating conditions. In the report for the evaluation, the Permittee shall explain why such operating conditions affect the control of mercury emissions, provide the criteria for identification of such operating conditions, and identify the rates at which the sorbent injection system must be operated during such conditions, determined as twice the rate at the "transition point" on the applicable performance curve.

4. Subsequent Evaluation of the Effectiveness of Sorbent Injection and Adjustment of the Optimum Sorbent Injection Rate

a. The Permittee shall repeat the evaluation described in Condition 3, above, in the following circumstances:

i. If the initial evaluation of sorbent injection does not demonstrate that 90 percent or more overall control of mercury will be achieved, a new evaluation shall be commenced two years after the initial evaluation was completed.

ii. If the Permittee undertakes significant changes to the mercury control system, e.g., use of a different sorbent or changes in the location or type of injection ports, at the conclusion of such changes.

iii. If the Permittee undertakes significant changes to other devices in the control train, e.g., use of a different catalyst in the SCR or changes in the chemistry of the scrubber which would generally act to reduce the effectiveness of those devices in controlling or facilitating the control of mercury emissions, at the conclusion of such changes.

iv. If requested by the Illinois EPA for purposes of periodic confirmation of the effectiveness of sorbent injection, which request shall not be made more than once every five years.

v. If the Permittee elects to perform such evaluation, provided, however that the Permittee shall explain why such an evaluation is being undertaken if it is less than two years after completion of the last evaluation.

b. For the purpose of subsequent evaluation, the plan shall be submitted to the Illinois EPA for review and approval at least 45 days before undertaking changes that trigger the need to perform such an evaluation and the evaluation shall be completed in one year, with opportunity for a 6-month extension.

c. As a subsequent evaluation reassesses the continuing operation of the boilers or addresses the future operation of the boilers, the results of the evaluation shall supersede the results of the preceding evaluation and thereafter govern the operation of the sorbent injection systems. For example, if the subsequent evaluation was performed for a new sorbent material and the boilers continue to be operated with such sorbent, operation shall be governed by the results of the subsequent evaluation. If the new sorbent will not continue to be used, operation shall be governed by the results of the preceding evaluation for the sorbent material that will be used.

5. Definition of Terms As Related to Sorbent Injection for Control of Mercury Emissions

For the purpose of these conditions, the following terms shall apply:

a. The "performance curve" is a graphical representation of the effectiveness of a particular sorbent in controlling mercury emissions, comparing the effectiveness of control with increasing rates of sorbent injection.

A performance curve for injection of a particular sorbent material is established by conducting a series of tests under representative operating conditions of the boiler to measure mercury emissions at different rates of sorbent injection (typically starting from zero sorbent to high rates of sorbent injection). For the purpose of presenting data, mercury emissions and sorbent injection rates are expressed in terms of the heat input to the boiler, in million or trillion Btu. This accounts for any differences in the heat input during each test.

In conjunction with these measurements of mercury emissions, the coal supply to the boiler is analyzed for its mercury content. This allows the effect of the sorbent to be expressed in terms of control efficiency, calculated from the mercury emissions and the amount of mercury present in the coal entering the boiler. This also addresses any variation in the mercury content of the coal supply to the boiler, so that another potential cause for variation in emissions is directly accounted for. Otherwise, changes in emissions due to variation in mercury content of coal could not be accounted for and would be incorrectly assumed to be due to changes in the rate of sorbent. The resulting data for the relationship between control efficiency for mercury emissions and the sorbent injection rate is then portrayed in graphical form with a trendline that summarizes this relationship and the performance of the particular sorbent for control of emissions.

b. The "transition point" is the theoretical point where the extensions of two straight lines on the performance curve for a particular sorbent, one representing the initial regime for control of mercury emissions and the other representing the terminal regime for control of emissions, would intersect. Effectively, the transition portion on the performance curve prepared from the evaluation of a particular sorbent is simplified to a single point, the "transition point."

In this regard, the performance curves for control of mercury emissions for different sorbent materials and boilers show a consistent form with two different regimes for control effectiveness, an initial regime and a terminal regime, separated by a transition. In the initial regime, there is a relatively strong effect for control of mercury with injection of sorbent. This appears on the left side of the graph, as the trendline starts from the edge of the graph for the level of control for mercury that is achieved without injection of any sorbent. In the terminal regime, there is a much weaker effect for control of mercury by additional injection of sorbent material. This appears on the right side of the graph, as a nearly flat or flat trendline starting from the left side of the graph. In the transition separating the two regimes, the effect of sorbent injection gradually shifts from one regime to the other. Such transitions on graphs of this form are commonly referred to as "shoulders," given the resemblance to a human shoulder.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506 – (217) 782-2113

ROD R. BLAGOJEVICH, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

217/782-2113

CONSTRUCTION PERMIT

PERMITTEE

Prairie State Generating Company
Attn: Peter Dequattro
1941 Frank Scott Parkway East
Shiloh, Illinois 62269

Application No.: 08010051 I.D. No.: 189808AAB
Applicant's Designation: Date Received: January 28, 2008
Subject: Lime and Activated Carbon Injection Systems
Date Issued: July 24, 2008
Location: Marigold Road and County Highway 12, Marissa

Permit is hereby granted to the above-designated Permittee to CONSTRUCT equipment consisting of lime and activated carbon injection systems on each coal-fired boiler and associated material handling facilities, as described in the above referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This Permit authorizes construction of a lime injection system and an activated carbon injection system (the affected systems) on each coal-fired boiler (the affected boiler). The affected systems would be used to enhance control of emissions of mercury, hydrogen chloride, and other acid gases from the affected boilers by injecting lime and activated carbon into the ductwork prior to the electrostatic precipitator (ESP) on each boiler. Other than the construction of affected systems for the affected boilers, this permit does not authorize any changes to the affected boilers.

b. This permit is issued based on this project being an emissions control project that was addressed by the construction permit issued for the source (Construction Permit 01100065, Condition 2.1.15), whose purpose and effect will be to reduce emissions of the affected boilers to comply with the requirements of the 35 IAC Part 225, Subpart B, and the requirements of the case-by-case Maximum Achievable Control Technology (MACT) determination for emissions of hazardous air pollutants made under Section 112(g) of the Clean Air Act (CAA) in the Construction Permit for the source (Permit No. 01100065). As such, the terms and conditions of the existing permit will continue to govern emissions and operation of the boilers and the source and this permit does not relax or otherwise revise any requirements that apply to the source, including applicable emissions limits or provisions for monitoring, testing, recordkeeping, and reporting.

c. At all times, the Permittee shall, to the extent practicable, maintain and operate the affected systems and associated material handling facilities in a manner consistent with good air pollution control practice for minimizing emissions from the affected boilers and the source.

2a. For each affected boiler, in addition to other applicable requirements, the Permittee shall comply with the applicable emission standards or work practices and associated testing, sampling, monitoring, recordkeeping, and reporting requirements of the 35 IAC Part 225, Subpart B, by the applicable dates specified in these rules.

b. Subject to the following provisions, if an affected boiler is complying with 35 IAC Part 225, Subpart B, by means of 35 IAC 225.238, Temporary Technology-Based Standard for New Sources with EGUs, the Permittee is authorized to operate the boiler during startup in violation of the applicable requirements of 35 IAC 225.238(c). This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization, generally explaining that injection of activated carbon during startup, before the boiler has achieved stable operation, could pose a safety risk for personnel and equipment and describing the measures that that would be taken to minimize emissions during startups.

i. The Permittee shall make all reasonable efforts to minimize emissions from startup of the affected boilers.

ii. The Permittee shall conduct startup of the affected boilers in accordance with written procedures prepared by the Permittee that are specifically developed to minimize emissions during startups, including emissions of mercury, which procedures shall be part of the Startup Shutdown and Malfunction Plan required for the affected boilers by Condition 1.4 of Construction Permit 01100065.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 5(a)(i) and 8(a).

iv. This authorization does not relieve the Permittee from the continuing obligation to minimize emissions of mercury during startup. As provided by 35 IAC 201.265, an authorization in a permit for operation with a violation during startup does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

v. For each affected boiler, this authorization will end on December 31, 2018, or such earlier date that the Permittee begins complying with 35 IAC Part 225, Subpart B, by a means other than 35 IAC 225.233(c), i.e., compliance by means of Emission Standards for New Sources with EGUs, 35 IAC 225.237.

c. Subject to the following provisions, if an affected boiler is complying with 35 IAC Part 225 by means of 35 IAC 225.238, the Permittee is authorized to continue operation of the boiler in violation of the applicable requirements of 35 IAC 225.238(c) in the event of a malfunction or breakdown of the sorbent injection system for the boiler

or the associated sorbent storage and handling system. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization, generally explaining why such continued operation would be required to provide essential service and describing the measures that would be taken to minimize emissions from any malfunctions and breakdowns.

i. This authorization only allows such continued operation of an affected boiler as necessary to provide essential service and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of a violation of 35 IAC 225.238(c)(2) due to malfunction or breakdown, the Permittee shall as soon as practicable reduce boiler load, repair the sorbent injection system, remove the affected boiler from service or undertake other action so that the violation ceases.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 5(a), 7(a), and 8(b). For these purposes, time shall be measured from the start of a particular incident. The absence of a violation for a short period shall not be considered to end an incident if violations resume. In such circumstances, the incident shall be considered to continue until corrective actions are taken so that violations cease or the Permittee takes the boiler out of service.

iv. Following notification to the Illinois EPA for a malfunction or breakdown, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with a violation during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

vi. For each affected boiler, this authorization will end on December 31, 2018, or such earlier date that the Permittee begins complying with 35 IAC Part 225 by a means other than 35 IAC 225.238, i.e., compliance by means of 35 IAC 225.237.

Note: This permit does not address continued operation of the affected boilers in violation of the applicable requirements of the case-by-case determination of Maximum Achievable Control Technology (MACT) during startup or malfunction because this is already addressed by the provisions of 40 CFR 63.6(e). (Refer to Construction Permit 01100065, Conditions 1.4 and 2.1.2(c)(ii)(B).)

3a. This permit is issued based on negligible particulate matter (PM) emissions from the storage and handling of lime and activated carbon for the affected systems. For this purpose, emissions from storage and handling of these materials shall not exceed 0.1 lb/hour and 0.4 ton/year.

b. The particulate matter emissions from the source for storage and handling of lime and activated carbon shall be included when determining compliance with the limits for total emissions in Condition 2.2.7 of Construction Permit 01100065, which limits addresses emissions from material handling facilities at the source.

c. The affected systems and associated material handling facilities shall comply with applicable standards in 35 IAC Part 212 for opacity and particulate matter emissions.

4a. The Permittee shall install, operate, and maintain instrumentation on each affected carbon injection system to measure activated carbon feed rate, flue gas temperature at the point of carbon injection, and exhaust gas flow from the associated affected boiler on an hourly average basis. [See also 35 IAC 225.238(c)(2)(A).]

b. The Permittee shall install, operate and maintain instrumentation on each lime injection system to measure and record the rate of lime injection on an hourly average basis.

5a. The Permittee shall maintain the following records for the each affected system:

i. An operating log or other records for the system that, at a minimum, identify the sorbent that is being used and each period of time when the affected boiler was in operation when the system was not being operated or was not operating to meet applicable or established work practices, the nature of the incident, e.g., startup or shutdown of the affected boiler, malfunction or breakdown of the system or the associated sorbent supply system or alternative mode of operation pursuant to an approved system evaluation program, and detailed description or explanation for the incident.

ii. A maintenance and repair log or other records for the system that, at a minimum, list the activities performed, with date and description.

6. The Permittee shall retain all records required by this permit at the source for at least 5 years from the date of entry and these records shall be readily accessible to the Illinois EPA for inspection and copying, upon request.

7a. Pursuant to 35 IAC 201.263, the Permittee shall provide the following notifications and reports to the Illinois EPA for incidents when

operation of an affected boiler continued during malfunction or breakdown with a violation of 35 IAC 225.238(c), as addressed by Condition 2(c).

i. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) if the duration of a violation exceeds or may exceed 24 hours. (Otherwise, if the duration of the violation is no more than 24 hours, the Permittee need only report the incident in accordance with Condition 7(b)(ii).)

ii. Upon conclusion of any incident that is 72 hours or more in duration, the Permittee shall submit a written follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed description of the incident and its cause(s), an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or the affected boiler was taken out of service.

b. The Permittee shall notify the Illinois EPA of deviations from the requirements of this permit as follows. These notifications shall include a description of the deviation and the probable causes, a copy of relevant records, a description of the corrective actions taken, and a description of the preventative measures taken to avoid similar future occurrences.

i. For deviations addressed by 35 IAC Part 225, Subpart B, in accordance with the applicable notification and reporting requirements of this subpart.

ii. For all other deviations, with the periodic compliance reports required for the affected boilers, unless otherwise specified in the CAAPP permit for the source.

8. The Permittee shall submit periodic reports to the Illinois EPA that include the following information for incidents during the quarter in which affected boilers operated or continued to operate during startup or malfunction or breakdown with violations of 35 IAC 225.238(c). These reports shall be submitted with the periodic reports submitted for the boilers.

a. For startups of each affected boiler:

i. A listing of startups, in chronological order, including date and description, and the length of time that coal was fired before injection of sorbent was initiated.

ii. The aggregate duration of operation without injection of sorbent during startups during the reporting period (hours).

iii. If there have been no startups of the boiler without injection of sorbent during the reporting period, this shall be stated in the report.

b. For malfunctions and breakdowns for each affected boiler:

i. A listing of malfunctions and breakdowns, in chronological order, that includes: (1) the date, time, and duration of each incident, (2) the identity of the affected boiler involved in the incident, and (3) whether a follow-up notice was submitted for the incident pursuant to Condition 7(a)(ii), with the date of the notice.

ii. The detailed information for each such incident required pursuant to Condition 7(a) (as each incident constitutes a deviation) and Condition 7(b)(ii). For this purpose, the Permittee need not resubmit information provided in a prior report for an incident, as identified above, but may elect to supplement the prior submittal.

iii. The aggregate duration of all incidents during the reporting period (hours).

iv. If there have been no such incidents during the reporting period, this shall be stated in the report.

9. Two copies of required reports and notifications shall be sent to the Illinois EPA's Compliance Section at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Regional Office/Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

10. The affected systems and associated material handling facilities may be operated pursuant to this construction permit provided that the Permittee submits a timely CAAPP operating permit application to the Illinois EPA for the source.

If you have any questions on this permit, please call Kunj Patel at 217/782-2113.

Edwin C. Bakowski

Edwin C. Bakowski, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

Date Signed: July 24, 2008

ECB:CPR:KMP:jws

cc: Region 3

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

CAAPP APPLICATION INCORPORATION BY REFERENCE

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

SECTION ONE SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO INSTRUCTIONS IN BRIEF

1. COMPLETE THIS FORM IF THE APPLICANT REQUESTS TO UTLIZE INFORMATION PROVIDED IN A PRIOR CAAPP APPLICATION. INCORPORATION BY REFERENCE MAY BE IN FULL OR IN PART OF THE APPLICATION. THE MATERIAL INCORPORATED MUST REMAIN CORRECT, CURRENT, AND COMPLETE.
2. COMPLETE SECTION THREE IF THE APPLICANT REQUESTS TO INCORPORATE AN ENTIRE APPLICATION. COMPLETE SECTION FOUR IF THE APPLICANT REQUESTS TO INCORPORATE ONLY PORTIONS OF AN APPLICATION. IN EITHER CASE, IDENTIFY AND DESCRIBE THE ITEM TO BE INCORPORATED (E.G., STEAM PLANT, NOX CONTROL SYSTEM, TANKS 32-38, ETC.) AND THE PAGE NUMBERS IN THIS APPLICATION WHERE THE INCORPORATED PAGES WILL BE PLACED, AND FOR PARTIAL INCORPORATIONS THE PAGE NUMBERS FROM THE APPLICATION TO INCORPORATE FROM.
3. UTILIZE A PLACEHOLDER IN THE APPLICATION NOTING THE INCORPORATION BY REFERENCE.
4. BE SURE THE PORTIONS OF THE 200-CAAPP WHICH ADDRESS INCORPORATIONS BY REFERENCE CORRECTLYREFLECT THE INFORMATION CONTAINED ON THIS FORM.REFER TO CAAPP 200 INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.
5. THE ILLINOIS EPA ENCOURAGES APPROPRIATE USE OF INCORPORATION BY REFERENCE, WHICH GENERALLY INCLUDES THOUGHTFULLY INCORPORATING LARGE GROUPS OF INFORMATION (E.G., STEAM PLANT) TO FACILITATE THE PERMITTING PROCESS FOR THE PERMITTEE AND THE ILLINOIS EPA.
6. REFER TO 287-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE INCORPORATE ALL MATERIAL FROM A PRIOR APPLICATION

IS THE APPLICANT REQUESTING TO INCORPORATE AN ENTIRE APPLICATION(S)? ☒ YES ☐ NO

IF YES, COMPLETE THE FOLLOWING:

	DESCRIPTION OF MATERIAL TO BE INCOPORATED	APPLICATION	PAGE NOs IN THIS APPLICATION
1	Letter changing the shape of EP103.	NO.: Letter DATE: 05/06/10	N/A
2	Letter changing the design of material handling operations and the cooling towers (portions were superseded by subsequent submittals).	NO.: Letter DATE: 07/28/09	N/A
3	Letter changing material handling and modeling information for PM_{10} (portions were superseded by subsequent submittals).	NO.: Letter DATE: 08/28/08	N/A
4	Letter updating emissions calculations and control efficiency for the hydrated lime and powder activated carbon silos (Const. Permit 08010051).	NO.: Letter DATE: 05/21/08	N/A

RECEIVED
MAY 05 2011
Illinois Environmental Protection Agency
BUREAU OF AIR
STATE OF ILLINOIS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

APPLICATION PAGE 117

5	Letter addressing updates to fuel and bulk material handling (portions were superseded by subsequent submittals).	NO.: Letter DATE: 01/14/08	N/A
6		NO.: DATE:	
7		NO.: DATE:	
8		NO.: DATE:	

SECTION FOUR INCORPORATE A PRIOR PARTIAL APPLICATION

IS THE APPLICANT REQUESTING TO INCORPORATE A PARTIAL APPLICATION(S)? ☒ YES ☐ NO

IF YES, COMPLETE THE FOLLOWING:

	DESCRIPTION OF ITEM TO BE INCOPORATED	APPLICATION	PAGE NOs TO INCORPORATE	PAGE NOs IN THIS APPLICATION
1	Calculations from the PSD Permit	NO.: 01100065 DATE: 10/11/02	Appendix B Attachment B-1	N/A
2	Calculations from a construction permit for the Hydrated Lime Injection System	NO.: 08010051 DATE: 01/25/08	Attachment 1	N/A
3	Calculations from a construction permit for the Powder Activated Carbon Injection System	NO.: 08010051 DATE: 01/25/08	Attachment 1	N/A
4		NO.: DATE:		
5		NO.: DATE:		
6		NO.: DATE:		
7		NO.: DATE:		
8		NO.: DATE:		

SECTION FIVE SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: 

AUTHORIZED SIGNATURE

Peter DeQuattro

TYPED OR PRINTED NAME OF SIGNATORY

President and CEO

TITLE OF SIGNATORY

5 / 5 / 11

DATE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

SINGLE SOURCE DETERMINATION

FOR AGENCY USE ONLY
ID NO.:
PERMIT NO.:
DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station
2) SOURCE ID NO.: 189808AAB
3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE SECTION FOUR FOR **EACH** SOURCE THAT THE PERMITTEE DETERMINES **IS** OPERATING AS A SINGLE SOURCE WITH THE PERMITTEE. THIS SECTION MAY BE COPIED AS NEEDED FOR ADDITIONAL SOURCES OR IF ADDITIONAL SPACE IS NEEDED. IF COMPLETING THIS SECTION THERE IS NO NEED TO COMPLETE SECTION FIVE OF THIS FORM AS THE SOURCE CONFIRMS A SINGLE SOURCE RELATIONSHIP.

2) COMPLETE SECTION FIVE FOR **EACH** SOURCE THAT THE PERMITTEE CONFIRMS **IS NOT** OPERATING AS A SINGLE SOURCE WITH THE PERMITTEE. CHECK ALL THAT APPLY AND PROVIDE AS AN ATTACHMENT TO THIS FORM A CONCISE BUT THOROUGH EXPLANATION OF EACH CHECKED SINGLE SOURCE FACTOR. REFERENCE THE ATTACHMENT(S) USING THE APPROPRIATE SINGLE SOURCE FACTOR CONDITION. THIS SECTION MAY BE COPIED AS NEEDED FOR ADDITIONAL SOURCES OR IF ADDITIONAL SPACE IS NEEDED.

3) REFER TO 286-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE — SINGLE SOURCE STATUS

WHAT IS YOUR SOURCE STATUS (CHOOSE ONE OF THE FOLLOWING):

1) ☐ THE ABOVE MENTIONED SOURCE **IS** A SINGLE SOURCE WITH ANOTHER SOURCE.

2) ☐ THE ABOVE MENTIONED SOURCE **IS** A SINGLE SOURCE WITH MULTIPLE SOURCES.

3) ☒ THE ABOVE MENTIONED SOURCE **IS NOT** A SINGLE SOURCE WITH ANOTHER SOURCE.

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: _____ (AUTHORIZED SIGNATURE)

President and CEO (TITLE OF SIGNATORY)

Peter DeQuattro (TYPED OR PRINTED NAME OF SIGNATORY)

5 / 5 / 11 (DATE)

NOTE: Sections 4 and 5 are not applicable to this source because there are no sources that could potentially be considered to be a single source with this source.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL – PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____

Application For CAIR Permit For Electrical Generating Units (EGU)

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT No :
DATE:

This application form is to be used to request the Clean Air Act Interstate Rule (CAIR) permit required by the CAIR SO_2 trading program, CAIR NOx annual trading program, CAIR NOx ozone season trading program for EGU subject to the provisions of 35 IAC Part 225, Subpart C, D, and E, respectively.

SECTION 1: SOURCE AND EGU INFORMATION

1) COMPANY NAME: Prairie State Generating Company, LLC

2) PLANT OR FACILITY NAME: Prairie State Generating Station

3) SOURCE ID NO.:	4) ORIS FACILITY CODE:	
189808AAB	55856	
5) CONTACT NAME:	6) PHONE NO.:	7) E-MAIL ADDRESS:
Peter DeQuattro	618-824-7629	pdequattro@psgc-llc.com

8) ELECTRICAL GENERATING UNITS:

GENERATING UNIT / EGU DESIGNATION	EGU DESCRIPTION	APPLICABILITY (Mark all applicable boxes)	
Unit 1	875 MWe	☐ Existing EGU ☒ New EGU	☒ CAIR SO_2 trading program ☒ CAIR NOx annual trading program ☒ CAIR NOx ozone season trading program
Unit 2	875 MWe	☐ Existing EGU ☒ New EGU	☒ CAIR SO_2 trading program ☒ CAIR NOx annual trading program ☒ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program
		☐ Existing EGU ☐ New EGU	☐ CAIR SO_2 trading program ☐ CAIR NOx annual trading program ☐ CAIR NOx ozone season trading program

The Illinois EPA is authorized to require, and you must disclose, the requested information on this form pursuant to Section 39.5 of the Environmental Protection Act ("Act") 415 ILCS 5/39.5. This information shall be provided using either this form or in an alternative manner at your discretion. Failure to disclose the information may result in your application being denied and/or penalties as provided for in the Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center

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FOR APPLICANT'S USE
_____

9) DETERMINATION OF SO_2 EMISSIONS:

List each EGU that is not currently equipped with a "Part 75 Approved" continuous emissions monitoring system (CEMS) for SO_2

(a) EGUs for which SO_2 CEMS installed but not certified:

1.	4.	7.
2.	5.	8.
3.	6.	9.

(b)) EGUs for which SO_2 CEMS yet to be installed:

1. Unit 1	4.	7.
2. Unit 2	5.	8.
3.	6.	9.

(c)) EGUs for which SO_2 emissions to be determined by the alternative protocol for peaker units:

1.	4.	7.
2.	5.	8.
3.	6.	9.

10) DETERMINATION OF NO_X EMISSIONS:

List each EGU that is not currently equipped with a "Part 75 Approved" continuous emissions monitoring system (CEMS) for NO_X

(a) EGUs for which NO_X CEMS installed but not certified:

1.	4.	7.
2.	5.	8.
3.	6.	9.

(b) EGUs for which NO_X CEMS yet to be installed:

1. Unit 1	4.	7.
2. Unit 2	5.	8.
3.	6.	9.

(c) EGUs for which NO_X emissions to be determined by the alternative protocol for peaker units:

1.	4.	7.
2.	5.	8.
3.	6.	9.

11) CERTIFICATION:

(a) Has a complete Certificate of Representation for the designated representatives for the source been submitted to USEPA, with a copy provided to the Illinois EPA? [X] Yes [ ] No

(b) I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

NAME (Designated Representative): Peter DeQuattro

SIGNATURE (Designated Representative): Peter DeQuattro

DATE: 5-5-11

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SECTION 2: CAIR SO_2 TRADING PROGRAM
COMPLIANCE REQUIREMENTS AS SET FORTH IN 35 IAC 225.310

(a) APPLICABLE REGULATIONS:

The requirements of 35 IAC Part 225, Subpart C and 40 CFR 96, subpart AAA (excluding 40 CFR 96.204, and 96.206), subpart BBB, subpart FFF, subpart GGG and subpart HHH as incorporated by reference in 35 IAC 225.140.

(b) CAIR PERMIT REQUIREMENTS:

1) The owner or operator of each source with one or more CAIR SO_2 units at the source subject to 35 IAC Part 225, Subpart C must apply for a permit issued by the Agency with federally enforceable conditions covering the CAIR SO_2 Trading Program ("CAIR permit") that complies with the requirements of 35 IAC 225.320.

2) The owner or operator of each CAIR SO_2 source and each CAIR SO_2 unit at the source subject to 35 IAC Part 225, Subpart C must operate the CAIR SO_2 unit in compliance with such CAIR permit.

(c) MONITORING REQUIREMENTS:

1) The owner or operator of each CAIR SO_2 source and each CAIR SO_2 unit at the source must comply with the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HHH. The CAIR designated representative of each CAIR SO_2 source and each CAIR SO_2 unit at the CAIR SO_2 source must comply with those sections of the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HHH, applicable to the CAIR designated representative.

2) The compliance of each CAIR SO_2 source with the emissions limitation pursuant to 35 IAC 225.310(d) will be determined by the emissions measurements recorded and reported in accordance with 40 CFR 96, subpart HHH and 40 CFR 75.

(d) EMISSION REQUIREMENTS:

1) By the allowance transfer deadline, midnight of March 1, 2011, and by midnight of March 1 of each subsequent year if March 1 is a business day, the owner or operator of each CAIR SO_2 source and each CAIR SO_2 unit at the source must hold a tonnage equivalent in CAIR SO_2 allowances available for compliance deductions pursuant to 40 CFR 96.254(a) and (b) in the CAIR SO_2 source's CAIR SO_2 compliance account. If March 1 is not a business day, the allowance transfer deadline means by midnight of the first business day thereafter. The number of allowances held on the allowance transfer deadline may not be less than the total tonnage equivalent of the tons of SO_2 emissions for the control period from all CAIR SO_2 units at the CAIR SO_2 source, as determined in accordance with 40 CFR 96, subpart HHH.

2) Each ton of excess emissions of SO_2 emitted by a CAIR SO_2 source for each day of control period, starting in 2010 will constitute a separate violation of 35 IAC Part 225, Subpart C, the Clean Air Act, and the Act.

3) Each CAIR SO_2 unit will be subject to the requirements of 35 IAC 225.310(d)(1) for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitoring certification requirements pursuant to 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.

4) CAIR SO_2 allowances must be held in, deducted from, or transferred into or among allowance accounts in accordance with 35 IAC Part 225, Subpart C, and 40 CFR 96, subparts FFF and GGG.

5) In order to comply with the requirements of 35 IAC 225.310(d)(1), a CAIR SO_2 allowance may not be deducted for compliance according to 35 IAC 225.310(d)(1) for a control period in a calendar year before the year for which the allowance is allocated.

6) A CAIR SO_2 allowance is a limited authorization to emit SO_2 in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR permit application, the CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.205, and no provision of law, will be construed to limit the authority of the United States or the State to terminate or limit this authorization.

7) A CAIR SO_2 allowance does not constitute a property right.

8) Upon recordation by USEPA pursuant to 40 CFR 96, subpart FFF or subpart GGG, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 source's compliance account is deemed to amend automatically, and become a part of, any CAIR permit of the CAIR SO_2 source. This automatic amendment of the CAIR permit will be deemed an operation of law and will not require any further review.

e) RECORDKEEPING AND REPORTING REQUIREMENTS:

1) Unless otherwise provided, the owner or operator of the CAIR SO_2 source and each CAIR SO_2 unit at the source must keep on site at the source each of the documents listed in subsections (e)(1)(A) through (e)(1)(D) of 35 IAC 225.310 for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years in writing by the Agency or USEPA.

A) The certificate of representation for the CAIR designated representative for the source and each CAIR SO_2 unit at the source, all documents that demonstrate the truth of the statements in the certificate of representation, provided that the certificate and documents must be retained on site at the source beyond such five-year period until the documents are superseded because of the submission of a new certificate of representation, pursuant to 40 CFR 96.213, changing the CAIR designated representative.

B) All emissions monitoring information, in accordance with 40 CFR 96, subpart HHH.

C) Copies of all reports, compliance certifications, and other submissions and all records made or required pursuant to the CAIR SO_2 Trading Program or documents necessary to demonstrate compliance with the requirements of the CAIR SO_2 Trading Program or with the requirements of 35 IAC Part 225, Subpart C.

D) Copies of all documents used to complete a CAIR permit application and any other submission or documents used to demonstrate compliance pursuant to the CAIR SO_2 Trading Program.

2) The CAIR designated representative of a CAIR SO_2 source and each CAIR SO_2 unit at the source must submit to the Agency and USEPA the reports and compliance certifications required pursuant to the CAIR SO_2 Trading Program, including those pursuant to 40 CFR 96, subpart HHH.

f) LIABILITY:

1) No revision of a permit for a CAIR SO_2 unit may excuse any violation of the requirements of 35 IAC Part 225, Subpart C or the requirements of the CAIR SO_2 Trading Program.

2) Each CAIR SO_2 source and each CAIR SO_2 unit must meet the requirements of the CAIR SO_2 Trading Program.

3) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 source (including any provision applicable to the CAIR designated representative of a CAIR SO_2 source) will also apply to the owner and operator of the CAIR SO_2 source and to the owner and operator of each CAIR SO_2 unit at the source.

4) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 unit (including any provision applicable to the CAIR designated representative of a CAIR SO_2 unit) will also apply to the owner and operator of the CAIR SO_2 unit.

5) The CAIR designated representative of a CAIR SO_2 unit that has excess SO_2 emissions in any control period must surrender the allowances as required for deduction pursuant to 40 CFR 96.254(d)(1).

6) The owner or operator of a CAIR SO_2 unit that has excess SO_2 emissions in any control period must pay any fine, penalty, or assessment or comply with any other remedy imposed pursuant to the Act and 40 CFR 96.254(d)(2).

g) EFFECT ON OTHER AUTHORITIES:

No provision of the CAIR SO_2 Trading Program, a CAIR permit application, a CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.205 will be construed as exempting or excluding the owner and operator and, to the extent applicable, the CAIR designated representative of a CAIR SO_2 source or a CAIR SO_2 unit from compliance with any other regulation promulgated pursuant to the CAA, the Act, any State regulation or permit, or a federally enforceable permit.

SECTION 3: CAIR NO_X ANNUAL TRADING PROGRAM COMPLIANCE REQUIREMENTS AS SET FORTH IN 35 IAC 225.410

(a) APPLICABLE REGULATIONS:

The requirements of 35 IAC Part 225, Subpart D and 40 CFR 96, subpart AA (excluding 40 CFR 96.104, 96.105(b)(2), and 96.106), subpart BB, subpart FF, subpart GG and subpart HH as incorporated by reference in 35 IAC 225.140.

(b) CAIR PERMIT REQUIREMENTS:

1) The designated representative of each source with one or more CAIR NO_X units at the source subject to 35 IAC Part 225, Subpart D must apply for a permit issued by the Agency with federally enforceable conditions covering the CAIR NO_X Annual Trading Program ("CAIR permit") that complies with the requirements of 35 IAC 225.420.

2) The owner or operator of each CAIR NO_X source and each CAIR NO_X unit at the source must operate the CAIR NO_X unit in compliance with its CAIR permit.

(c) MONITORING REQUIREMENTS:

1) The owner or operator of each CAIR NO_X source and each CAIR NO_X unit at the source must comply with the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HH and 35 IAC 225.450. The CAIR designated representative of each CAIR NO_X source and each CAIR NO_X unit at the CAIR NO_X source must comply with those sections of the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HH, applicable to a CAIR designated representative.

2) The compliance of each CAIR NO_X source with the emissions limitation pursuant to 35 IAC 225.410(d) will be determined by the emissions measurements recorded and reported in accordance with 40 CFR 96, subpart HH.

(d) EMISSION REQUIREMENTS:

1) By the allowance transfer deadline, midnight of March 1, 2010, and by midnight of March 1 of each subsequent year if March 1 is a business day, the owner or operator of each CAIR NO_X source and each CAIR NO_X unit at the source must hold CAIR NO_X allowances available for compliance deductions pursuant to 40 CFR 96.154(a) in the CAIR NO_X source's CAIR NO_X compliance account. If March 1 is not a business day, the allowance transfer deadline means by midnight of the first business day thereafter. The number of allowances held on the allowance transfer deadline may not be less than the tons of NO_X emissions for the control period from all CAIR NO_X units at the source, as determined in accordance with 40 CFR 96, subpart HH.

2) Each ton of excess emissions of a CAIR NO_X source for each day in a control period, starting in 2009 will constitute a separate violation of 35 IAC Part 225, Subpart D, the Act, and the CAA.

3) Each CAIR NO_X unit will be subject to the requirements 35 IAC 225.410(d)(1) for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitoring certification requirements pursuant to 40 CFR 96.170(b)(1) or (b)(2) and for each control period thereafter.

4) CAIR NO_X allowances must be held in, deducted from, or transferred into or among allowance accounts in accordance with 35 IAC Part 225, Subpart D, and 40 CFR 96, subparts FF and GG.

5) In order to comply with the requirements of 35 IAC 225.410(d)(1), a CAIR NO_X allowance may not be deducted for compliance according to 35 IAC 225.410(d)(1) for a control period in a year before the calendar year for which the allowance is allocated.

6) A CAIR NO_X allowance is a limited authorization to emit one ton of NO_X in accordance with the CAIR NO_X Trading Program. No provision of the CAIR NO_X Trading Program, the CAIR NO_X permit application, the CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.105, and no provision of law, will be construed to limit the authority of the United States or the State to terminate or limit this authorization.

7) A CAIR NO_X allowance does not constitute a property right.

8) Upon recordation by USEPA pursuant to 40 CFR 96, subpart FF or subpart GG, every allocation, transfer, or deduction of a CAIR NO_X allowance to or from a CAIR NO_X source's compliance account is deemed to amend automatically, and become a part of, any CAIR NO_X permit of the CAIR NO_X source. This automatic amendment of the CAIR permit will be deemed an operation of law and will not require any further review.

e) RECORDKEEPING AND REPORTING REQUIREMENTS:

1) Unless otherwise provided, the owner or operator of the CAIR NO_x source and each CAIR NO_x unit at the source must keep on site at the source each of the documents listed in subsections (e)(1)(A) through (e)(1)(E) of 35 IAC 225.410 for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years in writing by the Agency or USEPA.

A) The certificate of representation for the CAIR designated representative for the source and each CAIR NO_x unit at the source, all documents that demonstrate the truth of the statements in the certificate of representation, provided that the certificate and documents must be retained on site at the source beyond such five-year period until the documents are superseded because of the submission of a new certificate of representation, pursuant to 40 CFR 96.113, changing the CAIR designated representative.

B) All emissions monitoring information, in accordance with 40 CFR 96, subpart HH.

C) Copies of all reports, compliance certifications, and other submissions and all records made or required pursuant to the CAIR NO_x Annual Trading Program or documents necessary to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program or with the requirements of 35 IAC Part 225, Subpart D.

D) Copies of all documents used to complete a CAIR NO_x permit application and any other submission or documents used to demonstrate compliance pursuant to the CAIR NO_x Annual Trading Program.

E) Copies of all records and logs for gross electrical output and useful thermal energy required by 35 IAC 225.450.

2) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source must submit to the Agency and USEPA the reports and compliance certifications required pursuant to the CAIR NO_x Annual Trading Program, including those pursuant to 40 CFR 96, subpart HH.

f) LIABILITY:

1) No revision of a permit for a CAIR NO_x unit may excuse any violation of the requirements of 35 IAC Part 225, Subpart D or the requirements of the CAIR NO_x Annual Trading Program.

2) Each CAIR NO_x source and each CAIR NO_x unit must meet the requirements of the CAIR NO_x Annual Trading Program.

3) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x source (including any provision applicable to the CAIR designated representative of a CAIR NO_x source) will also apply to the owner and operator of the CAIR NO_x source and to the owner and operator of each CAIR NO_x unit at the source.

4) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x unit (including any provision applicable to the CAIR designated representative of a CAIR NO_x unit) will also apply to the owner and operator of the CAIR NO_x unit.

5) The CAIR designated representative of a CAIR NO_x unit that has excess NO_x emissions in any control period must surrender the allowances as required for deduction pursuant to 40 CFR 96.154(d)(1).

6) The owner or operator of a CAIR NO_x unit that has excess NO_x emissions in any control period must pay any fine, penalty, or assessment or comply with any other remedy imposed pursuant to the Act and 40 CFR 96.154(d)(2).

g) EFFECT ON OTHER AUTHORITIES:

No provision of the CAIR NO_x Annual Trading Program, a CAIR permit application, a CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.105 will be construed as exempting or excluding the owner and operator and, to the extent applicable, the CAIR designated representative of a CAIR NO_x source or a CAIR NO_x unit from compliance with any other regulation promulgated pursuant to the CAA, the Act, any State regulation or permit, or a federally enforceable permit.

SECTION 4: CAIR NO_X OZONE SEASON TRADING PROGRAM COMPLIANCE REQUIREMENTS AS SET FORTH IN 35 IAC 225.510

(a) APPLICABLE REGULATIONS:

The requirements of 35 IAC Part 225, Subpart E and 40 CFR 96, subpart AAAA (excluding 40 CFR 96.304, 96.305(b)(2) and 96.306), subpart BBBB, subpart FFFF, subpart GGGG and subpart HHHH as incorporated by reference in 35 IAC 225.140.

(b) CAIR PERMIT REQUIREMENTS:

1) The designated representative of each source with one or more CAIR NO_X Ozone Season units at the source subject to 35 IAC Part 225, Subpart E must apply for a permit issued by the Agency with federally enforceable conditions covering the CAIR NO_X Ozone Season Trading Program ("CAIR permit") that complies with the requirements of 35 IAC 225.520.

2) The owner or operator of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source must operate the CAIR NO_X Ozone Season unit in compliance with its CAIR permit.

(c) MONITORING REQUIREMENTS:

1) The owner or operator of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source must comply with the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HHHH, 40 CFR 75 and 35 IAC 225.550. The CAIR designated representative of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source must comply with those sections of the monitoring, reporting and recordkeeping requirements of 40 CFR 96, Subpart HHHH, applicable to a CAIR designated representative.

2) The compliance of each CAIR NO_X Ozone Season source with the CAIR NO_X Ozone Season emissions limitation pursuant to 35 IAC 225.510(d) will be determined by the emissions measurements recorded and reported in accordance with 40 CFR 96, subpart HHHH.

(d) EMISSION REQUIREMENTS:

1) By the allowance transfer deadline, midnight of November 30, 2009, and by midnight of November 30 of each subsequent year if November 30 is a business day, the owner or operator of each CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source must hold CAIR NO_X allowances available for compliance deductions pursuant to 40 CFR 96.354(a) in the CAIR NO_X Ozone Season source's compliance account. If November 30 is not a business day, the allowance transfer deadline means by midnight of the first business day thereafter. The number of allowances held may not be less than the tons of NO_X emissions for the control period from all CAIR NO_X Ozone Season units at the CAIR NO_X Ozone Season source, as determined in accordance with 40 CFR 96, subpart HHHH.

2) Each ton of excess emissions of a CAIR NO_X Ozone Season source for each day in a control period, starting in 2009 will constitute a separate violation of 35 IAC Part 225, Subpart E, the Act, and the CAA.

3) Each CAIR NO_X Ozone Season unit will be subject to the requirements 35 IAC 225.510(d)(1) for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitoring certification requirements pursuant to 40 CFR 96.370(b)(1), (b)(2) or (b)(3) and for each control period thereafter.

4) CAIR NO_X Ozone Season allowances must be held in, deducted from, or transferred into or among allowance accounts in accordance with 35 IAC Part 225, Subpart E, and 40 CFR 96, subparts FFFF and GGGG.

5) In order to comply with the requirements of 35 IAC 225.510(d)(1), a CAIR NO_X Ozone Season allowance may not be deducted for compliance according to 35 IAC 225.510(d)(1) for a control period in a calendar year before the year for which the CAIR NO_X Ozone Season allowance is allocated.

6) A CAIR NO_X Ozone Season allowance is a limited authorization to emit one ton of NO_X in accordance with the CAIR NO_X Ozone Season Trading Program. No provision of the CAIR NO_X Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.305, and no provision of law, will be construed to limit the authority of the United States or the State to terminate or limit this authorization.

7) A CAIR NO_X Ozone Season allowance does not constitute a property right.

8) Upon recordation by USEPA pursuant to 40 CFR 96, subpart FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source compliance account is deemed to amend automatically, and become a part of, any CAIR permit of the CAIR NO_x Ozone Season source. This automatic amendment of the CAIR permit will be deemed an operation of law and will not require any further review.

e) RECORDKEEPING AND REPORTING REQUIREMENTS:

1) Unless otherwise provided, the owner or operator of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source must keep on site at the source each of the documents listed in subsections (e)(1)(A) through (e)(1)(E) of 35 IAC 225.510 for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years in writing by the Agency or USEPA.

A) The certificate of representation for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source, all documents that demonstrate the truth of the statements in the certificate of representation, provided that the certificate and documents must be retained on site at the source beyond such five-year period until the documents are superseded because of the submission of a new certificate of representation, pursuant to 40 CFR 96.313, changing the CAIR designated representative.

B) All emissions monitoring information, in accordance with 40 CFR 96, subpart HHHH.

C) Copies of all reports, compliance certifications, and other submissions and all records made or required pursuant to the CAIR NO_x Ozone Season Trading Program or documents necessary to demonstrate compliance with the requirements of the CAIR NO_x Ozone Season Trading Program or with the requirements of 35 IAC Part 225, Subpart E.

D) Copies of all documents used to complete a CAIR permit application and any other submission or documents used to demonstrate compliance pursuant to the CAIR NO_x Ozone Season Trading Program.

E) Copies of all records and logs for gross electrical output and useful thermal energy required by 35 IAC 225.550.

2) The CAIR designated representative of a CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source must submit to the Agency and USEPA the reports and compliance certifications required pursuant to the CAIR NO_x Ozone Season Trading Program, including those pursuant to 40 CFR 96, subpart HHHH and 35 IAC 225.550.

f) LIABILITY:

1) No revision of a permit for a CAIR NO_x Ozone Season unit may excuse any violation of the requirements of 35 IAC Part 225, Subpart E or the requirements of the CAIR NO_x Ozone Season Trading Program.

2) Each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit must meet the requirements of the CAIR NO_x Ozone Season Trading Program.

3) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season source (including any provision applicable to the CAIR designated representative of a CAIR NO_x Ozone Season source) will also apply to the owner and operator of the CAIR NO_x Ozone Season source and to the owner and operator of each CAIR NO_x Ozone Season unit at the source.

4) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season unit (including any provision applicable to the CAIR designated representative of a CAIR NO_x Ozone Season unit) will also apply to the owner and operator of the CAIR NO_x Ozone Season unit.

5) The CAIR designated representative of a CAIR NO_x Ozone Season unit that has excess emissions in any control period must surrender the allowances as required for deduction pursuant to 40 CFR 96.354(d)(1).

6) The owner or operator of a CAIR NO_x Ozone Season unit that has excess NO_x emissions in any control period must pay any fine, penalty, or assessment or comply with any other remedy imposed pursuant to the Act and 40 CFR 96.354(d)(2).

g) EFFECT ON OTHER AUTHORITIES:

No provision of the CAIR NO_x Ozone Season Trading Program, a CAIR permit application, a CAIR permit, or a retired unit exemption pursuant to 40 CFR 96.305 will be construed as exempting or excluding the owner and operator and, to the extent applicable, the CAIR designated representative of a CAIR NO_x Ozone Season source or a CAIR NO_x Ozone Season unit from compliance with any other regulation promulgated pursuant to the CAA, the Act, any State regulation or permit, or a federally enforceable permit.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation
_____

LISTING OF INSIGNIFICANT ACTIVITIES

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

THIS FORM MUST BE COMPLETED FOR ALL ACTIVITIES THAT ARE "INSIGNIFICANT" ACCORDING TO 35 ILL. ADM. CODE, SECTION 201.210 AND 201.211 FOR WHICH DETAILED DATA AND INFORMATION, AS REQUESTED IN OTHER FORMS, IS NOT PROVIDED.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

INSIGNIFICANT ACTIVITIES

4) ARE ANY ONE OR ALL OF THE FOLLOWING ACTIVITIES, AS IDENTIFIED IN 35 ILL. ADM. CODE 201.210(b), PRESENT AT THE SOURCE? CHECK THE APPROPRIATE BOX. ☒ YES ☐ NO

ACTIVITIES IN 35 ILL. ADM. CODE 201.210(b).

i) AIR CONDITIONING OR VENTILATING EQUIPMENT NOT DESIGNED TO REMOVE AIR CONTAMINANTS GENERATED BY OR RELEASED FROM ASSOCIATED EQUIPMENT;

ii) PHOTOGRAPHIC PROCESS EQUIPMENT BY WHICH AN IMAGE IS REPRODUCED UPON MATERIAL SENSITIZED TO RADIANT ENERGY;

iii) EQUIPMENT USED FOR HYDRAULIC OR HYDROSTATIC TESTING;

iv) GENERAL VEHICLE MAINTENANCE AND SERVICING ACTIVITIES AT THE SOURCE, OTHER THAN GASOLINE FUEL HANDLING;

v) CAFETERIAS, KITCHENS AND OTHER FACILITIES USED FOR PREPARING FOOD OR BEVERAGES PRIMARILY FOR CONSUMPTION AT THE SOURCE;

vi) EQUIPMENT USING A WATER, WATER AND SOAP OR DETERGENT, OR A SUSPENSION OF ABRASIVES IN WATER FOR PURPOSES OF CLEANING OR FINISHING PROVIDED NO ORGANIC SOLVENT HAS BEEN ADDED TO THE WATER;

vii) ADMINISTRATIVE ACTIVITIES INCLUDING, BUT NOT LIMITED TO, PAPER SHREDDING, COPYING, PHOTOGRAPHIC ACTIVITIES, AND BLUEPRINTING MACHINES. THIS DOES NOT INCLUDE INCINERATORS;

viii) LAUNDRY DRYERS, EXTRACTORS, AND TUMBLERS PROCESSING CLOTHING, BEDDING, AND OTHER FABRIC ITEMS USED AT THE SOURCE THAT HAVE BEEN CLEANED WITH WATER SOLUTIONS OF BLEACH OR DETERGENTS PROVIDED THAT ANY ORGANIC SOLVENT PRESENT IN SUCH ITEMS BEFORE PROCESSING THAT IS RETAINED FROM CLEAN-UP OPERATIONS SHALL BE ADDRESSED AS PART OF THE VOM EMISSIONS FROM USE OF CLEANING MATERIALS;

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

INSIGNIFICANT ACTIVITIES (continued)

ix) HOUSEKEEPING ACTIVITIES FOR CLEANING PURPOSES, INCLUDING COLLECTING SPILLED AND ACCUMULATED MATERIALS AT THE SOURCE, INCLUDING OPERATION OF FIXED VACUUM CLEANING SYSTEMS SPECIFICALLY FOR SUCH PURPOSES, BUT NOT INCLUDING USE OF CLEANING MATERIALS THAT CONTAIN ORGANIC SOLVENT;

x) REFRIGERATION SYSTEMS, INCLUDING STORAGE TANKS USED IN REFRIGERATION SYSTEMS, BUT EXCLUDING ANY COMBUSTION EQUIPMENT ASSOCIATED WITH SUCH SYSTEMS;

xi) BENCH SCALE LABORATORY EQUIPMENT AND LABORATORY EQUIPMENT USED EXCLUSIVELY FOR CHEMICAL AND PHYSICAL ANALYSIS, INCLUDING ASSOCIATED LABORATORY FUME HOODS, VACUUM PRODUCING DEVICES AND CONTROL DEVICES INSTALLED PRIMARILY TO ADDRESS POTENTIAL ACCIDENTAL RELEASES;

xii) REST ROOM FACILITIES AND ASSOCIATED CLEANUP OPERATIONS, AND STACKS OR VENTS USED TO PREVENT THE ESCAPE OF SEWER GASES THROUGH PLUMBING TRAPS;

xiii) ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION, ON-SITE REPAIR, MAINTENANCE OR DISMANTLEMENT OF BUILDINGS, UTILITY LINES, PIPELINES, WELLS, EXCAVATIONS, EARTHWORKS AND OTHER STRUCTURES THAT DO NOT CONSTITUTE EMISSION UNITS;

xiv) STORAGE TANKS OF ORGANIC LIQUIDS WITH A CAPACITY OF LESS THAN 500 GALLONS, PROVIDED THE TANK IS NOT USED FOR STORAGE OF ANY MATERIAL LISTED AS A HAZARDOUS AIR POLLUTANT PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;

xv) PIPING AND STORAGE SYSTEMS FOR NATURAL GAS, PROPANE, AND LIQUEFIED PETROLEUM GAS;

xvi) WATER TREATMENT OR STORAGE SYSTEMS AS FOLLOWS: (A) SYSTEMS FOR POTABLE WATER OR BOILER FEEDWATER, (B) SYSTEMS, INCLUDING COOLING TOWERS, FOR PROCESS WATER PROVIDED THAT SUCH WATER HAS NOT BEEN IN DIRECT OR INDIRECT CONTACT WITH PROCESS STREAMS THAT CONTAIN VOLATILE ORGANIC MATERIAL OR MATERIALS LISTED AS HAZARDOUS AIR POLLUTANTS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;

xvii) LAWN CARE, LANDSCAPE MAINTENANCE, AND GROUNDSKEEPING ACTIVITIES;

xviii) CONTAINERS, RESERVOIRS, OR TANKS USED EXCLUSIVELY IN DIPPING OPERATIONS TO COAT OBJECTS WITH OILS, WAXES, OR GREASES, PROVIDED NO ORGANIC SOLVENT HAS BEEN MIXED WITH SUCH MATERIALS;

xix) COLD CLEANING DEGREASERS THAT ARE NOT IN-LINE CLEANING MACHINES, WHERE THE VAPOR PRESSURE OF THE SOLVENTS USED NEVER EXCEED 2kPa MEASURED AT 38C OR 0.7kPa AT 20C;

xx) MANUALLY OPERATED EQUIPMENT USED FOR BUFFING, POLISHING, CARVING, CUTTING, DRILLING, MACHINING, ROUTING, SANDING, SAWING, SCARFING, SURFACE GRINDING, OR TURNING;

xxi) USE OF CONSUMER PRODUCTS, INCLUDING HAZARDOUS SUBSTANCES AS THAT TERM IS DEFINED IN THE FEDERAL HAZARDOUS SUBSTANCES ACT, WHERE THE PRODUCT IS USED AT A SOURCE IN THE SAME MANNER AS NORMAL CONSUMER USE;

xxii) ACTIVITIES DIRECTLY USED IN THE DIAGNOSIS AND TREATMENT OF DISEASE, INJURY OR OTHER MEDICAL CONDITION;

xxiii) FIREFIGHTING ACTIVITIES AND TRAINING IN PREPARATION FOR FIGHTING FIRES CONDUCTED AT THE SOURCE;

xxiv) INTERNAL COMBUSTION ENGINE OR BOILER (INCLUDING THE FUEL SYSTEM) OF MOTOR VEHICLES, LOCOMOTIVES, AIR CRAFT, WATERCRAFT, LIFTTRUCKS, AND OTHER VEHICLES POWERED BY NONROAD ENGINES;

xxv) ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION, REPAIR OR MAINTENANCE OF ROADS OR OTHER PAVED OR OPEN AREAS, INCLUDING OPERATION OF STREET SWEEPERS, VACUUM TRUCKS, SPRAY TRUCKS, AND OTHER VEHICLES RELATED TO THE CONTROL OF FUGITIVE EMISSIONS OF SUCH ROADS OR OTHER AREAS;

xxvi) STORAGE AND HANDLING OF DRUMS OR OTHER TRANSPORTABLE CONTAINERS WHERE THE CONTAINERS ARE SEALED DURING STORAGE AND HANDLING;

INSIGNIFICANT ACTIVITIES (continued)

xxvii) INDIVIDUAL POINTS OF EMISSION OR ACTIVITIES AS FOLLOWS: (A) INDIVIDUAL FLANGES, VALVES, PUMP SEALS, PRESSURE RELIEF VALVES AND OTHER INDIVIDUAL COMPONENTS THAT HAVE THE POTENTIAL FOR LEAKS, (B) INDIVIDUAL SAMPLING POINTS, ANALYZERS, AND PROCESS INSTRUMENTATION, WHOSE OPERATION MAY RESULT IN EMISSIONS, (C) INDIVIDUAL FEATURES OF AN EMISSION UNIT SUCH AS EACH BURNER AND SOOTBLOWERS IN A BOILER OR EACH USE OF CLEANING MATERIALS ON A COATING OR PRINTING LINE, (D) INDIVIDUAL EQUIPMENT THAT IS TRANSPORTABLE OR ACTIVITIES WITHIN A FACILITY ESTABLISHED FOR TESTING UNITS PRIOR TO SALE OR DISTRIBUTION OR FOR PURPOSES OF RESEARCH, AND (E) INDIVIDUAL EQUIPMENT OR ACTIVITIES WITHIN A PILOT PLANT FACILITY THAT IS USED FOR RESEARCH OR TRAINING;

xxviii) ACTIVITIES AT A SOURCE ASSOCIATED WITH THE MODIFICATION ONLY OR CONSTRUCTION ONLY OF A FACILITY, AN EMISSION UNIT OR OTHER EQUIPMENT AT THE SOURCE;

xxix) ACTIVITIES AT A SOURCE ASSOCIATED WITH THE MAINTENANCE, REPAIR, OR DISMANTLEMENT OF AN EMISSION UNIT OR OTHER EQUIPMENT INSTALLED AT THE SOURCE, NOT INCLUDING THE SHUTDOWN OF THE UNIT OR EQUIPMENT, INCLUDING PREPARATION FOR MAINTENANCE, REPAIR OR DISMANTLEMENT, AND PREPARATION FOR SUBSEQUENT STARTUP, INCLUDING PREPARATION OF A SHUTDOWN VESSEL FOR ENTRY, REPLACEMENT OF INSULATION, WELDING AND CUTTING, AND STEAM PURGING OF A VESSEL PRIOR TO STARTUP.

5) ARE ANY EMISSION UNITS AT THE SOURCE CONSIDERED INSIGNIFICANT ACTIVITIES BECAUSE THEY FALL UNDER ONE OF THE ACTIVITIES OR EMISSION LEVELS LISTED IN 35 ILL. ADM. CODE 201.210(a)(1) THROUGH (18)? IF YES, IDENTIFY THE EMISSION UNITS IN THE "LIST OF INSIGNIFICANT ACTIVITIES PURSUANT TO 201.210(a)(1) THROUGH (18)" AND PROVIDE THE REQUESTED INFORMATION. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 297-1.

ACTIVITIES AND EMISSION LEVELS IN 35 ILL. ADM. CODE 201.210(a)

i)	ANY EMISSION UNIT DETERMINED TO BE AN INSIGNIFICANT ACTIVITY BY THE AGENCY PURSUANT TO 35 ILL. ADM. CODE 201.211 (SEE ITEM #6);	☐ Yes ☒ NO
ii)	EMISSION UNITS WITH EMISSIONS THAT NEVER EXCEED 0.1 LBS/HR OF ANY REGULATED AIR POLLUTANT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT AND THAT DO NOT EMIT ANY AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☐ Yes ☒ NO
iii)	EMISSION UNITS WITH EMISSIONS THAT NEVER EXCEED 0.44 TONS/YR OF ANY REGULATED AIR POLLUTANT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT AND THAT DO NOT EMIT ANY AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☒ Yes ☐ NO
iv)	DIRECT COMBUSTION UNITS DESIGNED AND USED FOR COMFORT HEATING PURPOSES AND FUEL COMBUSTION EMISSION UNITS AS FOLLOWS: (A) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 2.5 MMBTU/HR THAT FIRE ONLY NATURAL GAS, PROPANE OR LIQUEFIED PETROLEUM GAS, (B) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 1.0 MMBTU/HR THAT FIRE ONLY OIL OR OIL IN COMBINATION WITH NATURAL GAS, PROPANE OR LIQUEFIED PETROLEUM GAS, AND (C) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 200,000 BTU/HR WHICH NEVER BURN REFUSE, OR TREATED OR CHEMICALLY CONTAMINATED WOOD;	☒ Yes ☐ NO
v)	EXTRUDERS USED FOR THE EXTRUSION OF METALS, MINERALS, PLASTICS, RUBBER, OR WOOD, EXCLUDING EXTRUDERS USED IN THE MANUFACTURE OF POLYMERS, PROVIDED THAT VOLATILE ORGANIC MATERIALS OR CLASS I OR II SUBSTANCES SUBJECT TO THE REQUIREMENTS OF TITLE VI OF THE CLEAN AIR ACT ARE NOT USED AS FOAMING AGENTS OR RELEASE AGENTS OR WERE NOT USED AS FOAMING AGENTS IN THE CASE OF EXTRUDERS PROCESSING SCRAP MATERIAL;	☐ Yes ☒ NO
vi)	FURNACES USED FOR MELTING METALS OTHER THAN BERYLLIUM WITH A BRIM FULL CAPACITY OF LESS THAN 450 CUBIC INCHES BY VOLUME;	☐ Yes ☒ NO
vii)	EQUIPMENT USED FOR THE MELTING OR APPLICATION OF LESS THAN 50,000 LBS/YR OF WAX TO WHICH NO ORGANIC SOLVENT HAS BEEN ADDED;	☐ Yes ☒ NO

INSIGNIFICANT ACTIVITIES (continued)	
viii) EQUIPMENT USED FOR FILLING DRUMS, PAILS OR OTHER PACKAGING CONTAINERS, EXCLUDING AEROSOL CANS, WITH SOAPS, DETERGENTS, SURFACTANTS, LUBRICATING OILS, WAXES, VEGETABLE OILS, GREASES, ANIMAL FATS, GLYCERIN, SWEETENERS, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS;	☐ Yes ☒ NO
ix) EQUIPMENT USED FOR THE MIXING AND BLENDING OF MATERIALS AT AMBIENT TEMPERATURE TO MAKE WATER BASED ADHESIVES PROVIDED EACH MATERIAL CONTAINS LESS THAN 5% ORGANIC SOLVENT BY WEIGHT;	☐ Yes ☒ NO
x) STORAGE TANKS OF ORGANIC LIQUIDS WITH A CAPACITY OF LESS THAN 10,000 GALLONS AND AN ANNUAL THROUGHPUT OF LESS THAN 100,000 GALLONS PROVIDED THE TANK IS NOT USED FOR THE STORAGE OF GASOLINE OR ANY LISTED HAZARDOUS AIR POLLUTANT PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☐ Yes ☒ NO
xi) STORAGE TANKS OF VIRGIN OR REREFINED DISTILLATE OIL, HYDROCARBON CONDENSATE FROM NATURAL GAS PIPELINE OR STORAGE SYSTEMS, LUBRICATING OIL, OR RESIDUAL FUEL OILS;	☒ Yes ☐ NO
xii) DIE CASTING MACHINES WHERE A METAL OR PLASTIC IS FORMED UNDER PRESSURE IN A DIE;	☐ Yes ☒ NO
xiii) COATING OPERATIONS (EXCLUDING POWDER, ARCHITECTURAL AND INDUSTRIAL MAINTENANCE COATING) WITH AGGREGATE VOM USAGE THAT NEVER EXCEEDS 15 LBS/DAY FROM ALL COATING LINES AT THE SOURCE, INCLUDING VOM FROM COATING, DILUTENTS, AND CLEANING MATERIALS;	☐ Yes ☒ NO
xiv) PRINTING OPERATIONS WITH AGGREGATE ORGANIC SOLVENT USAGE THAT NEVER EXCEEDS 750 GALLONS PER YEAR FROM ALL PRINTING LINES AT THE SOURCE, INCLUDING ORGANIC SOLVENT FROM INKS, DILUTENTS, FOUNTAIN SOLUTIONS, AND CLEANING MATERIALS;	☐ Yes ☒ NO
xv) GAS TURBINES AND STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF LESS THAN 112 KW (150 HORSEPOWER) POWER OUTPUT;	☐ Yes ☒ NO
xvi) GAS TURBINES AND STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF BETWEEN 112 KW AND 1,1118 KW (150 AND 1,500 HORSEPOWER) POWER OUTPUT THAT ARE EMERGENCY OR STANDBY UNITS;	☒ Yes ☐ NO
xvii) STORAGE TANKS OF ANY SIZE CONTAINING EXCLUSIVELY SOAPS, DETERGENTS, SURFACTANTS, GLYCERIN, WAXES, VEGETABLE OILS, GREASES, ANIMAL FATS, SWEETENERS, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS PROVIDED AN ORGANIC SOLVENT HAS NOT BEEN MIXED WITH SUCH MATERIALS;	☒ Yes ☐ NO
xviii) LOADING AND UNLOADING SYSTEMS FOR RAILCARS, TANK TRUCKS, OR WATERCRAFT THAT HANDLE ONLY THE FOLLOWING LIQUID MATERIALS PROVIDED AN ORGANIC SOLVENT HAS NOT BEEN MIXED WITH SUCH MATERIALS: SOAPS, DETERGENTS, SURFACTANTS, LUBRICATING OILS, WAXES, GLYCERIN, VEGETABLE OILS, GREASES, ANIMAL FATS, SWEETENER, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS.	☒ Yes ☐ NO
6) ARE ANY EMISSION UNITS AT THE SOURCE PROPOSED TO BE CONSIDERED INSIGNIFICANT ACTIVITIES THAT MEET THE CRITERIA LISTED IN 35 ILL. ADM. CODE 201.211(a)? IF YES, LIST THE EMISSION UNITS IN THE "LIST OF ACTIVITIES FOR WHICH STATUS AS AN INSIGNIFICANT ACTIVITIES IS PROPOSED PURSUANT TO 201.211(a)" AND PROVIDE THE REQUESTED INFORMATION. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 297-2.	☐ Yes ☒ NO
CRITERIA IN 35 ILL. ADM. CODE 201.211(a) i) THE EMISSION UNIT WOULD NOT EMIT MORE THAN 1.0 LBS/HR OF ANY REGULATED AIR POLLUTANT NOT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT; ii) THE EMISSION UNIT WOULD NOT EMIT MORE THAN 0.1 LB/HR OF ANY REGULATED AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112 (b) OF THE CLEAN AIR ACT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT; AND iii) THE EMISSION UNIT IS NOT A PROCESS UNIT.	

LIST OF INSIGNIFICANT ACTIVITIES PURSUANT TO 201.210 (a)(1) THROUGH (18)

EMISSION UNIT AND DESIGNATION	# OF UNITS	DESCRIPTION OF UNIT INCLUDING ANY CONTROL	BASIS FOR INSIGNIFICANCE SECTION 201.210(a)	[1]BASIS FOR DETERMINATION OF EMISSIONS
Emergency Diesel Fire Pump	1	Fire pump engine firing diesel fuel	201.210(a)(16)	
Diesel Emergency Backup Generator	1	Emergency diesel-fired engine powering a generator	201.210(a)(16)	
Limestone Rock Duster Silo	1	Silo containing rock dust for mine operations	201.210(a)(3)	3
#1 Diesel Storage Tank (1,500 Gal) LG-1B	1	Storage tank containing #1 Diesel for general purposes	201.210(a)(11)	
#2 Diesel Storage Tank (2,500 Gal) LG-2	1	Storage tank containing #2 Diesel for general purposes	201.210(a)(11)	
#2 Diesel Storage Tank (550 Gal) LG-7	1	Storage tank containing #2 Diesel for the emergency diesel fire pump	201.210(a)(11)	
#2 Diesel Storage Tank (10,859 Gal) LG-8	1	Storage tank containing #2 Diesel for the diesel emergency backup generator	201.210(a)(11)	
Lubricating Oil Tanks	TBD	Storage tanks containing lubricating oil for general purposes	201.210(a)(11)	
Sodium Hydroxide Tank and Loading Operations	TBD	Storage tank and loading for sodium hydroxide	201.210(a)(17) and (18)	
Bleach, NaOCL Tank and Loading Operations	TBD	Storage tank and loading for bleach (NaOCL)	201.210(a)(17) and (18)	
Direct Combustion Comfort Heating Units	TBD	Direct-fired units that provide comfort heating	201.210(a)(4)	

[1]IF CONSIDERED INSIGNIFICANT BASED ON EMISSION LEVEL, THE DETERMINATION METHOD OF EMISSION MUST BE PROVIDED (E.G., 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)).

LIST OF ACTIVITIES FOR WHICH STATUS AS AN INSIGNIFICANT ACTIVITIES IS PROPOSED PURSUANT TO 201.211 (a)

EMISSION UNIT AND DESIGNATION	[1]IU	DESCRIPTION OF UNIT INCLUDING ANY CONTROL	OPERATING HOURS: HRS PER DAY / DAY PER WEEK / WEEK PER YEAR; [2]DISCUSSION:	EMISSIONS: POLLUTANT / LB PER HOUR / TON PER YEAR; [3]DETERMINATION METHOD:	OTHER SUPPORTING INFORMATION
N/A					

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

LISTING OF SIGNIFICANT ACTIVITIES	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SECTION ONE SOURCE INFORMATION

1)SOURCE NAME: Prairie State Generating Station

2)SOURCE ID NO: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO INSTRUCTIONS IN BRIEF

1) COMPLETE THE LISTING OF SIGNIFICANT ACTIVITIES AT THIS SOURCE. PROVIDE THE LISTING IN THE ORDER IN WHICH THE EMISSION UNIT(S) OR PROCESS(ES) ARE FOUND IN THE APPLICATION.

2) EMISSION UNITS MAY BE GROUPED BY ACTIVITY RATHER THAN INDIVIDUALLY LISTED (E.G., TANKS 1-5).

3) DO NOT INCLUDE INSIGNIFICANT ACTIVITIES IN THIS LISTING. PROVIDE THOSE ACTIVITIES IN THE 297-CAAPP-LISTING OF INSIGNIFICANT ACTIVITIES.

SECTION THREE LISTING OF SIGNIFICANT ACTIVITIES

#	EMISSION UNIT OR PROCESS	AIR POLLUTION CONTROL EQUIPMENT
1	Unit 1	Low NO_X Burners, SCR, HL/PAC Injection, Dry ESP, WFGD, Wet ESP
2	Unit 2	Low NO_X Burners, SCR, HL/PAC Injection, Dry ESP, WFGD, Wet ESP
3	Auxiliary Boiler	Low NO_X Burners
4	Cooling Towers 1 and 2	Drift Eliminators
5	Coal Handling Units	Chutes with Fogging, Dust Suppression Spray, and Dust Collectors
6	Coal Processing Units (Crushers 1 and 2)	Dust Collector
7	Limestone Preparation Units	Enclosed and Bin Vent Filters
8	HL and PAC Silos	Bin Vent Filter
9	Soda Ash and Quick Lime Silos	Bin Vent Filter
10	Fly Ash Silos	Bin Vent Filter
11	Gasoline Storage Tank	Submerged Loading Pipe

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5 FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION, MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

HAZARDOUS AIR POLLUTANT (HAP) EMISSION SUMMARY

FOR AGENCY USE ONLY

ID NO.:
PERMIT NO.:
DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station
2) SOURCE ID NO.: 189808AAB
3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THIS FORM FOR HAZARDOUS AIR POLLUTANT (HAP) INFORMATION FOR THE ENTIRE SOURCE. SECTIONS FOUR, FIVE, AND SIX MAY BE COPIED AS NEEDED FOR ADDITIONAL EMISSION UNITS OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL WITH THE APPROPRIATE EMISSION UNIT DESIGNATION.

2) A NATURAL MINOR SOURCE FOR HAPS IS A SOURCE WHOSE POTENTIAL TO EMIT HAZARDOUS AIR POLLUTANTS IS LESS THAN THE CRITERIA FOR A MAJOR SOURCE OF HAP EMISSIONS WITHOUT REQUIRING SPECIFIC OPERATIONAL RESTRICTIONS. THE HAP MAJOR SOURCE CRITERIA ARE LISTED IN NUMBER ONE OF SECTION THREE BELOW.

3) A SYNTHETIC MINOR SOURCE FOR HAP S IS A SOURCE WHOSE POTENTIAL TO EMIT HAZARDOUS AIR POLLUTANTS IS GREATER THAN THE CRITERIA FOR A MAJOR SOURCE OF HAP EMISSIONS, HOWEVER THE SOURCE IS ABLE TO REQUEST OPERATIONAL RESTRICTIONS WHICH WILL LIMIT THE SOURCE EMISSIONS BELOW THE APPLICABLE CRITERIA. THE HAP MAJOR SOURCE CRITERIA ARE LISTED IN NUMBER ONE OF SECTION THREE BELOW. A SYNTHETIC MINOR SOURCE STATUS MAY BE USED TO AVOID CERTAIN RULE APPLICABILITY (E.G., NESHAP APPLICABILITY).

4) A MAJOR SOURCE HAPS IS A SOURCE WHOSE POTENTIAL TO EMIT HAPS IS GREATER THAN THE CRITERIA FOR A MAJOR SOURCE OF HAP EMISSIONS AND THE SOURCE IS UNABLE OR UNWILLING TO REQUEST OPERATIONAL RESTRICTIONS WHICH WILL LIMIT THE SOURCE EMISSIONS BELOW THE APPLICABLE CRITERIA. THE HAP MAJOR SOURCE CRITERIA ARE LISTED IN NUMBER ONE OF SECTION THREE BELOW. A MAJOR SOURCE OF HAPS IS REQUIRED TO OBTAIN A CAAPP PERMIT.

5) NATURAL OR SYNTHETIC MINOR STATUS MUST BE ESTABLISHED **BEFORE** THE FIRST REGULATORY COMPLIANCE DATE OF A REGULATION OF CONCERN IN ORDER TO ENSURE THE REGULATION WILL NOT BE APPLICABLE.
A SOURCE WHICH IS A MAJOR FOR HAPS PAST THE COMPLIANCE DATE FOR AN APPLICABLE REGULATION MUST COMPLY WITH THE REGULATION.

6) INCLUDE EMISSIONS OF HAPS AT ACTIVITIES PROPOSED TO BE INSIGNIFICANT PURSUANT TO 35 IL. ADM. CODE 201.210 AND 201.211.

7) FOR THE PURPOSES OF ESTABLISHING WHETHER AN EMISSION UNIT QUALIFIES AS AN INSIGNIFICANT ACTIVITY AND PROVIDING EMISSION DATA FOR AN EMISSION UNIT IN A CAAPP APPLICATION, AN APPLICANT MAY PRESUME THAT AN EMISSION UNIT DOES NOT EMIT AN AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(B) OF THE CLEAN AIR ACT IF IT MEETS THE REQUIREMENTS OF 35 IAC 201.209. IF UTILIZING THIS PROVISION, THE APPLICANT WILL NEED TO COMPLETE THE SUPPLEMENTAL FORM 215A-CAAPP, "EMISSION UNIT WHICH DOES NOT EMIT A HAZARDOUS AIR POLLUTANT".

8) REFER TO 215-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

SECTION THREE	HAZARDOUS AIR POLLUTANT STATUS	
1) DOES THE SOURCE HAVE THE POTENTIAL TO EMIT, IN THE AGGREGATE, THE FOLLOWING? CHECK ALL THAT APPLY.		
I) 10 TONS PER YEAR OR MORE OF ANY INDIVIDUAL HAZARDOUS AIR POLLUTANT.	☒ YES	☐ NO
II) 25 TONS PER YEAR OR MORE OF ANY COMBINATION OF HAZARDOUS AIR POLLUTANTS.	☒ YES	☐ NO
III) SUCH LESSER QUANTITY AS ESTABLISHED BY RULE WHICH CLASSIFIES THE SOURCE AS MAJOR FOR HAZARDOUS AIR POLLUTANTS.	☐ YES	☒ NO
IV) EMISSIONS OF HAZARDOUS AIR POLLUTANTS WHICH EQUAL OR EXCEED A POLLUTANT SPECIFIC CAAPP APPLICABILITY LEVEL AS ESTABLISHED BY USEPA RULE SUCH THAT THE SOURCE IS REQUIRED TO OBTAIN A CAAPP PERMIT SOLELY FOR THIS REASON (I.E., HAP EMISSIONS BELOW THE CAAPP APPLICABILITY THRESHOLDS SPECIFIED IN ITEMS (I), (II) &(III) ABOVE, BUT STILL REQUIRED TO OBTAIN A CAAPP PERMIT PURSUANT TO A REGULATORY REQUIREMENT, E.G., NESHAP)?	☐ YES	☒ NO
2) CHOOSE **ONE** OF THE FOLLOWING FIVE CHOICES FOR THE SOURCE'S HAZARDOUS AIR POLLUTANT STATUS BY SELECTING "YES". SELECT "NO" FOR ALL OTHERS.		
I) IS THE SOURCE A **NATURAL MINOR** SOURCE FOR HAZARDOUS AIR POLLUTANTS? IF "YES" COMPLETE SECTION 4 AND ATTACH A POTENTIAL TO EMIT ANALYSIS FOR THE SOURCE. THE ANALYSIS MUST INCLUDE CALCULATIONS AND ANY NECESSARY SUPPORTING DOCUMENTATION AND ASSUMPTIONS WHICH JUSTIFY THE SOURCE'S TRUE MINOR STATUS.	☐ YES	☒ NO
II) DOES THE SOURCE REQUEST TO BE CONSIDERED A **SYNTHETIC MINOR** SOURCE FOR HAZARDOUS AIR POLLUTANTS AND ACCEPT THAT THE EMISSIONS OF HAPS FROM THE SOURCE SHALL BE **LESS** THAN 5 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 12.5 TONS/YEAR FOR ALL HAPS COMBINED? IF "YES" COMPLETE SECTIONS 4, AND PROVIDE AS AN ATTACHMENT THE MOST RECENT FIVE (5) YEARS OF ACTUAL HAP EMISSIONS DATA.	☐ YES	☒ NO
III) DOES THE SOURCE REQUEST TO BE CONSIDERED A **SYNTHETIC MINOR** SOURCE FOR HAZARDOUS AIR POLLUTANTS AND ACCEPT THAT THE EMISSIONS OF HAPS FROM THE SOURCE SHALL BE **LESS** THAN 8 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 20 TONS/YEAR FOR ALL HAPS COMBINED? IF "YES" COMPLETE SECTIONS 4 AND SECTION 5, AND PROVIDE AS AN ATTACHMENT THE MOST RECENT FIVE (5) YEARS OF ACTUAL HAP EMISSIONS DATA.	☐ YES	☒ NO
IV) DOES THE SOURCE REQUEST TO BE CONSIDERED A **SYNTHETIC MINOR** SOURCE FOR HAZARDOUS AIR POLLUTANTS AND ACCEPT THAT THE EMISSIONS OF HAPS FROM THE SOURCE SHALL BE **GREATER** THAN 8 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 20 TONS/YEAR FOR ALL HAPS COMBINED, BUT **LESS** THAN 10 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 25 TONS/YEAR FOR ALL HAPS COMBINED? IF "YES" COMPLETE SECTIONS 4, 5, AND 6, AND PROVIDE AS AN ATTACHMENT THE MOST RECENT FIVE (5) YEARS OF ACTUAL HAP EMISSIONS DATA.	☐ YES	☒ NO
V) DOES THE SOURCE REQUEST TO BE CONSIDERED A **MAJOR** SOURCE FOR HAZARDOUS AIR POLLUTANTS? IF "YES" COMPLETE SECTION 4.	☒ YES	☐ NO
3) IF "YES" TO THE QUESTIONS AT SECTION THREE QUESTION 2(II) OR 2(III) OR 2(IV) ABOVE, HAS THE SOURCE PROVIDE AS AN ATTACHMENT THE MOST RECENT FIVE (5) YEARS OF ACTUAL HAP EMISSIONS DATA.	☐ YES ☒ N/A	☐ NO

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION, MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

SECTION FOUR	HAZARDOUS AIR POLLUTANT EMISSIONS					
COMPLETE THE FOLLOWING TABLE FOR ALL HAPS. THIS TABLE MUST ALSO INCLUDE EMISSIONS OF HAPS AT ACTIVITIES PROPOSED TO BE EXEMPT PURSUANT TO 35 IAC 201.146 OR INSIGNIFICANT PURSUANT TO 35 IAC 201.210 OR 201.211 UNLESS THOSE EMISSION UNITS DO NOT EMIT A HAP PURSUANT TO 35 IAC 201.209. IF UTILIZING THIS PROVISION, THE APPLICANT WILL NEED TO COMPLETE FORM 215A-CAAPP, "EMISSION UNIT WHICH DOES NOT EMIT A HAZARDOUS AIR POLLUTANT."						
EMISSION UNIT DESIGNATION	NAME OF HAP EMITTED	CHEMICAL ABSTRACT SERVICE (CAS) NUMBER	TYPICAL EMISSIONS (TONS//YR)	MAXIMUM EMISSIONS (TONS/YR)	POTENTIAL EMISSIONS (TONS/YR)	APPLICABLE STANDARD(S)
Incorporated by Reference						

SECTION FIVE	HAP TESTING TO VERIFY MINOR SOURCE STATUS			
[1] EMISSION UNIT DESIGNATION	[2] NAME OF PREDOMINANT HAPS EMITTED	[3] HAP TESTING METHODOLOGY	[4] HAP TESTING FREQUENCY	[5] HAP TESTING RATIONALE
N/A				

1 LIST THOSE EMISSION UNIT(S) AT THE SOURCE WHICH CONTRIBUTE AT LEAST 1.0 TON/YEAR FOR AN INDIVIDUAL HAP OR 2.5 TONS/YEAR FOR ALL HAPS COMBINED.
2 PREDOMINANT HAPS ARE THOSE CONSTITUENT HAP EMISSIONS WHICH CONTRIBUTE GREATER THAN 25% OF THAT EMISSION UNIT'S HAP CONTRIBUTION.
3 LIST THE SOURCE'S SUGGESTED HAP TESTING METHODOLOGY: 1) STACK TEST (LIST METHOD), 2) STANDARD TEST METHOD (EXPLAIN), 3) RELEVANT NSPS OR NESHAP TEST METHODOLOGY WHICH TESTS FOR HAPS (EXPLAIN), 4) MANUFACTURE'S HAP TESTING (EXPLAIN), 5) OTHER (EXPLAIN)
4 LIST THE SOURCE'S SUGGESTED HAP TESTING FREQUENCY.
5 EXPLAIN THE RATIONALE AND ADEQUACY OF THE SUGGESTED TESTING.

SECTION SIX — PROCESS AND EMISSIONS LIMITATIONS FOR SOURCES REQUESTING HAP LIMITS GREATER THAN 8/20 TONS/YEAR BUT LESS THAN 10/25 TONS/YEAR

LIMITATIONS SHALL BE TOTALED SUCH THAT THE SOURCE HAP EMISSIONS WILL BE LIMITED TO LESS THAN 10 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 25 TONS/YEAR FOR ALL HAPS COMBINED.

EMISSION UNIT DESIGNATION	[1] PROCESS LIMITATIONS	[2] HAP CALCULATION METHODOLOGY	[3] HAP EMISSION LIMITATIONS	[4] RECORDKEEPING
N/A				

1 LIST THE SOURCE'S SUGGESTED PROCESS LIMITATIONS WHICH WILL CONSTRAIN THE PROCESS'S HAP EMISSIONS. PROCESS LIMITATIONS INCLUDE PRODUCION LIMITS, FUEL USAGE LIMITS, OPERATING RESTRICTIONS, ETC.

2 LIST THE SOURCE'S SUGGESTED HAP CALCULATION METHODOLOGY: 1) STACK TEST, 2) STANDARD TEST METHOD (EXPLAIN), 3) MANUFACTURE'S HAP TESTING, 4) MATERIAL BALANCE, 5) EMISSION FACTOR, 6) OTHER (EXPLAIN).

3 LIST THE SOURCE'S SUGGESTED HAP EMISSION LIMITATIONS WHICH WILL LIMIT THE SOURCE TO LESS THAN 10 TONS/YEAR FOR EACH INDIVIDUAL HAP AND 25 TONS/YEAR FOR ALL HAPS COMBINED.

4 LIST THE SOURCE'S SUGGESTED RECORDKEEPING NEEDED TO DOCUMENT THE PROCESS AND EMISSION LIMITATIONS.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

EMISSION UNIT WHICH DOES NOT EMIT A HAZARDOUS AIR POLLUTANT

FOR AGENCY USE ONLY
ID NO.:
PERMIT NO.:
DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 03 / 15 / 2011

SECTION TWO — INSTRUCTIONS IN BRIEF

1) FOR THE PURPOSES OF ESTABLISHING WHETHER AN EMISSION UNIT QUALIFIES AS AN INSIGNIFICANT ACTIVITY AND PROVIDING EMISSION DATA FOR AN EMISSION UNIT IN A CAAPP APPLICATION, AN APPLICANT MAY PRESUME THAT AN EMISSION UNIT DOES NOT EMIT AN AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(B) OF THE CLEAN AIR ACT IF IT MEETS THE REQUIREMENTS OF 35 IAC 201.209.

2) PURSUANT TO 35 IAC 201.109, AN APPLICANT MAY PRESUME THAT AN EMISSION UNIT DOES NOT EMIT AN AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(B) OF THE CLEAN AIR ACT IF:

A. RAW MATERIAL, OTHER THAN FUEL, FOR THE EMISSION UNIT CONTAINS A CONCENTRATION BY WEIGHT OF SUCH POLLUTANT THAT IS EQUAL TO OR LESS THAN THE FOLLOWING:

I. 0.01 PERCENT BY WEIGHT FOR THE FOLLOWING POLLUTANTS IF MORE THAN 1 TON OF THE RAW MATERIAL IS USED ANNUALLY:

ALKYLATED LEAD COMPOUNDS
POLYCYCLIC ORGANIC MATTER
HEXACHLORO BENZENE,
MERCURY
POLYCHLORINATED BIPHENYLS
2,3,7,8-TETRACHLORODIBENZOFURANS
2,3,7,8-TETRACHLORIDIBENZO-P-DIOXIN

II. 0.01 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE IN (A)(I) ABOVE IF MORE THAN 1,000 TONS OF THE RAW MATERIAL ARE USED ANNUALLY

III. 0.1 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE ADDRESSED IN (A)(I) OR (A)(I)(II) ABOVE.

B. THE FUEL USED IN THE EMISSION UNIT DOES NOT QUALIFY AS A HAZARDOUS WASTE AND THE EMISSION UNIT IS NOT SUBJECT TO AN APPLICABLE REQUIREMENT FOR THE POLLUTANT.

3) FOR EMISSION UNIT(S) WHICH PRESUME NOT TO EMIT AIR POLLUTANTS LISTED AS HAZARDOUS PURSUANT 35 IAC 201.109, PROVIDE AS AN ATTACHMENT THE NECESSARY DATA TO SUPPORT THE CLAIM. NECESSARY DATA MAY INCLUDE MATERIAL SAFTEY DATA SHEETS, RAW MATERIAL ANNUAL USAGE RATES, ETC

4) THIS FORM MAY BE COPIED AS NEEDED FOR ADDITIONAL EMISSION UNITS OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL WITH THE APPROPRIATE EMISSION UNIT DESIGNATION.

5) REFER TO 215A-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5 FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED

SECTION THREE	EMISSION UNIT(S) DOES NOT EMIT AN HAZARDOUS AIR POLLUTANT				
EMISSION UNIT DESIGNATION	OTHER THAN FUEL USED, DOES THE RAW MATERIAL(S) FOR THE EMISSION UNIT(S) CONTAIN A POLLUTANT CONCENTRATION BY WEIGHT THAT IS EQUAL TO OR LESS THAN THE FOLLOWING:			DOES THE FUEL USED IN THE EMISSION UNIT QUALIFY AS A HAZARDOUS WASTE AND IS THE EMISSION UNIT SUBJECT TO AN APPLICABLE REQUIREMENT FOR THE POLLUTANT?	HAS DATA NECESSARY TO SUPPORT THE CLAIM THAT THE EMISSION UNIT DOES NOT EMIT AN HAZARDOUS AIR POLLUTANT BEEN PROVIDED AS AN ATTACHMENT TO THIS FORM?
	0.01 PERCENT BY WEIGHT FOR THE FOLLOWING POLLUTANTS IF MORE THAN 1 TON OF THE RAW MATERIAL IS USED ANNUALLY: ALKYLATED LEAD COMPOUNDS, POLYCYCLIC ORGANIC MATTER, HEXACHLORO BENZENE, MERCURY, POLYCHLORINATED BIPHENYLS, 2,3,7,8-TETRACHLORODIBENZOFURANS, AND 2,3,7,8-TETRACHLORIDIBENZO-P-DIOXIN?	0.01 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE LISTED TO THE LEFT IF MORE THAN 1,000 TONS OF THE RAW MATERIAL ARE USED ANNUALLY?	0.1 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE LISTED IN THE COLUMNS TO THE LEFT?		
Coal Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Coal Processing	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Limestone Preparation	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Ash Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Cooling Towers	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
PAC and HL Storage (See MSDS)	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Soda Ash and Lime Storage (See MSDS)	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Fuel and Oil Storage Tanks	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [X] NO	[X] YES [ ] NO
	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [ ] NO

Coal and Ash Composition at PSGC

Substance	Trace Amount of Illinois Coal[a] (ppm)	Coal/Ash Concentration (% by Volume)
Arsenic	4	0.0004%
Antimony	0.2	0.00002%
Barium	145	0.0145%
Beryllium	1.0	0.0001%
Boron	66	0.0066%
Cadmium	0.8	0.00008%
Chromium	24	0.0024%
Copper	11	0.0011%
Fluorine	112	0.0112%
Lead	8	0.0008%
Lithium	10	0.0010%
Manganese	57	0.0057%
Mercury	0.09	0.000009%
Nickel	12	0.0012%
Selenium	3	0.0003%
Silver	0.2	0.00002%
Strontium	50	0.0050%
Vanadium	31	0.0031%
Zinc	85	0.0085%

[a] Part per million value as reported in the PSD application.

Example MSDS for Limestone. Note that the actual material may vary.

MSDS - Limestone

Issued November 26, 2007

Section 1. Product Information

Chemical Name: Calcium Carbonate

Product Name: Limestone, Calcium Carbonate, Calcite, Aragonite, Fluxstone

Formula: CaCO3

CAS No.: 1317-65-3

Distributed by Pestell Minerals & Ingredients, New Hamburg, ON Canada

24 Hour Emergency Telephone (Canutec): 613-996-6666

Section 2. Hazards Identification

Calcium Carbonate (Limestone): 60 to 100% by weight

CAS Number: 471-34-1 (1317-65-3)

OSHA PEL: 15 (tot dust) 5 (resp. dust)

ACGIH TLV: 10 (tot dust)

MSHA PEL: 15 (tot dust) 5 (resp dust)

NIOSH REL: 10 (tot dust) 5 resp dust)

Crystaline Silica, Quartz: 0.1 to 1% Approx concentration % by weight:

CAS Number: 14808-60-7

OSHA PEL: 10/(%SiO2)+2 respirable silica dust

ACGIH TLV: 0.025 respirable silica dust

MSHA PEL: 10/(%SiO2)+2 respirable silica dust

NIOSH REL: 0.05 respirable free silica

Section 3. Physical Data

Odour/Appearance: Odourless, grey to brown lumps, granules or powder

Physical State:	Solid	pH: (saturated solution):	sat.sln CaCO3 9.4 @ 25°C
Specific Gravity:	2.65 - 2.75	Boiling Point:	N/A
Melting Point:	N/A	Coef. Water/Oil Dist:	>1
Vapour Pressure:	N/A	Relative Density:	N/A
Solubility:	0.001% by weight		

Section 4. Fire and Explosion Hazard

Flash Point: Non flammable

Auto-Ignition Temperature: Not applicable

Upper/Lower Flammable Limits: None

Explosion Risk: Not applicable

Hazardous Combustion Products: None

Extinguishing Media: Limestone does not burn. Use extinguishing media appropriate to surrounding fire conditions.

Fire Fighting Instructions:

Limestone is generally non flammable, but ignites on contact with fluorine. Wear adequate personal protection to prevent contact with material or its combustion products. Firefighters should use self contained NIOSH approved breathing apparatus with full face piece to protect against the products of combustion.

Section 5. Reactivity

Stability: Stable products, not very soluble

Hazardous Decomposition Products: Decomposition at 870°C will produce calcium oxide and carbon dioxide.

Reactivity: Limestone is a very stable chemical substance. Decomposition does not occur at normal temperatures (inferior to 600 degrees C). Reacts chemically with strong acids to form calcium based compounds and to liberate carbon dioxide.

Incompatible Materials: Fluorine, magnesium, aluminum, silicon, hydrogen, mercury, aluminum sulfate, ammonium salts, acids (violent reaction with generating heat and possible explosion in confined area).

Hazardous Decomposition Products: Calcium oxide

Section 6. Toxicological Properties

Routes of Entry: Skin, Eye, Acute Inhalation, Ingestion

Effects of Acute Exposure to Product

Skin: May cause dryness and irritation.

Eyes: May cause eye irritation with discomfort or pain, local redness and swelling of the conjunctiva.

Irritation: Eye-Rabbit - 750 ug/24 h - severe

Inhalation: If inhaled in form of dust, may cause respiratory tract, irritation/inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitis.

Ingestion: Cause gastro-intestinal irritation. If ingested in large quantities may cause nausea, constipation and hypercalcaemia, hemorrhage

Effects of Chronic Exposure to Product

No signs or symptoms of chronic exposure have been reported. This product may contain trace amounts of crystalline silica. Excessive inhalation or respirable crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis.

Carcinogenicity

Limestone is not listed as a carcinogen by ACGIH, MSHA, OSHA, NTP or IARC. It may, however, contain trace amounts of Crystalline Silica listed carcinogens by these organizations.

Crystalline Silica, which inhaled in the form of quartz or crystobalite from occupational sources, is classified by IARC as (Group 1) carcinogenic to humans.

Silica, crystalline (Airborne particles of respirable size) is regulated under California's Safe Drinking Water and Toxic Enforcement Act of 1986. (Proposition 65).

NIOSH considers crystalline silica to be potential occupational carcinogen as defined by the OSHA carcinogen policy (29 CFR 1990).

NTP lists respirable Crystalline Silica as known to be human carcinogens based on sufficient evidence of carcinogenicity in humans.

ACGIH lists respirable Crystalline Silica (quartz) as suspected human carcinogen (A-2)

RSST lists respirable Crystalline Silica (quartz) as suspected human carcinogen

Section 7. Preventive Measures

Personal Protective Equipment: Wear clean, dry gloves, full length pants over boots, long sleeved shirt buttoned at the neck, head protection and approved eye protection selected for the working conditions.

Gloves: Gauntlets cuff style

Respiratory: NIOSH approved (N/R/P95) dust respirator

Eyes: ANSI, CSA or ASTM approved safety glasses with side shields. Tight fitting goggles should be worn when excessive (visible) dust conditions are present.

Clothing: Fully covering skin

Other: Evaluate degree of exposure and use PPE if necessary

Engineering Controls

Enclose dust sources, use exhaust ventilation (dust collector) or other engineering controls at handling points to keep airborne levels below recommended exposure limits.

Leak and Spill Procedures

Limit access to trained personnel. Sweep up and place in container. Use industrial vacuums for large spills. Avoid raising dust. Ventilate area.

Waste Disposal

Transport to disposal area or bury. Review Federal, Provincial and local Environmental regulations

Handling Procedures and Equipment

Avoid skin and eye contact. Minimize dust generation. Wear protective goggles and in cases of insufficient ventilation, use anti dust mask. An eye wash station should be readily available where this is used.

Storage

Keep tightly closed containers in cool, dry and well ventilated area, away from acids.

Special Shipment Information

Limestone is neither regulated by the Transportation of Dangerous Goods (TDG) Regulations (Canada) nor by the Hazardous Materials Regulation (USA).

Section 8. First Aid Measures

Skin: Carefully and gently brush the contaminated body surfaces in order to remove all traces of Limestone. Use a brush, cloth or gloves. Remove all Limestone contaminated clothing. Rinse

contaminated area with lukewarm water for 15 to 20 minutes. If irritation occurs or persists seek medical attention:

Eyes: Immediately rinse contaminated eye(s) with gently running lukewarm water (saline solution is preferred) for 15 to 20 minutes. In the case of an embedded particle in the eye, or if irritation occurs or persists, consult a physician.

Inhalation: Move source of dust or move victim to fresh air. Obtain medical attention immediately. If victim does not breathe, give artificial respiration. Contact a physician immediately.

Ingestion: If victim is conscious, wash mouth out with water. Have conscious person drink several glasses of water to dilute. Induce vomiting. Contact a physician immediately. Never give anything by mouth to an unconscious or convulsing person.

General Advice

Consult a physician for all exposures except minor instances of inhalation.

Disclaimer

This information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Pestell Minerals & Ingredients makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or combination with any other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

HAPs in the Cooling Towers

Water used in the cooling towers is taken directly from the nearest natural source (river) and treated before use in the cooling towers. Since the water is never introduced to any processes, (i.e. closed loop with respect to the ancillary activities it cools) PSGC anticipates that no organic HAPs will be introduced into the cooling towers in an appreciable amount.

Due to the above and assuming that the river water will also not contain an appreciable amount of HAPs after treatment, PSGC feels that the cooling towers are not HAP emitting emission units.

Example MSDS for Hydrated Lime. Note that the actual material may vary.

MISSISSIPPI LIME COMPANY – MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION

PRODUCT IDENTIFICATION	CHEMICAL ABSTRACT	DATE REVISED
Calcium Hydroxide "Hydrated Lime"	**CAS 1305-62-0**	**01/01/2010** **Previous Versions Obsolete**

Product Line: MicroCal – HF, HFT20, HM, HS; PetroCal – HF, HM, HS; Standard Hydrated Lime; Standard Hydrated - Lime, CG, SBP (Flow Treated) , SP,; Liquid Calcium Hydroxide (LCH); MP Liquid Calcium Hydroxide (MPLCH); VitaCal – H, LCH; Architectural Lime Putty

Section I

MANUFACTURER	24 Hour Emergency Contact Number: (800) 437-5463	HMIS RATING
Mississippi Lime Company 16147 US Highway 61 Ste Genevieve, MO 63670 Website Mississippilime.com	Telephone Number for Information: (800) 437-5463	**Health - 2** **Flammability - 0** **Physical Hazards - 0** **Protective Equip - E**
	Signature of Preparer *J.S. Castleberry*	

Section II – Hazardous Ingredients / Identity Information

Specific Chemical Identity; Common Names	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Calcium Hydroxide; Slaked Lime; Hydrated Lime	5 mg/m^3	5 mg/m^3		
Crystalline Silica (Quartz)	0.1 mg/m^3	0.05 mg/m^3	Respirable	Variable <0.10-0.2%

Calcium Hydroxide is not listed on the NTP, IARC, or OSHA lists of carcinogens. Calcium hydroxide produced with quicklime manufactured by coal fired kilns may contain crystalline silica >0.1%. Crystalline silica is listed by IARC and NTP but not by OSHA. In 1997, IARC determined that "crystalline silica inhaled in the form or quartz or crystobalite from occupational sources is carcinogenic to humans (Group 1). OSHA requires that products containing >0.1% of a known carcinogen must be labeled. NTP states that "silica, crystalline (respirable)" may reasonably be anticipated to be a carcinogen (1991). Mississippi Lime Company recommends using personal protection equipment when handling this product.

Section III – Physical / Chemical Characteristics

Boiling Point (Calcium Oxide)	5162 °F	Specific Gravity (H_2O) = 1)	2.2
Vapor Pressure (mm Hg)	NA	Melting Point – Loses CO^2	1076 °F
Vapor Density (Air = 1)	NA	Evaporation Rate	NA
Solubility in Water	0.185 % @ 0 °C; 0.077 % @ 100 °C		
Appearance and Color	Odorless; White as a dry powder, wet slurry, or paste		

Section IV – Fire and Explosion Hazard Data

Flash Point	NA	Flammable Limits – NA
Extinguishing Method	NA	
Special Fire Fighting Procedures	NA	
Unusual Fire and Explosion Hazards	NA	

PRODUCT IDENTIFICATION	CHEMICAL ABSTRACT	DATE REVISED
Calcium Hydroxide "Hydrated Lime"	**CAS No. 1305-62-0**	**1/01/2010**

Section V – Reactivity Data

Stability	Stable	Conditions to Avoid – NA
Incompatibility (Materials to Avoid)		Acids, Inter-halogens, Phosphorus (V) Oxide
Hazardous Decomposition or Byproducts		None
Hazardous Polymerization	Will Not Occur	Conditions to Avoid – NA

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation? YES	Absorption Through Skin? YES	Ingestion (swallowing)? - YES
Health Hazards	Acute	Prolonged contact may irritate or burn skin - especially in the presence of moisture. Inhalation of dust may irritate mucous membranes or respiratory passages. Direct eye contact may cause permanent damage.	
	Chronic	Long term exposure can cause irritation	
Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
Calcium Hydroxide	NO	NO	NO
Crystalline Silica	YES	YES	YES
Signs and Symptoms of Exposure		Irritation of eyes, respiratory tract, or red "sun burn" like skin.	
Medical Conditions Generally Aggravated by Exposure		Respiratory disease, skin condition.	
Emergency and First Aid Procedures		Provide fresh air. Wash off dust with soap and water. Drink plenty of water if swallowed. Flush eyes with water immediately and contact physician.	

Section VII – Precautions for Safe Handling

Steps to Be Taken in Case Material is Released or Spilled	Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended.
Waste Disposal Method	Dispose of product in accordance with Federal, State and Local regulations. **See Section IX Guidance**
Precautions to Be Taken in Handling	Store away from water and acids.
Other Precautions	

Section VIII – Control Measures

Respiratory Protection - Dust filter masks are recommended for personal comfort and/or protection		
Ventilation	Local Exhaust – To maintain TLV's and PEL's Mechanical – To maintain TLV's and PEL's	Special – None Other – None
Protective Gloves – Cloth/leather gloves when handling dry product –rubber gloves if wet or damp		
Eye Protection – ALWAYS wear shielded glasses and/or fitted goggles around product to reduce eye injury. Wearing of contact lenses may impede first aid.		
Other Protective Clothing – Wear long sleeve shirts and pants to minimize skin contact with product.		
Work / Hygienic Practices – Maintain dust exposure limits below TLV's and PEL's. Whenever necessary wear respiratory protection. Air blowers are effective for dedusting skin and clothing.		

PRODUCT IDENTIFICATION	CHEMICAL ABSTRACT	DATE REVISED
Calcium Hydroxide "Hydrated Lime"	**CAS No. 1305-62-0**	**1/01/2010**

Section IX – Regulatory Compliance Guidance

CONEG	Materials used to manufacture bags containing products are CONEG compliant.
CWA	Product contains alkaline material potentially toxic to aquatic life if concentration is elevated for extended periods of time. Minimize contact with storm water runoff.
DOT	Product is not regulated by U.S. Dept of Transportation
EPA	Waste derived from unused products is not subject to RCRA. Waste is acceptable at most landfills as a "special waste" but can often be beneficially reused for other purposes.
SPILL	Whenever possible, contain and sweep up spillage in dry form rather than flushing with water. Fire may occur in containers if damp product is placed in direct contact with combustible materials.
TSCA	Product is listed on Toxic Substance Control Act, Canada DSL and all other International Inventories
Prop65	Subject to California Proposition 65 warning labeling requirements due to presence of trace metals and crystalline silica above instrument detection levels.
NAFTA	Product qualifies under HS Tariff No 2522.20 or 2825.90 as 100% US Origin, Preference Criteria A. Annual certification is provided upon direct request.
REACH	Product has been pre-registered under **05-2116 374 587-30-0000** EINECS # **215-137-3**

MATERIAL SAFETY DATA SHEET

Date Printed: 07/12/2006
Date Updated: 01/31/2006
Version 1.10

Section 1 - Product and Company Information

Product Name	ACTIVATED CARBON, DARCO, 20-40 MESH, GRANULAR
Product Number	242268
Brand	SIAL
Company	Sigma-Aldrich
Address	3050 Spruce Street SAINT LOUIS MO 63103 US
Technical Phone:	800-325-5832
Fax:	800-325-5052
Emergency Phone:	314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
CARBON	7440-44-0	No

Formula: C

Synonyms: Acticarbone * AG 3 (Adsorbent) * AG 5 * AG 5 (Adsorbent) * AK (Adsorbent) * Amoco PX 21 * Anthrasorb * AR 3 * ART 2 * AU 3 * BAU * BG 6080 * Colgon BPL * Colgon PCB-D * Colgon PCB 12X30 * Canesorb * Carbon-12 * Carbopol Extra * Carbopol M * Carbopol Z 4 * Carbopol Z Extra * Carbosieve * Carbosorbit R * Cecarbon * CF 8 * CF 8 (Carbon) * CLF II * CMB 50 * CMB 200 * Coke powder * Columbia LCK * CUZ 3 * CWN 2 * Darco * Filtrasorb * Filtrasorb 200 * Filtrasorb 400 * Grosafe * Hydrodarco * Irgalite 1104 * Jado * K 257 * MA 100 (Carbon) * Norit * Nuchar * OU-B * Pelikan C 11/1431a * SKG * SKT * SKT (adsorbent) * SU 2000 * Suchar 681 * Supersorbon IV * Supersorbon S 1 * U 02 * Watercarb * Witcarb 940 * XE 340 * XF 4175L

RTECS Number: FF5250100

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation.

HMIS RATING

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING

HEALTH: 0
FLAMMABILITY: 0
REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Example MSDS for Powder Activated Carbon. Note that the actual material may vary.

Section 4 - First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

EXPLOSION DATA
Dust Potential: This material, like most materials in powder form, is capable of creating a dust explosion.

FLASH POINT
N/A

AUTOIGNITION TEMP
450 °C

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING
User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.
Hand: Protective gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	MSHA Standard		
Remarks: Nuisance Particulates.			
USA	OSHA.	PEL	8H TWA 15 MG/M3, TOTAL DUST
New Zealand OEL			
Remarks: check ACGIH TLV			

EXPOSURE LIMITS

Country	Source	Type	Value
	OSHA.	REL	2.1 mg/m3

Section 9 - Physical/Chemical Properties

Appearance	Physical State: Solid Color: Black Form: Powder Granules Odor: Odorless

Property	Value	At Temperature or Pressure
Molecular Weight	12.01 AMU	
pH	6.0 - 9.0	
BP/BP Range	N/A	
MP/MP Range	N/A	
Freezing Point	N/A	
Vapor Pressure	< 0.1 mmHg	20 °C
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Bulk Density	0.336 kg/l	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	
Explosion Limits	N/A	

Flammability	N/A
Autoignition Temp	450 °C
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	Solubility in Water:Insoluble. Solvent: Insoluble. Other Solvents: ORGANIC SOLVENTS

N/A = not available

Section 10 - Stability and Reactivity

STABILITY
Stable: Stable.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

TOXICITY DATA

Intravenous
Mouse
440 MG/KG
LD50

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat
Dose: 167 MG/KG
Route of Application: Subcutaneous
Exposure Time: (8D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Section 12 - Ecological Information

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION
S: 24/25-22
Safety Statements: Avoid contact with skin and eyes. Do not breathe dust.

US CLASSIFICATION AND LABEL TEXT
US Statements: Caution: Avoid contact and inhalation.

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: Yes
NDSL: No

Section 16 - Other Information

DISCLAIMER
For R&D use only. Not for drug, household or other uses.

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.
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Example MSDS for Soda Ash. Note that the actual material may vary.

MATERIAL SAFETY DATA SHEET

Date Reviewed: January 2010 Supersedes: January, 2009

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200; the Canada's Workplace Hazards Materials Information System (WHMIS) and, the EC Directive, 2001/58/EC.

1. Product and Company Identification

Product Name	Sodium Carbonate, Anhydrous
Alternate Product Name(s)	Soda Ash, Disodium Carbonate Also: Dense Soda Ash, Soda Ash Light, Synthetic Light Soda Ash, Soda Ash Liquid, Natural Light HA Soda Ash
Chemical Formula	Na_2CO_3
Product Use	Glass manufacture, detergent manufacture, sodium chemicals and carbonate chemicals manufacture, pulp and paper, brine treatment, water hardness removal, pH adjustment in water or wastewater, flue gas desulphurization, coal treatment, ion exchange resin regeneration.

This chemical is certified to ANSI/NSF Standard 60, Drinking Water Chemicals – Health Effects (as packaged in the original, unopened container). Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.

SUPPLIER: HARCROS CHEMICALS, INC
5200 Speaker Road
Kansas City, KS 66106-1095
913-321-3131

MSDS No.: 104274

Transportation Emergency Telephone Number: 1-800-424-9300

2. Composition / Information on Ingredients

Chemical Name	CAS #	Wt. %	EC No.	EC Class
Sodium Carbonate	497-19-8	99.8	207-838-8	XI, R36

3. Hazards Identification

Emergency Overview: White, odorless, granular solid. Product is non-combustible. Reacts with acids to release carbon dioxide gas and heat. May irritate skin and eyes. Dusts may irritate respiratory tract. Not expected to be toxic to the environment, nor to aquatic organisms. Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

Potential Health Effects:

Skin	Prolonged contact may cause skin irritation (red, dry, cracked skin).
Eyes	Irritating to the eyes.
Ingestions	Although low in toxicity, ingestion may cause nausea, vomiting, stomach ache, and diarrhea.
Inhalation	Prolonged inhalation of product dusts may irritate nose, throat, and lungs.
Chronic Effects	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

4. First Aid Measures

Skin	Wash with plenty of soap and water. Get medical attention if irritation occurs and persists
Eyes	Immediately flush with water for at least 15 minutes lifting the upper and lower eyelids intermittently. See a medical doctor or ophthalmologist as necessary.
Ingestions	Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a doctor or poison control center...
Inhalation	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.
Advice to Physician	While internal toxicity is low, irritant effects of high concentrations may produce corneal opacities, and vesicular skin reactions in humans with abraded skin only. Treatment is symptomatic and supportive.

5. Fire Fighting Measures

Extinguishing Media:	Not combustible, use extinguishing method suitable for surrounding fire.
Fire/Explosion Hazards:	Not applicable.
Fire Fighting Procedures:	Wear full protective clothing and self-contained breathing apparatus
Flammable Limits:	Not applicable
Auto Ignition Temperature:	Not applicable
Hazardous Combustion Products:	Carbon dioxide.
Sensitivity to Impact:	None
Sensitivity to Static Discharge:	None

6. Accidental Release Measures

Personal Precautions:	Refer to Section 8 "Exposure Controls / Personal Protection"
Containment:	Prevent large quantities of this product from contacting vegetation or waterways; large spills could kill vegetation and fish.
Clean Up:	This product, if spilled, can be recovered and re-used if contamination does not present a problem. Vacuum or sweep up the material. If the spilled product is unusable due to contamination, consult state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".
Notification Requirements:	Federal regulations do not require notification for spills of this product. State and local regulations may contain different requirements; consult local authorities.

7. Handling and Storage

Handling:	Use air conveying / mechanical systems for bulk transfer to storage. For manual handling of bulk transfer use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains. Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring; solutions can get hot. Use good personal hygiene and housekeeping.
Storage:	Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

8. Exposure Controls / Personal Protection

Engineering Controls:	Where possible, provide general mechanical and/or local exhaust ventilation to prevent release of airborne dust into the work environment. Eye wash facility should be provided in storage and general work area.

Personal Protective Equipment:

Eyes and Face:	For dusty or misty conditions, or when handling solutions where there is reasonable probability of eye contact, wear chemical safety goggles and hardhat. Under these conditions do not wear contact lenses. Otherwise, appropriate eye and face protection equipment (ANSI Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.
Respiratory:	Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable certification organization to protect them against airborne dust.

Hands, Arms, and Body:	Wear long-sleeve shirt and trousers, and impervious gloves for routine product use. Cotton gloves are sufficient for dry product; wear impervious (e.g., rubber, neoprene, etc.) gloves when handling solutions.

Exposure Guidelines: Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure. As with all nuisance dusts, worker breathing zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSHA) apply to this material:

Particulates Not Otherwise Regulated:
OSHA (PEL / TWA): 15 mg/m^3 (total dust); 5 mg/m^3 (rasp fraction)
MSHA (PEL / TWA): 10 mg/m^3 (total dust)

Avoid simultaneous exposure to soda ash and lime dust. In the presence of moisture (i.e. perspiration) the two materials combine to form caustic soda (NaOH), which may cause burns.

The information noted above provides general guidance for handling this product. Specific work environments and material handling practices will dictate the selection and use of personal protective equipment (PPE).

9. Physical and Chemical Properties

Appearance:	White, granular solid
Odor:	Odorless
Formula:	Na_2CO_3
Molecular Weight:	
Bulk Density (g/l)	Dense grades: 0.9 – 1.1 Natural light grade: 0.7 – 0.9 Synthetic light grade: 0.5 – 0.7
Specific Gravity:	2.533 (vs. water)
Boiling Point:	Decomposes
Melting Point:	854°C (1569°F)
Evaporation Rate:	Not applicable
Percent Volatile:	0%
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable
pH (1% solution)	11.3
Flash Point	None

10. Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	Contract with acids will release carbon dioxide, heat. Contract with lime dust in the presence of moisture can produce corrosive sodium hydroxide.
Materials to avoid	May react with aluminum, acids, fluorine, lithium, and 2,4,6-Trinitrotoluene.
Polymerization:	Will not occur.
Hazardous Decomposition	When heated to decomposition, carbon dioxide is released.

Products	
Other Precautions:	When dissolving, add to water cautiously and with stirring; solutions can get hot.

11. Toxicological Information

Eye:	Severe irritant (50 mg, rabbit).
Skin:	Mild irritant (500 mg/24hr, rabbit). Minor irritation may occur on abraded skin. Not a sensitizer (tested at 0.25% solution).
Oral:	LD_{50}, rat: 4,090 mg/kg
Inhalation:	LC_{50}, rat, 2hr 2.3 mg/l 24 – hour LC_{50}: 800 mg/m^3, 20 h exposure (guinea pig) (moderate toxicity)
Chronic:	Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.
Carcinogenicity:	Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

12. Ecological Information

Acute ecotoxicity:	96 – hour LC_{50}: 265 – 565 mg/l (daphnia magnia) (low toxicity) 300 – 320 mg/l (blue gill sunfish) (low toxicity) 96 – hour TL_m: 1200 mg/l (mosquito-fish) 48 – hour TL_m: 840 mg/l (mosquito-fish) 48 – hour EC_{50}: 265 mg/l (daphnia magnia) 5 Day EC_{50}: 242 mg/l (Nitszcheria linearis)
Chronic ecotoxicity:	7 Day EC_{50} biomass: 14 mg/l (phytoplankton)
Mobility:	Air: Not Applicable Water: Considerable solubility and mobility. Soil / sediments: Non-significant adsorption
Abiotic degradation:	Water (hydrolysis): degradation's products: carbonate (pH>10) / carbonic acid / carbon dioxide (pH<6). Soil: Hydrolysis as a function of pH.
Biotic degradation:	Aerobic / anaerobic: Not applicable (inorganic compound
Potential for bioaccumulation:	Not applicable (ionizable inorganic compound)

Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment.

13. Disposal Considerations

Disposal When this product is discarded or disposed of, as purchased, it is neither a

Method:	characteristic nor a listed hazardous waste according to US Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements prior to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a hazardous waste.

14. Transportation Considerations

Proper Shipping Name:	Not regulated
Primary Hazard Class / Division:	Not regulated
UN / NA Number:	Not applicable
Label(s), Placard(s), Marking(s):	Not applicable
Reportable Quantity (RQ)	None
49 STCC Number:	Not Applicable
ADR (EU), TDG (Canada)	Not regulated
IMDG (sea) , ICAO (air), IATA (air)	Not regulated

15. Regulatory Information

UNITED STATES:

SARA Title III (Superfund Amendments and Reauthorization Act)

Section 302 Extremely Hazardous Substances: 40CFR355, Appendix A	Not listed
Section 311 Hazard Class 40CFR370	Immediate (acute)
Section 312 Threshold Planning Quantity (TPQ) 40CFR370	No TPQ listed for sodium carbonate.
Section 313 Reportable Ingredients 40CFR372	Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act): 40CFR302.4 –

There is no listed RQ (reportable quantity) for this product.

TSCA (Toxic Substance Control Act)

This product is listed on the TSCA Inventory of Chemical Substances. No other TSCA rules affect this product

State Regulations:

This product does not contain any components that are regulated under California Proposition 65.

Other:

Clean Water Act (CWA) – Section 301/ 311: Not listed
Clean Air Act (CAA) – Section 112: Not regulated

CANADA:

WHMIS Classification:	D2B Toxic Class E Corrosive Symbol:  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS Ingredient Disclosure List	Listed
DSL Status (Domestic substances list)	Listed on DSL

EUROPEAN UNION:

EINECS Inventory	Listed: 207-838-8
Annex I (Substances Directive)	Listed: 011-005-00-2 Xi, R-36 (See label details in Section 16)
Greman Water Classificatin	hazard class 1, low hazard to waters
EU - Food Additives Directive (95/2/EC) - Annex I - Generally Permitted for Use in Foodstuff	E500

INTERNATIONAL:

This product is also found on the chemical inventories of Australia, China, Korea, Japan and the Philippines.

16. Other Information

HMIS (Hazardous Material Identification System)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection (PPE)	B

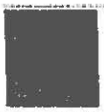
Protection = B (Safety glasses and gloves)
4 = Severe, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal

NFPA (National Fire Protection Association System)

Health	2
Flammability	0
Reactivity	0
Special	None

4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

EC Labeling

Name of substance to appear on label.	Soduim Carbonate
Symbol(s)	 Xi – irritating
Label Phrases	R36: Irritating to eyes. S2: Keep out of reach of children. S22: Do not breathe dust. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other Information: Soda ash is produced in three principal grades: Dense, natural light and synthetic light soda ash. When these products are mixed in water they may be known as liquid soda ash. These grades differ only in physical characteristics such as bulk density and size and shape of particles, which influence flow characteristics and angle of repose. Other physical properties, as well as chemical as chemical properties of solutions, are common to each grade of soda ash.

Certified to ANSI / NSF 60

Concentration not to exceed 100 ppm when used for corrosion control or scale control pH adjustment.

NSF

The Information provided in this Material Safety Data Sheet has been obtained from sources believed to be reliable. Harcros Chemicals, Inc., provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is provided for your information, consideration and investigation. You should satisfy yourself that you have all current data relevant to your particular use. Harcros Chemicals, Inc. knows of no medical condition other than those noted on this Material Safety Data Sheet, which are generally considered aggravated by exposure to this product.

Example MSDS for Quick Lime. Note that the actual material may vary.

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(as Used on Label and List)*: **QUICKLIME**

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name
CHENEY LIME & CEMENT COMPANY

Address *(Number, Street, City, State and ZIP Code)*
478 GRAYSTONE ROAD
ALLGOOD, ALABAMA 35013

Emergency Telephone Number
205-625-3031

Telephone Number for Information
205-625-3031

Date Prepared

Signature of Preparer *(optional)*

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
CALCIUM OXIDE (EPA#A350-2789)		2 mg/M^3		
CaO				

Section III—Physical/Chemical Characteristics

Boiling Point	2850°C (5162°F)	Specific Gravity (H_2O = 1)	
Vapor Pressure (mm Hg)	NA	Melting Point 2570°C (4658°F)	
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1)	

Solubility in Water: NEGLIGIBLE 0.12% AT 25°C

Appearance and Odor: WHITE LUMPS, PEBBLES OR GRANULES

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	NA	Flammable Limits NA	LEL	UEL

Extinguishing Media: NA

Special Fire Fighting Procedures

IN ITSELF, QUICKLIME IS INCOMBUSTIBLE. IF IT COMES IN CONTACT WITH WATER OR HUMID AIR IT HYDRATES, EVOLVING HEAT. HEAT COULD IGNITE PAPER, WOOD OR RAGS.

Unusual Fire and Explosion Hazards

WATER ON QUICKLIME CAUSES AN EXOTHERMIC REACTION, AS NOTED ABOVE

(Reproduce locally) OSHA 174 Sept. 1985

Section V—Reactivity Data

Stability			Conditions to Avoid
	Unstable	YES	IF IT COMES IN CONTACT WITH WATER, HUMID AIR OR ACID.
	Stable	YES	IF NO MOISTURE OR ACIDS ARE PRESENT.

Incompatibility *(Materials to Avoid)*

SHOULD NOT BE MIXED OR STORED IN CONTACT WITH CHEMICALS THAT ARE MOIST OR HAVE WATER OF HYDRATION.

Hazardous Decomposition or Byproducts

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	

Section VI—Health Hazard Data

Route(s) of Entry — Inhalation? X — Skin? X — Ingestion?

Health Hazards *(Acute and Chronic)*

UNDER HOT HUMID CONDITIONS QUICKLIME CAN CAUSE SKIN BURNS TO A PERSPIRING WORKER OR SKIN IRRITATION. CAN BE IRRITATING IF INHALED, CAUSING SNEEZING.

Carcinogenicity NA — NTP? — IARC Monographs? — OSHA Regulated?

Signs and Symptoms of Exposure REDNESS OF SKIN, SNEEZING

Medical Conditions Generally Aggravated by Exposure NA

Emergency and First Aid Procedures

IN CASE OF BURNS OR SKIN IRRITATION USE BORIC ACID SALVE OR BURN OINTMENT. FOR EYES, FLUSH OUT IMMEDIATELY WITH WATER AND SEE PHYSICIAN.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken In Case Material Is Released or Spilled

CLEAN UP BY NORMAL PHYSICAL METHODS

Waste Disposal Method

SALVAGE FOR USE OR REMOVE TO DUMP. DO NOT PLACE WHERE HEAT OF HYDRATION BY CONTACT WITH WATER COULD IGNITE ADJACENT MATERIALS SUCH AS WOOD OR PAPER.

Precautions to Be Taken in Handling and Storing

DO NOT STORE NEAR ACIDS OR CHEMICALS WHICH ARE MOIST OR CONTAIN WATER OF HYDRATION. STORE IN A DRY AREA.

Other Precautions

Section VII—Control Measures

Respiratory Protection *(Specify Type)* PROTECTIVE DUST MASK.

Ventilation				
	Local Exhaust		Special	NA
	Mechanical *(General)*	ADEQUATE TO KEEP DUST CONC. BELOW TLV.	Other	VENT DUST TO A COLLECTOR.

Protective Gloves	Eye Protection
NORMAL WORKING GLOVES.	TIGHT FITTING SAFETY GOGGLES.

Other Protective Clothing or Equipment LONG SLEEVED SHIRT WITH BUTTONED COLLAR. LONG PANTS EXTENDING OVER WORK SHOES. PROTECTIVE CREAM MAY BE USED ON EXPOSED SKIN IF NEEDED.

Work/Hygienic Practices QUICKLIME OR HYDRATED LIME DUST SHOULD BE WASHED FROM SKIN & HAIR.

4

Gasoline and Oil at PSGC

PSGC may use a range of gasoline, diesel and oils in its storage vessels. The MSDS for the majority of oils contains the following statement (or equivalent) following 2(B) in Section 2 of this form: "NO REPORTABLE HAZARDOUS SUBSTANCE(S) OR COMPLEX SUBSTANCE(S). CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES". The HAP information for the worst case oil (Gasoline) contains the following speciation data:

Gasoline Speciation Data	Weight % Vapor	Weight % Liquid
Benzene	0.4%	1.0%
Ethyl Benzene	0.1%	1.6%
Hexane, Isomers of	1.4%	1.8%
Toluene	1.1%	8.0%
Xylene, Isomers of	0.4%	2.4%
2,2,4-Trimethylpentane	0.7%	0.8%

HAP Speciation obtained from Table 4 of "Developing a Consistent Methodology to Calculate VOC and HAP Evaporative Emissions for Stage I and Stage II Operation at Gasoline Service Stations for the 1999 NEI (Draft v2.0). Prepared by Pacific Environmental Services, Inc

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

FUGITIVE EMISSIONS DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

THIS FORM MAY BE COMPLETED FOR FUGITIVE EMISSION ACTIVITIES RATHER THAN COMPLETING AN EMISSION UNIT OR STAND ALONE FORM. FUGITIVE EMISSIONS ARE DEFINED AS THOSE EMISSIONS WHICH COULD NOT REASONABLY PASS THROUGH A STACK, CHIMNEY, VENT OR OTHER FUNCTIONALLY EQUIVALENT OPENING. NOTE THAT UNCAPTURED PROCESS EMISSION UNIT EMISSIONS ARE TYPICALLY NOT CONSIDERED FUGITIVE AND MUST BE ACCOUNTED FOR ON THE APPROPRIATE EMISSION UNIT OR STAND ALONE FORM. ANY EMISSIONS AT THE SOURCE NOT PREVIOUSLY ACCOUNTED FOR ON AN EMISSION UNIT OR STAND ALONE FORM MUST BE ACCOUNTED FOR ON THIS FORM.

SOME EXAMPLES OF EMISSIONS WHICH ARE TYPICALLY CONSIDERED FUGITIVE ARE:

- ROAD DUST EMISSIONS (PAVED ROADS, UNPAVED ROADS, AND LOTS)
- STORAGE PILE EMISSIONS (WIND EROSION, VEHICLE DUMP AND LOAD)
- LOADING/UNLOADING OPERATION EMISSION
- EMISSIONS FROM MATERIAL BEING TRANSPORTED IN A VEHICLE
- EMISSIONS OCCURRING FROM THE UNLOADING AND TRANSPORTING OF MATERIALS COLLECTED BY POLLUTION CONTROL EQUIPMENT
- EQUIPMENT LEAKS (E.G., LEAKS FROM PUMPS, COMPRESSORS, IN-LINE PROCESS VALVES, PRESSURE RELIEF DEVICES, OPEN-ENDED VALVES, SAMPLING CONNECTIONS, FLANGES, AGITATORS, COOLING TOWERS, ETC.)
- GENERAL CLEAN-UP VOM EMISSIONS

NOTE THAT TOTAL EMISSIONS FROM THE SOURCE (TS) ARE EQUAL TO SOURCE-WIDE TOTAL EMISSION UNIT EMISSIONS (PT) PLUS TOTAL FUGITIVE EMISSIONS (FT), E.G., TS = PT + FT.

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 3/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

APPLICATION PAGE 168

GENERAL INFORMATION

4) PROVIDE THE FOLLOWING INFORMATION FOR THE FUGITIVE EMISSION POINTS AT THE SOURCE INCLUDED IN THIS APPLICATION. SIMILAR POINTS MAY BE GROUPED TOGETHER.

NOTE: ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, FROM WHICH THE ABOVE EMISSIONS, WERE BASED AND LABEL AS EXHIBIT 391-1. IF THE ABOVE SPACE WAS NOT ADEQUATE, LIST ALL OTHER FUGITIVE POINTS AND INCLUDE THE REQUIRED INFORMATION ON THIS ATTACHMENT.

FOR PAVED AND UNPAVED ROADS, INCLUDE ROAD MILES (E.G., 6 MILES OF UNPAVED ROADS); FOR STORAGE PILES, INDICATE THE MATERIAL BEING STORED (E.G., 20 LIMESTONE STORAGE PILES); FOR EQUIPMENT LEAK POINTS, GROUP SIMILAR POINTS TOGETHER (E.G., 15 ORGANIC LIQUID PUMPS); FOR TRANSFER POINTS, IDENTIFY THE ORIGIN AND DESTINATION OF TRANSFER AND THE MATERIAL BEING TRANSFERRED (E.G., 5 BELT TO BIN TRANSFERS OF CORN).

FUGITIVE POINT(S)	REGULATED AIR POLLUTANT(S)	UNCONTROLLED ANNUAL EMISSIONS (TONS/YR)	
		MAXIMUM	TYPICAL
TRUCK(1-16)	PM	Inc. by Reference	Inc. by Reference
Active Coal Pile A (EP40A)	PM	Inc. by Reference	Inc. by Reference
Active Coal Pile B (EP40B)	PM	Inc. by Reference	Inc. by Reference
Long Term Coal Storage Pile (EP40C)	PM	Inc. by Reference	Inc. by Reference
Covered Limestone Pile (EP58P)	PM	Inc. by Reference	Inc. by Reference
Limestone Inactive Storage Pile (EP62)	PM	Inc. by Reference	Inc. by Reference
Mine Coal Storage Pile A (EP103A)	PM	Inc. by Reference	Inc. by Reference
Mine Coal Storage Pile B (EP103B)	PM	Inc. by Reference	Inc. by Reference
Mine Coal Storage Pile C (EP103C)	PM	Inc. by Reference	Inc. by Reference
Coal Surge Pile	PM	Inc. by Reference	Inc. by Reference
Bulldozers	PM	Inc. by Reference	Inc. by Reference
Frontloaders	PM	Inc. by Reference	Inc. by Reference

5) ATTACH A DIAGRAM OF THE SOURCE THAT INDICATES THE LOCATION OF ALL FUGITIVE EMISSION POINTS. A SKETCH DRAWING WITH THE PROPER NOTATIONS IS SUFFICIENT. ALTERNATIVELY, THE REQUIRED INFORMATION MAY BE PLACED ON A COPY OF AN EXISTING PLAN OR MAP SUBMITTED WITH THIS APPLICATION (E.G., PLOT PLAN/MAP). ALSO INDICATE ON THIS DIAGRAM THE LOCATION OF ANY AMBIENT AIR MONITORING STATIONS. LABEL THIS DIAGRAM 391-2. NOTE: EQUIPMENT LEAK FUGITIVE EMISSION POINTS NEED NOT BE SHOWN ON THIS DIAGRAM.

APPLICABLE RULES

6) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATIONS(S) WHICH ARE APPLICABLE TO FUGITIVE EMISSIONS AT THE SOURCE (E.G., ROAD SEGMENT F, PM-10, IAC 212.316(d), OPACITY < OR = 10% AT 4 FT):

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
TRUCK	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Coal Piles	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Limestone Piles	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Bulldozers	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Frontloaders	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.

7) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

APPLICABLE RULES (CON'T)

8) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

9) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

10) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

COMPLIANCE INFORMATION

11) IS EACH FUGITIVE POINT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

12) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

13) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

14a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	FUGITIVE POINT	METHOD OF MEASUREMENT	FREQUENCY
Amount received and shipped	TRUCK	Material Receipts	Monthly
PM	TRUCK, Coal Piles, Limestone Piles, Bulldozers, Frontloaders	Calculated Emissions	Quarterly
Application of Control	TRUCK, Coal Piles, Limestone Piles, Bulldozers, Frontloaders	Operating Logs	Quarterly

b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Amount received and shipped	Hardcopy and/or Electronically	Sr. Environmental Specialist	Sr. Environmental Specialist
PM	Hardcopy and/or Electronically	Sr. Environmental Specialist	Sr. Environmental Specialist
Application of Control	Hardcopy and/or Electronically	Sr. Environmental Specialist	Sr. Environmental Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

15a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR AND/OR MONITORING PROCEDURES:

N/A

d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THAT FUGITIVE EMISSIONS MAY OCCUR? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

16) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 391-4:

FUGITIVE POINT(S)	TEST DATE	TEST METHOD	TESTING FIRM	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A					

17) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

FUGITIVE POINT(S)	REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A			

FUGITIVE DUST (complete if applicable)

18a) ARE OPACITY READINGS REQUIRED TO BE TAKEN? ☐ YES ☒ NO

IF YES, SPECIFY THE RELEVANT FUGITIVE POINT(S):

i) _____

ii) _____

iii) _____

b) SPECIFY THE FREQUENCY OF OPACITY READINGS:

N/A

c) IS USEPA METHOD 9 USED TO READ ALL VISIBLE EMISSIONS? ☐ YES ☐ NO

IF NO, EXPLAIN AND SPECIFY THE METHOD USED:

N/A

19) IS AN OPERATING PROGRAM FOR FUGITIVE PARTICULATE MATTER AND/OR PM10 CONTROL REQUIRED PURSUANT TO 35 ILL. ADM. CODE 212.309? ☐ YES ☒ NO

IF YES, HAS SUCH A PROGRAM PREVIOUSLY BEEN SUBMITTED TO THE AGENCY? ☐ YES ☐ NO

IF SUCH A PROGRAM HAS NOT BEEN SUBMITTED, IT SHOULD BE ATTACHED TO THIS FORM UPON SUBMITTAL AND LABELED AS 391-5.

20) IS THE SOURCE IN COMPLIANCE WITH 35 ILL. ADM. CODE 212.301 WHICH STATES THAT NO EMISSIONS SHALL BE VISIBLE BEYOND THE PROPERTY LINE OF THE SOURCE? ☒ YES ☐ NO

IF NO, EXPLAIN:

FUGITIVE VOM FROM EQUIPMENT LEAKS (complete if applicable)

21) INDICATE WHICH OF THE FOLLOWING METHODS WAS USED TO ESTIMATE FUGITIVE EMISSIONS OF VOM FROM EQUIPMENT LEAKS:

☐ AVERAGE EMISSION FACTOR ☐ LEAK/NO LEAK EMISSION FACTOR ☐ STRATIFIED EMISSION FACTOR ☐ LEAK RATE/SCREENING VALUE CORRELATION

☐ OTHER; (SPECIFY):

_____

ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE BEEN PERFORMED. THIS REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391-6.

22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT LEAKS? ☐ YES ☐ NO

IF YES, PROVIDE A DESCRIPTION OF SUCH PROGRAM OR ATTACH THE INSPECTION PROGRAM TO THIS FORM AND LABEL AS 391-7:

FUGITIVE VOM FROM CLEANUP OPERATIONS (complete if applicable)

23) COMPLETE THE FOLLOWING FOR EACH VOM CONTAINING MATERIAL USED FOR CLEANUP FOR WHICH THE EMISSIONS ARE FUGITIVE AND HAVE NOT BEEN ACCOUNTED FOR ELSEWHERE IN THIS APPLICATION:

	GENERIC NAME OF CLEANUP MATERIAL	DENSITY (LB/GAL)	VOM CONTENT (WEIGHT %)	ANNUAL USAGE (GAL/YEAR) MAX	ANNUAL USAGE (GAL/YEAR) TYPICAL
a)					
b)					
c)					

24) EXPLAIN THE MEANS BY WHICH THESE MATERIALS ARE USED AND WHAT EQUIPMENT OR ITEMS ARE BEING CLEANED:

25a) ARE ALL VOM USED IN CLEANUP OPERATIONS CONSIDERED TO BE EMITTED? ☐ YES ☐ NO

IF NO, EXPLAIN:

b) IF APPLICABLE, COMPLETE ITEMS i, ii, AND iii BELOW:

i) PROVIDE THE MAXIMUM AND TYPICAL AMOUNT OF VOM RECLAIMED AND/OR SHIPPED OFF-SITE AND HENCE, NOT EMITTED:

	(GALSYR)	(TONS/YR)
MAX		
TYP		

ii) EXPLAIN THE MEANS BY WHICH VOM IS COLLECTED FOR RECLAMATION AND/OR DISPOSAL:

iii) EXPLAIN THE MEANS BY WHICH THE AMOUNT OF VOM COLLECTED IS MEASURED OR DETERMINED:

FUGITIVE CONTROL

26) COMPLETE THE FOLLOWING, INCLUDING THE MINIMUM AND TYPICAL REDUCTION EFFICIENCY FOR EACH CONTROL MEASURE UTILIZED:

	CONTROL MEASURES	REGULATED AIR POLLUTANT	FUGITIVE POINT(S) CONTROLLED	REDUCTION EFF.(%) MIN	REDUCTION EFF.(%) TYP	FREQUENCY OF CONTROL APPLICATION
a)	Treatment of Paved Roads	PM	TRUCK(1-16)	90%	90%	As Needed
b)	Treatment of Unpaved Roads	PM	TRUCK(1-16)	80%	80%	As Needed
c)	Moisture Control	PM	Coal Piles	90%	90%	Daily*
d)	Moisture Control	PM	Limestone Inactive Storage Pile	99%	99%	Daily
e)	Covered	PM	Covered Limestone Pile	100%	100%	Continuous

NOTE: IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-8.

27) PROVIDE A DESCRIPTION OF EACH OF THE CONTROL MEASURES INDICATED IN ITEM 32. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-9.

	CONTROL MEASURE(S)	DESCRIPTION
a)	Treatment of Paved Roads	Regularly travelled roads shall be paved once construction is complete as described by the PSD Permit. Flushing, vacuuming, dust suppressant application, etc. shall be applied to all paved roads as needed to maintain 90 percent control of all paved roads on-site.
b)	Treatment of Unpaved Roads	Flushing, vacuuming, dust suppressant application, etc. shall be applied to all unpaved roads as needed to maintain 80 percent control of all unpaved roads on-site.

*Note: The inactive coal pile (EP40C) will have a chemical crusting agent applied instead of water. This will be applied when needed rather than daily.

27) **(CONTINUED)** PROVIDE A DESCRIPTION OF EACH OF THE CONTROL MEASURES INDICATED IN ITEM 26. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-9.

	CONTROL MEASURE(S)	DESCRIPTION
c)	Moisture Control (Water)	Sufficient moisture is applied to material storage (coal and limestone piles) to decrease fugitive emissions due to wind erosion and due to maintenance activities performed on the piles.
	Moisture Control (Chemical Agent)	The inactive coal pile will have a chemical crusting agent applied to decrease fugitive emissions due to wind erosion and due to maintenance activities performed on the pile.
d)	Covered	The active limestone pile is completely enclosed by a dome which eliminates emissions.
e)		
f)		
g)		
h)		

State of Illinois
Environmental Protection Agency
Division of Air Pollution Control
1021 North Grand Avenue East
Springfield, IL 62794-9276

DCEO

RECEIVED
MAY 05 2011
Illinois Environmental Protection Agency

AIR POLLUTION EPISODE ACTION PLAN

NAME OF FACILITY	DATE:
Prairie State Generating Station	05/02/2011

LOCATION OF FACILITY – STREET:	CITY OR TOWNSHIP:	COUNTY:
1739 New Marigold Rd.	Marissa	Washington

MAILING ADDRESS – STREET OR BOX NO.:	CITY:	STATE AND ZIP:
same	Marissa	IL 62257

	PERSON TO BE NOTIFIED DURING EPISODE:	TITLE:	OFFICE PHONE:	HOME PHONE:
1.	Keith Bastian	Senior VP of Operations	6188247720	6189710331
2.	Peter DeQuattro	President and CEO	6188247629	6189795035
3	Craig Bressan	Director of EHS	6188247655	6186044511

FACILITY OPERATIONS: Describe operations or products manufactured.
Electric power generating station

DESCRIPTION OF OPERATIONS AND/OR EMISSION SOURCES FOR WHICH AN ACTION PLAN IS REQUIRED:

Electricity is generated from two coal-fired boilers, Units #1 and #2. The boilers are rated individually at 7, 450 million Btu/hour design heat input. The facility is a mine-mouth power plant that burns coal mined at the source. The sulfur content of coal mined at the facility is nominally four (4) percent. The PSD permit for the facility dictates the only coal that may be burned in the boilers is coal mined at the facility, except during unforseen, extended interruptions in mine coal supply. Units #1 and #2 may be fired with natural gas during startup. Use of natural gas in the boilers is limited to unit startup conditions by the PSD permit.

An auxiliary boiler is utilized to supply low-pressure steam on startup of Units #1 and #2. The auxiliary boiler is fired with natural gas and is rated at 245 million Btu/hour design heat input. Its operation is limited by permit to 500 hours per year after the initial shakedown of Units #1 and #2.

The above-mentioned emission units constitute the most significant emission sources at the facility.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1010 Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 and an additional civil penalty up to $1,000.00 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

REMARKS:

PERSON TO BE CONTACTED FOR FURTHER INFORMATION REGARDING THIS PLAN: Allison Lauf (Name) 6188247690 (Phone)

SIGNATURE: The undersigned hereby submits its episode action plan in accordance with 35 Ill. Adm. Code 244.141 amended April 19, 1976 and certifies that the statements contained herein are true and correct. This plan indicates emission reduction actions which will be taken in the event of an air pollution episode.

OWNER OF FACILITY		OPERATOR OF FACILITY (If other than owner)	
Name (printed)	Peter DeQuattro	Name (printed)	
Signature		Signature	
Title	President and CEO	Title	

NAME OF FACILITY

EPISODE ACTION PROGRAM

THE ACTIONS LISTED BELOW WILL BE TAKEN WHENEVER EPISODE STAGES AND POLLUTANTS OCCUR IN THE COMBINATIONS INDICATED. (DURING PRODUCT EPISODES BOTH S AND P ACTIONS WILL BE TAKEN.)

STAGE	POLLUTANTS	ACTIONS REQUIRED OF ALL FACILITIES
YRE	O	NO REFUSE BURNING CONDUCTED.
Y	CNP	NO REFUSE BURNING CONDUCTED OTHER THAN IN INCINERATORS MEETING ILLINOIS EMISSION STANDARDS (FOR APPLICABLE POLLUTANT) AND DURING HOURS OF NOON TO 4 PM (OR OTHER HOURS AS ANNOUNCED BY ILLINOIS EPA).
RE	O	NO BUILDINGS HEATED TO MORE THAN 65°F OR AIR CONDITIONED TO LESS THAN 80°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FLEET VEHICLES DISPATCHED AFTER DECLARATION OF ALERT AND NONE OPERATED ON SECOND AND SUBSEQUENT DAYS OF ALERT. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED FOR DECORATIVE OR ADVERTISING PURPOSES. NO GASOLINE OR OTHER VOLATILE ORGANIC MATERIAL IN EXCESS OF 250 GALLONS LOADED OR RECEIVED.
RE	CNP	NO REFUSE BURNING CONDUCTED.
E	NSP	NO BUILDINGS HEATED TO MORE THAN 65°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED UNNECESSARILY SUCH AS FOR DECORATIVE, AMUSEMENT OR ADVERTISING PURPOSES.
E	OCNSP	NO MOTOR VEHICLES OPERATED OR MANUFACTURING CONDUCTED. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FACILITY OR ACTIVITY LISTED IN EMERGENCY SECTION OF EPISODE REGULATIONS OPERATED.

STAGE	POLLUTANTS	DETAILED DESCRIPTION OF ADDITIONAL ACTIONS REQUIRED OF THIS FACILITY
Y	CNSP	Yellow Alert - PSGC is obligated by its PSD permit to control emissions to levels established by Best Available Control Technology. These post-combustion controls are more restrictive than emission levels that would be achieved using fossil fuels with less than 1.0% sulfur and low ash content. Additionally, alternative fuels are not available to the facility because the PSD permit specifies only mine-mouth coal may be burned in Units #1 and #2. The PSD permit requirements conflict with 35 IAC 244, Appendix D in this matter. Since PSGC is an independent power producer and owns no other generating stations, it cannot divert power generation to facilities outside the Alert area. Soot blowing and boiler lancing, where essential, will be limited to periods of maximum atmospheric turbulence.
R	CNSP	Red Alert - PSGC will take all Yellow Alert actions.
E	CNSP	Emergency Alert - PSGC will take all Yellow Alert actions. The facility coal mine will discontinue operations for the duration of the alert.
Y	O	Yellow Alert - PSGC is obligated by PSD permit to reduce emissions to levels established using Best Available Control Technology. Adhering to the PSD permit will reduce emissions to the greatest extent practicable.
R	O	Red Alert - PSGC will take all Yellow Alert actions. Since the company is an independent power producer and does not own/operate electric distribution systems, it has no "economy sales" or "interruptable customers". PSGC does not purchase power from other producers.
E	O	Emergency Alert - PSGC will take all Yellow Alert Actions. The facility coal mine will discontinue operations for the duration of the alert. As an independent power producer, PSGC does not operate distribution systems that can reduce voltage by 2.5% system-wide. Similarly, the company cannot purchase power or request customers to reduce electric demand.

ABBREVIATIONS USED: EPISODE STAGES Y = YELLOW ALERT, R = RED ALERT, S = EMERGENCY
POLLUTANTS O = OZONE, C = CARBON MONOXIDE, N = NITROGEN DIOXIDE, S = SULFUR DIOXIDE, P = PARTICULATE MATTER

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:	
Prairie State Generating Station	
2) DATE FORM PREPARED: 03/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT: Unit 1	
5) NAME OF PROCESS: Steam Generation	
6) DESCRIPTION OF PROCESS: Production of steam for powering steam electrical generating turbines	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Electrical Power Generation	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU10A	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Babcock & Wilcox	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 181

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for natural gas when the unit is first fired. See the additional Form 240-CAAPPs for normal coal-fired operations and for switchover operations when coal and natural gas are fired simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

<7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During stages of startup, the unit will fire on natural gas and coal.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	768			
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	320			
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	320		1,712	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:
☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:
☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):
1000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 89 MM	SCF/YEAR: 1072 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: 45 MM	SCF/YEAR: 540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):
N/A
☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6
☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:
☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:
☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY):

N/A

☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☐ BITUMINOUS COAL

☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH):	g) IS THE COAL CLEANED? ☐ YES ☐ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):

i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:

k) FIRING TYPE (CHECK ONE):

☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:

☐ CYCLONE ☐ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM

☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY: _____

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2

OTHER FUEL FIRING

25a) OTHER FUEL FIRING

N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emission Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_X, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumetric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:								
Benzene	*71432*	MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
		TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 1

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10A

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
N/A	N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for normal coal operations. See the additional Form 240-CAAPPs for natural gas-fired startup and switchover when natural gas and coal are used simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

The unit is capable of co-firing coal and natural gas.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)			7,450	
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)			7,450	
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)			N/A	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

N/A

☐ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY: _____

b) TYPICAL HEAT CONTENT (BTU/SCF):

c) MAXIMUM CONSUMPTION	SCF/MONTH:	SCF/YEAR:
d) TYPICAL CONSUMPTION	SCF/MONTH:	SCF/YEAR:

OIL FIRING

23a) OIL TYPE (CHECK ONE):

N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER): _____

b) TYPICAL HEAT CONTENT: _____

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY):
☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL
☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH): 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):
☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:
☐ CYCLONE ☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM
☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emission Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_x, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 1

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10A

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):
N/A

11) SERIAL NUMBER (IF KNOWN):
N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for switchover operations. See the additional Form 240-CAAPPs for natural gas-fired startup and normal coal operations.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During switchovers, coal and natural gas are co-fired.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)				
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)				
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	<7,450		<7,450	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

N/A

☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):

1,000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 89 MM	SCF/YEAR: 1,072 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: 45 MM	SCF/YEAR: 540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):

N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): ☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL ☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH): 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):
- ☐ TRAVELING GRATE
- ☐ SPREADER STOKER % REINJECTION:
- ☐ CYCLONE
- ☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM / (DRY BOTTOM)
- ☐ HORIZONTALLY OPPOSED
- ☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emissions Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_x, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous
			Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Low NOx Burners

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10A-1

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Babcock & Wilcox

7) MODEL NUMBER (IF KNOWN):
HV-4Z

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

The burners combust the pulverized coal at a lower temperature inhibiting NOx formation.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	N/A						
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: N/A	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL						
		MAXIMUM						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT NOx CONTROL (260I)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

NOTE: A COMBUSTION MODIFICATION SUCH AS ADDING A LOW NOx BURNER REQUIRES A SEPARATE ATTACHMENT DESCRIBING THE TYPE OF MODIFICATION AND SUBMITTAL OF THE MANUFACTURER'S SPECIFICATIONS AND GUARANTEES.

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10A-1

2) TYPE OF CONTROL:

- ☐ SELECTIVE CATALYTIC REDUCTION
- ☐ NON-SELECTIVE CATALYTIC REDUCTION
- ☐ SELECTIVE NON-CATALYTIC REDUCTION
- ☒ LOW NOx BURNERS
- ☐ WATER INJECTION IN BURNER
- ☐ STEAM INJECTION IN BURNER
- ☐ FLUE GAS RECIRCULATION
- ☐ CO-FIRING
- ☐ OVERFIRE AIR
- ☐ LOW ACCESS AIR
- ☐ BIAS FIRING
- ☐ OTHER, DESCRIBE: _____

3) FOR REDUCTION DEVICES:

TEMPERATURE AT WHICH REDUCTION OCCURS (DEGREES FAHRENHEIT):

REDUCING AGENT:

REDUCING AGENT USE RATE:

DESCRIPTION OF INJECTION SYSTEM:

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 224

4) FOR CATALYTIC DEVICES:

TYPE OF CATALYST USED:

EXPECTED FREQUENCY OF REPLACEMENT:

5) DESCRIBE NOx CONTROL UTILIZED:

Low NOx burners are used on Boiler 1 with an estimated NOx rate of 0.460 lb/MMBtu.

6) NOx CONTROL PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
REDUCING AGENT INPUT RATE (LB/HR):	N/A	N/A
WATER OR STEAM INPUT RATE (LB/HR):	N/A	N/A
FLUE GAS RECIRCULATIONS:	N/A	N/A
EFFICIENCY (NOx REDUCTION):	N/A	N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Selective Catalytic Reduction (SCR)

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10A-2

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Cormetech

7) MODEL NUMBER (IF KNOWN):
N/A

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/ 2007

b) OPERATION (MONTH/YEAR):
07/ 2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NO_X Burners	EC10A-1

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Reagent Inection Rate	Lb/hr	Mass Flow Meter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Reagent Injection Rate	Electronic or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Reagent injection rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

Upstream of the injection nozzle in the ammonia vapor line

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☒ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Review of accuracy of monitors has not been completed as the unit has not commenced operation yet.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

The flue gas is ducted directly to the SCR capturing 100% of the emissions from Boiler 1.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	NO_X	100	100	87	87	87	87
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

	EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE:	Manufacturer's Specification	N/A
CONTROL:	Manufacturer's Specification	N/A
OVERALL:	Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
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[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT). NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT NOx CONTROL (260I)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

NOTE: A COMBUSTION MODIFICATION SUCH AS ADDING A LOW NOx BURNER REQUIRES A SEPARATE ATTACHMENT DESCRIBING THE TYPE OF MODIFICATION AND SUBMITTAL OF THE MANUFACTURER'S SPECIFICATIONS AND GUARANTEES

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10A-2

2) TYPE OF CONTROL:

- ☒ SELECTIVE CATALYTIC REDUCTION
- ☐ NON-SELECTIVE CATALYTIC REDUCTION
- ☐ SELECTIVE NON-CATALYTIC REDUCTION
- ☐ LOW NOx BURNERS
- ☐ WATER INJECTION IN BURNER
- ☐ STEAM INJECTION IN BURNER
- ☐ FLUE GAS RECIRCULATION
- ☐ CO-FIRING
- ☐ OVERFIRE AIR
- ☐ LOW ACCESS AIR
- ☐ BIAS FIRING
- ☐ OTHER, DESCRIBE: _____

3) FOR REDUCTION DEVICES:

TEMPERATURE AT WHICH REDUCTION OCCURS (DEGREES FAHRENHEIT): 620 to 725 °F

REDUCING AGENT: Anhydrous Ammonia

REDUCING AGENT USE RATE: <1,250 lb/hr

DESCRIPTION OF INJECTION SYSTEM: The SCR is designed to remove NO_X pollutants from the flue gas stream exiting the furnace by the injection of anhydrous ammonia through an injection grid located in the gas path. The NO_X reduction takes place as the gases pass through the catalyst chamber. Before entering the catalyst chamber the ammonia is injected and mixed with the gases.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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_____

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4) FOR CATALYTIC DEVICES:

TYPE OF CATALYST USED: Titanium-Tungsten-Vanadium

EXPECTED FREQUENCY OF REPLACEMENT: 22,000 hrs (Expected)

5) DESCRIBE NOx CONTROL UTILIZED:

The SCR is designed to remove NO_X pollutants from the flue gas stream exiting the furnace by the injection of anhydrous ammonia through an injection grid located in the gas path. The NO_X reduction takes place as the gases pass through the catalyst chamber. Before entering the catalyst chamber the ammonia is injected and mixed with the gases.

6) NOx CONTROL PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	800	725
INLET GAS FLOW RATE (SCFM):	2,882,100	2,765,510
REDUCING AGENT INPUT RATE (LB/HR):	1,250	1,170
WATER OR STEAM INPUT RATE (LB/HR):	N/A	N/A
FLUE GAS RECIRCULATIONS:	0	0
EFFICIENCY (NOx REDUCTION):	87%	87%

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Hydrated Lime Injection

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10A-3

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Delta Ducon

7) MODEL NUMBER (IF KNOWN):
N/A

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NO_X Burners	EC10A-1
Selective Catalytic Reduction Unit	EC10A-2

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

Hydrated lime injection will be used on an as-needed basis.

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

The hydration lime injection equipment will only be used as needed.

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3: N/A

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	SO_3 and Acid Gases	TBD	TBD	TBD	TBD	TBD	TBD
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: N/A	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	SO_3 and Acid Gases	TBD	TBD	TBD	Case-by-Case MACT
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)

FOR AGENCY USE ONLY
ID NUMBER
CONTROL EQUIPMENT #
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10A-3

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:

Hydrated Lime Injection

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:

Hydrated Lime (HL) is pneumatically injected into the flue gas ductwork upstream of the particulate collection device (Dry ESP) on an as needed basis. There the HL mixes with the flue gas reacting with sulfur dioxides to form synthetic gypsum. The synthetic gypsum particles, along with excess HL particles, are then captured in the Dry ESP.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	N/A (%)	N/A (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT? ☒ YES ☐ NO

b) ARE PARTICULATES PRESENT? ☒ YES ☐ NO

c) ARE METALS PRESENT? ☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT SO_3 and Acid Gases):	As Needed (%)	As Needed (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	N/A (%)	N/A (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Powder Activated Carbon (PAC) Injection

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10A-4

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Delta Ducon

7) MODEL NUMBER (IF KNOWN):
N/A

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039 5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NOX Burners	EC10A-1
Selective Catalytic Reduction Units	EC10A-2
HL Injection	EC10A-3

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

Powder activated carbon injection will be used on an as-needed basis

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

The powder activated carbon injection equipment will only be used as needed.

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Within two (2) years after initial startup of boiler, report on effectiveness of the system	Study on Sorbent Injection Rate	One-time Report

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	Hg	N/A	N/A	90	TBD	90	TBD
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: Emissions testing and CEMS monitoring	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	Hg	N/A	90	90	35 IAC 225 Subpart B
iii					

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS). 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)	***FOR AGENCY USE ONLY***
	ID NUMBER:
	CONTROL EQUIPMENT #
	DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10A-4

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:

Powder Activated Carbon Injection

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:

Powdered activated carbon (PAC) is pneumatically injected into the flue gas ductwork upstream of the particulate collection device (Dry ESP) on an as needed basis. There the PAC mixes with the flue gas and the vaporited mercury is adsorbed on the surface of the PAC particles. The PAC particles, with mercury, are then captured in the Dry ESP.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	N/A (%)	N/A (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT? ☒ YES ☐ NO

b) ARE PARTICULATES PRESENT? ☒ YES ☐ NO

c) ARE METALS PRESENT? ☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT Hg):	90 (%)	90 (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	N/A (%)	N/A (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dry Electrostatic Precpitation

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10A-5

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Wheelabrator Air Pollution Control Inc.

7) MODEL NUMBER (IF KNOWN):
80/50/4x8/16/1-HaRDE

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NO_X Burners	EC10A-1
Selective Catalytic Reduction Unit	EC10A-2
HL and PAC Injection	EC10A-3 and EC10A-4

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Voltage	Volts	Voltmeter	Continuous
Current	Amps	Ammeter	Continuous
Sparking Rate	Sparks/min	Spark meter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Voltage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Current	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Sparking Rate	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Voltage, current, and sparking rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

All are located in the ESP's electrical system.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Flue gas is ducted from the SCR to the Dry ESP units without opening, capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	99.7	99.7	99.7	99.7
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacuter's Specification	N/A
CONTROL: Manufacuter's Specification	N/A
OVERALL: Manufacuter's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i					
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT ELECTROSTATIC PRECIPITATOR (260F)

FOR AGENCY USE ONLY
ID NUMBER
CONTROL EQUIPMENT #
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF PRECIPITATOR
EC10A-5

2) NUMBER OF SECTIONS	3) NUMBER OF FIELDS
2	4
4) COLLECTION PLATE AREA (FT^2)	5) SPECIFIC COLLECTOR AREA (TOTAL COLLECTING SURFACE SQ. FT./GAS FLOW RATE ACFM X 10 EXP-3)
859,333	298

6) IS PRIMARY VOLTAGE RECORDED?
☒ YES ☐ NO

IF YES, AT WHAT TIME INTERVAL?
Continuously

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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7) IS CURRENT RECORDED?

☒ YES ☐ NO

8) IS ANY GAS CONDITIONING PERFORMED?

☐ YES ☒ NO

IF YES, DESCRIBE:

9a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Not Established (%)	Not Established (%)
PARTICULATE CONTENT (GRAINS/SCF):	13.6	13.1

b) ESTIMATE OF MEAN PARTICLE DIAMETER (MICRONS):

80% < 40 micron, 50% <10 micron, 10% at <2 micron

10) ELECTROSTATIC PRECIPITATOR OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	1,916,560	1,855,387
INLET GAS TEMPERATURE (DEGREES F°):	334	327
EFFICIENCY (PM REDUCTION):	99.7 (%)	99.7 (%)
EFFICIENCY (PM10 REDUCTION):	99.7 (%)	99.7 (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 3/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: Wet Limestone Flue Gas Desulfurization (WFGDs)	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: EC10A-6	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): Wheelabrator Air Pollution Control Inc.	
7) MODEL NUMBER (IF KNOWN): N/A	8) SERIAL NUMBER (IF KNOWN): N/A
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/ 2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NO_x Burners	EC10A-1
Selective Catalytic Reduction Units	EC10A-2
HL and PAC Injection	EC10A-3 and EC10A-4
Dry Electrostatic Precipitators	EC10A-5

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Reagent Usage Rate	gpm	Flowmeter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Reagent Usage Rate	Electronic and/or hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Reagent Usage Rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

Monitor is in the reagent line upstream of use in the WFGD Unit.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

The flue gas is ducted from the Dry ESP directly to the WFGD unit without openings, capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	SO_2	100	100	98	98	98	98
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

	EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE:	Manufacturer's Specification	N/A
CONTROL:	Manufacturer's Specification	N/A
OVERALL:	Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	SO_2	100	98	98	PSD Condition 2.1.2.b.ii.B
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT SCRUBBER (260H)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF SCRUBBER:

EC10A-6

2) TYPE OF SCRUBBER:

Wet Limestone Flue Gas Desulfurization

3) TYPE OF SCRUBBANT USED:

Limestone Slurry

4) IS SCRUBBANT RECYCLED BACK INTO CONTROL SYSTEM?
IF YES, DESCRIBE METHOD BY WHICH SCRUBBANT SATURATION IS AVOIDED AND THE DESIRED CONTROL EFFICIENCY IS MAINTAINED: ☒ YES ☐ NO

Scrubbant is treated through a waste water treatment facility

5) TYPICAL PRESSURE DROP (INCHES H_20):

9.0

6) AFTERBURNER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	334	327
INLET GAS FLOW RATE (SCFM):	1,916,560	1,855,387
SCRUBBANT RATE (GAL/MIN):	1,400	1,400
EFFICIENCY (PM REDUCTION):	N/A	N/A
EFFICIENCY (OTHER; SPECIFY REGULATED AIR POLLUTANT): SO_2	98 (%)	98 (%)

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 3/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: Wet Electrostatic Precpitation	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: EC10A-7	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): Wheelabrator Air Pollution Control, Inc	
7) MODEL NUMBER (IF KNOWN): 144/40/2x7.5/11/2-HIPWESP	8) SERIAL NUMBER (IF KNOWN): N/A
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 1	EU10A
Low NO_X Burners	EC10A-1
Selective Catalytic Reduction Units	EC10A-2
HL and PAC Injection	EC10A-3 and EC10A-4
Dry Electrostatic Precipitators	EC10A-5
Wet Limestone Flue Gas Desulfurization Units	EC10A-6

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Voltage	Volts	Voltmeter	Continuous
Current	Amps	Ammeter	Continuous
Sparking Rate	Sparks/min	Sparkmeter	Continuous
Water Usage	gpm	Flowmeter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Voltage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Current	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Sparking Rate	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Water Usage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Voltage, Current, Sparking Rate, and Water Usage

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

Voltage, Amperage, and Sparking Rate is monitored via the electrical system while water usage will be monitored upstream of the water being used by the Wet ESP.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
PSD Reporting Requirement	PM Optimization Evaluation Report	One Time (within 3 years of boiler startup)

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Flue gas is ducted from the WFGD Unit to the WESP without openings capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	99.2	99.2	99.2	99.2
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

	EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE:	Manufacturer's Specification	N/A
CONTROL:	Manufacturer's Specification	N/A
OVERALL:	Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i					
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	Inc. by Reference					200 (ppm)	35 IAC 216.121		0.12 lb/MMBtu	3,912
	TYPICAL:	Inc. by Reference					200 (ppm)	35 IAC 216.121			
LEAD	MAXIMUM:	Inc. by Reference					( )				0.295
	TYPICAL:	Inc. by Reference					( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	Inc. by Reference					0.20 (lb/MMBtu)	40 CFR 60 Da		0.07 lb/MMBtu	2,282
	TYPICAL:	Inc. by Reference					1.6 (lb/MW-hr)	40 CFR 60 Da			
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da		0.015 lb/MMBtu	1,143
	TYPICAL:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da			
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da		0.035 lb/MMBtu	1,143
	TYPICAL:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da			
SULFUR DIOXIDE (SO2)	MAXIMUM:	Inc. by Reference					1.20 (lb/MMBtu)	35 IAC 214.121		0.182 lb/MMBtu	5,933
	TYPICAL:	Inc. by Reference					1.20 (lb/MMBtu)	35 IAC 214.121			
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	Inc. by Reference					( )			0.004 lb/MMBtu	130
	TYPICAL:	Inc. by Reference					( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
Incorporated by Reference		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

Stack (EP10A)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

700 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

28 ft

	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
38) EXIT GAS FLOW RATE	2,265,013	2,224,294
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 136	b) TYPICAL (°F): 134

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) PC Fired EGU (Unit 1)	EU10A
b) Low NOX Burners	EC10A-1
c) Selective Catalytic Reduction Units	EC10A-2
d) HL Injection	EC10A-3
e) PAC Injection	EC10A-4
f) Dry ESP	EC10A-5
g) WFGD and WESP	EC10A-6 and EC10A-7

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,240.16711	c) UTM HORIZONTAL (KM): 266.71335

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT ELECTROSTATIC PRECIPITATOR (260F)	***FOR AGENCY USE ONLY***
	ID NUMBER
	CONTROL EQUIPMENT #
	DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF PRECIPITATOR
EC10A-7

2) NUMBER OF SECTIONS	3) NUMBER OF FIELDS
1	2
4) COLLECTION PLATE AREA (FT^2)	5) SPECIFIC COLLECTOR AREA (TOTAL COLLECTING SURFACE SQ. FT./GAS FLOW RATE ACFM X 10 EXP-3)
171,720	76

6) IS PRIMARY VOLTAGE RECORDED? ☒ YES ☐ NO

IF YES, AT WHAT TIME INTERVAL?

Continuous

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE

7) IS CURRENT RECORDED?

☒ YES ☐ NO

8) IS ANY GAS CONDITIONING PERFORMED?

☐ YES ☒ NO

IF YES, DESCRIBE:

9a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Not Determined (%)	Not Determined (%)
PARTICULATE CONTENT (GRAINS/SCF):	0.02	0.02

b) ESTIMATE OF MEAN PARTICLE DIAMETER (MICRONS):

<10 microns, 10% at <2 microns

10) ELECTROSTATIC PRECIPITATOR OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	2,006,589	1,977,150
INLET GAS TEMPERATURE (DEGREES F°):	136	134
EFFICIENCY (PM REDUCTION):	99.2 (%)	99.2 (%)
EFFICIENCY (PM10 REDUCTION):	99.2 (%)	99.2 (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION	
4) NAME OF EMISSION UNIT: Unit 2	
5) NAME OF PROCESS: Steam Generation	
6) DESCRIPTION OF PROCESS: Production of steam for powering steam electrical generating turbines	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Electrical Power Generation	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU10B	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Babcock & Wilcox	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 01/2012
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for natural gas when the unit is first fired. See the additional Form 240-CAAPPs for normal coal-fired operations and for switchover operations when coal and natural gas are fired simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

<7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During stages of startup, the unit will fire on natural gas and coal.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	768			
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	320			
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	320		1,712	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):

1000

	SCF/MONTH:	SCF/YEAR:
c) MAXIMUM CONSUMPTION	89 MM	1072 MM
d) TYPICAL CONSUMPTION	45 MM	540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):

N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

	GAL/MONTH:	GAL/YEAR:
f) MAXIMUM CONSUMPTION		
g) TYPICAL CONSUMPTION		

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): ☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☐ BITUMINOUS COAL

N/A

☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH):	g) IS THE COAL CLEANED? ☐ YES ☐ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):

i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:

k) FIRING TYPE (CHECK ONE):

☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:

☐ CYCLONE ☐ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM

☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY: _____

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING

N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emission Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_X, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumetric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4.

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
LEAD	MAXIMUM						( )				
	TYPICAL						( )				
NITROGEN OXIDES (NOx)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
PARTICULATE MATTER (PART)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
44) DISCHARGE HEIGHT ABOVE GRADE (FT):		
45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:	
NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 2

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10B

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):
N/A

11) SERIAL NUMBER (IF KNOWN):
N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for normal coal operations See the additional Form 240-CAAPPs for natural gas-fired startup and switchover when natural gas and coal are used simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

The unit is capable of co-firing coal and natural gas.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)			7,450	
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)			7,450	
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)			N/A	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS: N/A

☐ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:
☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):

c) MAXIMUM CONSUMPTION	SCF/MONTH:	SCF/YEAR:
d) TYPICAL CONSUMPTION	SCF/MONTH:	SCF/YEAR:

OIL FIRING

23a) OIL TYPE (CHECK ONE): N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6
☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:
☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:
☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): ☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL ☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH): 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):
☐ TRAVELING GRATE
☐ SPREADER STOKER % REINJECTION:
☐ CYCLONE
☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM
☐ HORIZONTALLY OPPOSED
☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emission Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_x, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous
			Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT). NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 2

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10B

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
N/A	N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR): 09/2007

b) OPERATION (MONTH/YEAR): 01/2012

c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for switchover operations. See the additional Form 240-CAAPPs for natural gas-fired startup and normal coal operations.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

PAC Injection, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☒ YES ☐ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During switchovers, coal and natural gas are co-fired.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)				
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)				
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	<7,450		<7,450	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS: N/A

☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF): 1,000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 89 MM	SCF/YEAR: 1,072 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: 45 MM	SCF/YEAR: 540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE): N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): ☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL ☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH): 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):
☐ TRAVELING GRATE
☐ SPREADER STOKER % REINJECTION:
☐ CYCLONE
☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM
☐ HORIZONTALLY OPPOSED
☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 214.121, 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 1.2 lb/MMBtu SO_2, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Emission Report
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	COMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_X, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	COMs	Continuous
			Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
COMs Records	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_X, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity COMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_X, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/COMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been reviewed yet as the source has not commenced operation.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

The monitors have not been operated yet as the source has not commenced operation.

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Low NOx Burners

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10B-1

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Babcock & Wilcox

7) MODEL NUMBER (IF KNOWN):
HV-4Z

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2)

The burners combust the pulverized coal at a lower temperature inhibiting NOx formation.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	N/A						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: N/A	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
iii					

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT NOx CONTROL (260I)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

NOTE: A COMBUSTION MODIFICATION SUCH AS ADDING A LOW NOx BURNER REQUIRES A SEPARATE ATTACHMENT DESCRIBING THE TYPE OF MODIFICATION AND SUBMITTAL OF THE MANUFACTURER'S SPECIFICATIONS AND GUARANTEES.

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10B-1

2) TYPE OF CONTROL:

- ☐ SELECTIVE CATALYTIC REDUCTION
- ☐ NON-SELECTIVE CATALYTIC REDUCTION
- ☐ SELECTIVE NON-CATALYTIC REDUCTION
- ☒ LOW NOx BURNERS
- ☐ WATER INJECTION IN BURNER
- ☐ STEAM INJECTION IN BURNER
- ☐ FLUE GAS RECIRCULATION
- ☐ CO-FIRING
- ☐ OVERFIRE AIR
- ☐ LOW ACCESS AIR
- ☐ BIAS FIRING
- ☐ OTHER, DESCRIBE: _____

3) FOR REDUCTION DEVICES:

TEMPERATURE AT WHICH REDUCTION OCCURS (DEGREES FAHRENHEIT):

REDUCING AGENT:

REDUCING AGENT USE RATE:

DESCRIPTION OF INJECTION SYSTEM:

PREVIOUSLY IMAGED

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FOR APPLICANT'S USE

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4) FOR CATALYTIC DEVICES:

TYPE OF CATALYST USED:

EXPECTED FREQUENCY OF REPLACEMENT:

5) DESCRIBE NOx CONTROL UTILIZED:

Low NOx burners are used on Boiler 2 with an estimated NOx rate of 0 460 lb/MMBtu.

6) NOx CONTROL PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
REDUCING AGENT INPUT RATE (LB/HR):	N/A	N/A
WATER OR STEAM INPUT RATE (LB/HR):	N/A	N/A
FLUE GAS RECIRCULATIONS:	N/A	N/A
EFFICIENCY (NOx REDUCTION):	N/A	N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
3/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

Selective Catalytic Reduction (SCR)

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

EC10B-2

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):

Cormetech

7) MODEL NUMBER (IF KNOWN):	8) SERIAL NUMBER (IF KNOWN):
N/A	N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	
	a) CONSTRUCTION (MONTH/YEAR): 09/ 2007
	b) OPERATION (MONTH/YEAR): 01/ 2012
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

N/A

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FOR APPLICANT'S USE
_____

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NO_X Burners	EC10B-1

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Reagent Inection Rate	Lb/hr	Mass Flow Meter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Reagent Injection Rate	Electronic or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Reagent injection rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E G., EXIT OF COMBUSTION CHAMBER):

Upstream of the injection nozzle in the ammonia vapor line

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☒ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Review of accuracy of monitors has not been completed as the unit has not commenced operation yet.

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

The flue gas is ducted directly to the SCR capturing 100% of the emissions from Boiler 1.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3:

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	NO_X	100	100	87	87	87	87
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	N/A
CONTROL: Manufacturer's Specification	N/A
OVERALL: Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT NOx CONTROL (260I)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

NOTE: A COMBUSTION MODIFICATION SUCH AS ADDING A LOW NOx BURNER REQUIRES A SEPARATE ATTACHMENT DESCRIBING THE TYPE OF MODIFICATION AND SUBMITTAL OF THE MANUFACTURER'S SPECIFICATIONS AND GUARANTEES

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10B-2

2) TYPE OF CONTROL:

- [x] SELECTIVE CATALYTIC REDUCTION
- [ ] NON-SELECTIVE CATALYTIC REDUCTION
- [ ] SELECTIVE NON-CATALYTIC REDUCTION
- [ ] LOW NOx BURNERS
- [ ] WATER INJECTION IN BURNER
- [ ] STEAM INJECTION IN BURNER
- [ ] FLUE GAS RECIRCULATION
- [ ] CO-FIRING
- [ ] OVERFIRE AIR
- [ ] LOW ACCESS AIR
- [ ] BIAS FIRING
- [ ] OTHER, DESCRIBE: _____

3) FOR REDUCTION DEVICES:

TEMPERATURE AT WHICH REDUCTION OCCURS (DEGREES FAHRENHEIT): 620 to 725 °F

REDUCING AGENT: Anhydrous Ammonia

REDUCING AGENT USE RATE: <1,250 lb/hr

DESCRIPTION OF INJECTION SYSTEM: The SCR is designed to remove NO_X pollutants from the flue gas stream exiting the furnace by the injection of anhydrous ammonia through an injection grid located in the gas path. The NO_X reduction takes place as the gases pass through the catalyst chamber. Before entering the catalyst chamber the ammonia is injected and mixed with the gases.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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4) FOR CATALYTIC DEVICES:

TYPE OF CATALYST USED: Titanium-Tungsten-Vanadium

EXPECTED FREQUENCY OF REPLACEMENT: 22,000 hrs (Expected)

5) DESCRIBE NOx CONTROL UTILIZED:

The SCR is designed to remove NO_X pollutants from the flue gas stream exiting the furnace by the injection of anhydrous ammonia through an injection grid located in the gas path. The NO_X reduction takes place as the gases pass through the catalyst chamber. Before entering the catalyst chamber the ammonia is injected and mixed with the gases.

6) NOx CONTROL PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	800	725
INLET GAS FLOW RATE (SCFM):	2,882,100	2,765,510
REDUCING AGENT INPUT RATE (LB/HR):	1,250	1,170
WATER OR STEAM INPUT RATE (LB/HR):	N/A	N/A
FLUE GAS RECIRCULATIONS:	0	0
EFFICIENCY (NOx REDUCTION):	87%	87%

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Hydrated Lime Injection

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10B-3

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Delta Ducon

7) MODEL NUMBER (IF KNOWN):
N/A

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NO_x Burners	EC10B-1
Selective Catalytic Reduction Unit	EC10B-2

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

Hydrated lime injection will be used on an as-needed basis.

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

The hydration lime injection equipment will only be used as needed.

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3: N/A

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	SO_3 and Acid Gases	TBD	TBD	TBD	TBD	TBD	TBD
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: N/A	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	SO_3 and Acid Gases	TBD	TBD	TBD	Case-by-Case MACT
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS. See Form 260-CAAPP for the Wet ESP		
34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
35) DISCHARGE HEIGHT ABOVE GRADE (FT):		
36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?
43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)	*FOR AGENCY USE ONLY* ID NUMBER CONTROL EQUIPMENT # DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10B-3

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:

Hydrated Lime Injection

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:

Hydrated Lime (HL) is pneumatically injected into the flue gas ductwork upstream of the particulate collection device (Dry ESP) on an as needed basis. There the HL mixes with the flue gas reacting with sulfur dioxides to form synthetic gypsum. The synthetic gypsum particles, along with excess HL particles, are then captured in the Dry ESP.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 364

4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG)	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	N/A (%)	N/A (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT? ☒ YES ☐ NO

b) ARE PARTICULATES PRESENT? ☒ YES ☐ NO

c) ARE METALS PRESENT? ☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT SO_3 and Acid Gases):	As Needed (%)	As Needed (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	N/A (%)	N/A (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 3/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: Powder Activated Carbon (PAC) Injection	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: EC10B-4	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): Delta Ducon	
7) MODEL NUMBER (IF KNOWN): N/A	8) SERIAL NUMBER (IF KNOWN): N/A
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 01/2012
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NOX Burners	EC10B-1
Selective Catalytic Reduction Units	EC10B-2
HL Injection	EC10B-3

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

Powder activated carbon injection will be used on an as-needed basis.

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

The powder activated carbon injection equipment will only be used as needed.

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Within two (2) years after initial startup of boiler, report on effectiveness of the system	Study on Sorbent Injection Rate	One-time Report

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4:

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	Hg	N/A	N/A	90	TBD	90	TBD
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	
CONTROL: Emissions testing and CEMS monitoring	
OVERALL: N/A	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	Hg	N/A	90	90	35 IAC 225 Subpart B
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)

FOR AGENCY USE ONLY
ID NUMBER
CONTROL EQUIPMENT #
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC10B-4

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:

Powder Activated Carbon Injection

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:

Powdered activated carbon (PAC) is pneumatically injected into the flue gas ductwork upstream of the particulate collection device (Dry ESP). There the PAC mixes with the flue gas and the vaporited mercury is adsorbed on the surface of the PAC particles. The PAC particles, with mercury, are then captured in the Dry ESP.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR 1039 5 DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	N/A (%)	N/A (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT?

☒ YES ☐ NO

b) ARE PARTICULATES PRESENT?

☒ YES ☐ NO

c) ARE METALS PRESENT?

☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT Hg):	90 (%)	90 (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	N/A (%)	N/A (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
3/15/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dry Electrostatic Precpitation

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10B-5

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Wheelabrator Air Pollution Control Inc.

7) MODEL NUMBER (IF KNOWN):
80/50/4x8/16/1-HaRDE

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NO_X Burners	EC10B-1
Selective Catalytic Reduction Unit	EC10B-2
HL and PAC Injection	EC10B-3 and EC10B-4

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Voltage	Volts	Voltmeter	Continuous
Current	Amps	Ammeter	Continuous
Sparking Rate	Sparks/min	Spark meter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Voltage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Current	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Sparking Rate	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Voltage, current, and sparking rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

All are located in the ESP's electrical system.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Flue gas is ducted from the SCR to the Dry ESP units without opening, capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	99.7	99.7	99.7	99.7
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	N/A
CONTROL: Manufacturer's Specification	N/A
OVERALL: Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i					
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT ELECTROSTATIC PRECIPITATOR (260F)	FOR AGENCY USE ONLY
	ID NUMBER
	CONTROL EQUIPMENT #
	DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF PRECIPITATOR
EC10B-5

2) NUMBER OF SECTIONS	3) NUMBER OF FIELDS
2	4
4) COLLECTION PLATE AREA (FT^2)	5) SPECIFIC COLLECTOR AREA (TOTAL COLLECTING SURFACE SQ. FT./GAS FLOW RATE ACFM X 10 EXP-3)
859,333	298

6) IS PRIMARY VOLTAGE RECORDED?
☒ YES ☐ NO

IF YES, AT WHAT TIME INTERVAL?
Continuously

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FOR APPLICANT'S USE
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7) IS CURRENT RECORDED?

☒ YES ☐ NO

8) IS ANY GAS CONDITIONING PERFORMED?

☐ YES ☒ NO

IF YES, DESCRIBE:

9a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Not Established (%)	Not Established (%)
PARTICULATE CONTENT (GRAINS/SCF):	13.6	13.1

b) ESTIMATE OF MEAN PARTICLE DIAMETER (MICRONS):

80% < 40 micron, 50% <10 micron, 10% at <2 micron

10) ELECTROSTATIC PRECIPITATOR OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	1,916,560	1,855,387
INLET GAS TEMPERATURE (DEGREES F°):	334	327
EFFICIENCY (PM REDUCTION):	99.7 (%)	99.7 (%)
EFFICIENCY (PM10 REDUCTION):	99.7 (%)	99.7 (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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Revision #: _____
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AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Wet Limestone Flue Gas Desulfurization (WFGDs)

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10B-6

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Wheelabrator Air Pollution Control Inc.

7) MODEL NUMBER (IF KNOWN):
N/A

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/ 2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NO_X Burners	EC10B-1
Selective Catalytic Reduction Units	EC10B-2
HL and PAC Injection	EC10B-3 and EC10B-4
Dry Electrostatic Precipitators	EC10B-5

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Reagent Usage Rate	gpm	Flowmeter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Reagent Usage Rate	Electronic and/or hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Reagent Usage Rate

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

Monitor is in the reagent line upstream of use in the WFGD Unit.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2)

The flue gas is ducted from the Dry ESP directly to the WFGD unit without openings, capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	SO_2	100	100	98	98	98	98
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	N/A
CONTROL: Manufacturer's Specification	N/A
OVERALL: Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	SO_2	100	98	98	PSD Condition 2.1.2.b.ii.B
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP for the Wet ESP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP for the Wet ESP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Form 260-CAAPP for the Wet ESP

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT SCRUBBER (260H)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF SCRUBBER:

EC10B-6

2) TYPE OF SCRUBBER:

Wet Limestone Flue Gas Desulfurization

3) TYPE OF SCRUBBANT USED:

Limestone Slurry

4) IS SCRUBBANT RECYCLED BACK INTO CONTROL SYSTEM? ☒ YES ☐ NO

IF YES, DESCRIBE METHOD BY WHICH SCRUBBANT SATURATION IS AVOIDED AND THE DESIRED CONTROL EFFICIENCY IS MAINTAINED:

Scrubbant is treated through a waste water treatment facility

5) TYPICAL PRESSURE DROP (INCHES H_2O):

9.0

6) AFTERBURNER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	334	327
INLET GAS FLOW RATE (SCFM):	1,916,560	1,855,387
SCRUBBANT RATE (GAL/MIN):	1,400	1,400
EFFICIENCY (PM REDUCTION):	N/A	N/A
EFFICIENCY (OTHER; SPECIFY REGULATED AIR POLLUTANT): SO_2	98 (%)	98 (%)

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
3/15/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Wet Electrostatic Precpitation

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC10B-7

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Wheelabrator Air Pollution Control, Inc.

7) MODEL NUMBER (IF KNOWN):
144/40/2x7.5/11/2-HIPWESP

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
01/2012

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Unit 2	EU10B
Low NO_X Burners	EC10B-1
Selective Catalytic Reduction Units	EC10B-2
HL and PAC Injection	EC10B-3 and EC10B-4
Dry Electrostatic Precipitators	EC10B-5
Wet Limestone Flue Gas Desulfurization Units	EC10B-6

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Voltage	Volts	Voltmeter	Continuous
Current	Amps	Ammeter	Continuous
Sparking Rate	Sparks/min	Sparkmeter	Continuous
Water Usage	gpm	Flowmeter	Continuous

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Voltage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Current	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Sparking Rate	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist
Water Usage	Electronic and/or Hardcopy	Sr. Env. Specialist	Sr. Env. Specialist

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

Voltage, Current, Sparking Rate, and Water Usage

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

Voltage, Amperage, and Sparking Rate is monitored via the electrical system while water usage will be monitored upstream of the water being used by the Wet ESP.

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
PSD Reporting Requirement	PM Optimization Evaluation Report	One Time (within 3 years of boiler startup)

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Flue gas is ducted from the WFGD Unit to the WESP without openings capturing 100% of the flue gas.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	99.2	99.2	99.2	99.2
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	N/A
CONTROL: Manufacturer's Specification	N/A
OVERALL: Manufacturer's Specification	N/A

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i					
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM	Inc. by Reference					200 (ppm)	35 IAC 216.121		0.12 lb/MMBtu	3,912
	TYPICAL:	Inc. by Reference					200 (ppm)	35 IAC 216.121			
LEAD	MAXIMUM:	Inc. by Reference					( )				0.295
	TYPICAL:	Inc. by Reference					( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	Inc. by Reference					0.20 (lb/MMBtu)	40 CFR 60 Da		0.07 lb/MMBtu	2,282
	TYPICAL:	Inc. by Reference					1.6 (lb/MW-hr)	40 CFR 60 Da			
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da		0.015 lb/MMBtu	1,143
	TYPICAL:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da			
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da		0.035 lb/MMBtu	1,143
	TYPICAL:	Inc. by Reference					0.015 (lb/MMBtu)	40 CFR 60 Da			
SULFUR DIOXIDE (SO2)	MAXIMUM:	Inc. by Reference					1.20 (lb/MMBtu)	35 IAC 214.121		0.182 lb/MMBtu	5,933
	TYPICAL:	Inc. by Reference					1.20 (lb/MMBtu)	35 IAC 214.121			
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	Inc. by Reference					( )			0.004 lb/MMBtu	130
	TYPICAL:	Inc. by Reference					( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
Incorporated by Reference		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (EP10B)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

700 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

28 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 2,265,013	b) TYPICAL (ACFM): 2,224,294
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 136	b) TYPICAL (°F): 134

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) PC Fired EGU (Unit 2)	EU10B
b) Low NOX Burners	EC10B-1
c) Selective Catalytic Reduction Units	EC10B-2
d) HL Injection	EC10B-3
e) PAC Injection	EC10B-4
f) Dry ESP	EC10B-5
g) WFGD and WESP	EC10B-6 and EC10B-7

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,240.16678	c) UTM HORIZONTAL (KM): 266.72310

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT ELECTROSTATIC PRECIPITATOR (260F)

FOR AGENCY USE ONLY
ID NUMBER
CONTROL EQUIPMENT #
DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF PRECIPITATOR
EC10B-7

2) NUMBER OF SECTIONS	3) NUMBER OF FIELDS
1	2
4) COLLECTION PLATE AREA (FT^2)	5) SPECIFIC COLLECTOR AREA (TOTAL COLLECTING SURFACE SQ. FT./GAS FLOW RATE ACFM X 10 EXP-3)
171,720	76

6) IS PRIMARY VOLTAGE RECORDED?
☒ YES ☐ NO

IF YES, AT WHAT TIME INTERVAL?
Continuous

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

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_____

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7) IS CURRENT RECORDED?

☒ YES ☐ NO

8) IS ANY GAS CONDITIONING PERFORMED?

☐ YES ☒ NO

IF YES, DESCRIBE:

9a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Not Determined (%)	Not Determined (%)
PARTICULATE CONTENT (GRAINS/SCF):	0.02	0.02

b) ESTIMATE OF MEAN PARTICLE DIAMETER (MICRONS):

<10 microns, 10% at <2 microns

10) ELECTROSTATIC PRECIPITATOR OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	2,006,589	1,977,150
INLET GAS TEMPERATURE (DEGREES F°):	136	134
EFFICIENCY (PM REDUCTION):	99.2 (%)	99.2 (%)
EFFICIENCY (PM10 REDUCTION):	99.2 (%)	99.2 (%)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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SPRINGFIELD, ILLINOIS 62794-9506

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Date: ____ / ____ / ____
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_____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:

Auxiliary Boiler

5) NAME OF PROCESS:

Steam Generation

6) DESCRIPTION OF PROCESS:

Production of steam for preheating Unit 1 and Unit 2 and maintenance of plant when Unit 1 and 2 are not operating

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:

Preheating of PC Boiler Units to Achieve Startup Temperature and maintenance of plant when Unit 1 and 2 are not operating

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:

EU67

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):

Nebraska Boiler

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
NB-600D-120	CP-4067

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 11/2010
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):

N/A

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_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

Auxiliary Boiler only to be operated to bring Unit 1 and Unit 2 up to temperatures for coal firing and for space heating as necessary if PC Boiler units are offline. After Unit 1 and Unit 2 shakedown is complete, the Auxiliary Boiler cannot operate more than 500 hrs/yr.

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS Subject to condition 2.4 of the PSD permit	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
b) TYPICAL OPERATING HOURS <500 hr/yr	HOURS/DAY:	DAYS/WEEK:	WEEKS/YEAR:	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

245

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☐ YES ☒ NO

IF YES, EXPLAIN:

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

2,844 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	245			
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	245			
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	N/A			

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY: _____

b) TYPICAL HEAT CONTENT (BTU/SCF):

1000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 123 MM	SCF/YEAR: 123 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: <123 MM	SCF/YEAR: 123 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER): _____

b) TYPICAL HEAT CONTENT: _____

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): ☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☐ BITUMINOUS COAL ☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH):	g) IS THE COAL CLEANED? ☐ YES ☐ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):

i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:

k) FIRING TYPE (CHECK ONE):

☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:

☐ CYCLONE ☐ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM

☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY: _____

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Carbon Monoxide	35 IAC 216.121	200 ppm CO

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
Nitrogen Oxides	40 CFR 60.49b(d)(2) and (q)(1)	Monthly fuel usage records and annual capacity factor

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance was demonstrated per testing requirements as outlined in the final PSD and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
NOx, VOM, CO, PM	tpy	Natural Gas Usage	Monthly
Natural Gas Usage	Cubic Feet	Meter	Monthly
Operating Hours	Hours	Manual Operator Logs and Boiler DCS	Monthly

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
NOx, VOM, CO, PM	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
Natural Gas Usage	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
Operating Hours	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

Monthly records of natural gas usage will be monitored by a fuel meter to aid in emissions calculations for NOx, VOM, CO, and PM as outlined in the PSGC PSD permit. Hours of operation will be monitored by natural gas meter, and boiler system DCS data recording.

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

Monthly natural gas usage, hours of operation

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

Upstream of the boiler in the natural gas supply line.

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☒ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
04/07/11	Methods 1-4, 7E, 9, 10, 18, and 25	Air Hygiene	Full Boiler Load	Compliance

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Initial Startup	NSPS Db Initial Startup	One Time

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
3/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

Low NOx Burners

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

EC67

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):

CB-Natcom

7) MODEL NUMBER (IF KNOWN):	8) SERIAL NUMBER (IF KNOWN):
NCB-26-G	11304

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 11/2010
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Auxiliary Boiler	EU67

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E G , TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

N/A

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	N/A						
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

	EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE:	N/A	N/A
CONTROL:		
OVERALL:		

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	Inc. by Reference				3	200 (ppm)	IAC 216.121		0.11 lb/MMBtu	6.74
	TYPICAL:	Inc. by Reference				3	200 (ppm)	IAC 216.121			
LEAD	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	Inc. by Reference				5	( )			0.167 lb/MMBtu	10.23
	TYPICAL:	Inc. by Reference				5	( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference				3	( )			N/A	0.5
	TYPICAL:	Inc. by Reference				3	( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference				3	( )			N/A	0.5
	TYPICAL:	Inc. by Reference				3	( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	Inc. by Reference				3	( )			0.013 lb/MMBtu	0.8
	TYPICAL:	Inc. by Reference				3	( )				
OTHER, SPECIFY: H_2SO_4 Mist	MAXIMUM:	Inc. by Reference				5	( )				
	TYPICAL:	Inc. by Reference				5	( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
Incorporated by Reference		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (EP67)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

100 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

6 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 71,275	b) TYPICAL (ACFM): 71,275
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 434	b) TYPICAL (°F): <434

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) Auxiliary Boiler	EU67
b) Low NO_X Boilers	EC67
c)	
d)	
e)	
f)	
g)	

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100 %

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,239.85433	c) UTM HORIZONTAL (KM): 266.58461

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT NOx CONTROL (260I)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

NOTE: A COMBUSTION MODIFICATION SUCH AS ADDING A LOW NOx BURNER REQUIRES A SEPARATE ATTACHMENT DESCRIBING THE TYPE OF MODIFICATION AND SUBMITTAL OF THE MANUFACTURER'S SPECIFICATIONS AND GUARANTEES.

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

EC67

2) TYPE OF CONTROL:

- ☐ SELECTIVE CATALYTIC REDUCTION
- ☐ NON-SELECTIVE CATALYTIC REDUCTION
- ☐ SELECTIVE NON-CATALYTIC REDUCTION
- ☒ LOW NOx BURNERS
- ☐ WATER INJECTION IN BURNER
- ☐ STEAM INJECTION IN BURNER
- ☐ FLUE GAS RECIRCULATION
- ☐ CO-FIRING
- ☐ OVERFIRE AIR
- ☐ LOW ACCESS AIR
- ☐ BIAS FIRING
- ☐ OTHER, DESCRIBE: _____

3) FOR REDUCTION DEVICES:

TEMPERATURE AT WHICH REDUCTION OCCURS (DEGREES FAHRENHEIT):

REDUCING AGENT:

REDUCING AGENT USE RATE:

DESCRIPTION OF INJECTION SYSTEM:

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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4) FOR CATALYTIC DEVICES:

TYPE OF CATALYST USED:

EXPECTED FREQUENCY OF REPLACEMENT:

5) DESCRIBE NOx CONTROL UTILIZED:

Low NO_x burners with a manufacturer's predicted emission rate of 0.1013 lb/MMBtu.

6) NOx CONTROL PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
REDUCING AGENT INPUT RATE (LB/HR):	N/A	N/A
WATER OR STEAM INPUT RATE (LB/HR):	N/A	N/A
FLUE GAS RECIRCULATIONS:	N/A	N/A
EFFICIENCY (NOx REDUCTION):	N/A	N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Cooling Tower 01

5) NAME OF PROCESS:
Cooling Tower

6) DESCRIPTION OF PROCESS:
Evaporative cooling for cooling Unit 1 and associated equipment

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Cooled water for heat exchangers

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
CT01

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
International Cooling Tower USA Inc.

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
CF9848-24B-30-5	ICT-CF9848-24B-30-5
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039 5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): Drift Eliminators (CT01-C)	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT"	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Warm Water	203,418,600	890,973,500	195,000,000	856,000,000

21b) PRODUCTS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
Cool Water	203,418,500	890,972,900	195,000,000	856,000,000

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Fugitive PM	35 IAC 212.301	Limit visible emissions to not be visible beyond the property line

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
N/A		

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

PSGC will comply with all requirements spelled out in the PSD permit as well as the requirements in the CAAPP permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

PSGC will comply with all requirements spelled out in the PSD permit as well as the requirements in the CAAPP permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Makeup Water	Gal/month	Flow meter	Continuous
TDS	ppm	Calculated	Monthly

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Recirculated Water	Electronic and/or Hardcopy	Senior Env Specialist	Senior Env. Specialist
TDS	Electronic and/or Hardcopy	Senior Env Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Operations have not yet commenced, as such records have not been generated yet.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Operations have not yet commenced, as such records have not been generated yet.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

The cooling tower cells are equipped with a flow meter to measure makeup water
TDS is monitored via a grab sample which is analyzed in an on-site lab

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Water flow rate and TDS

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

The water flow meter is located in the water line before the cooling tower
TDS is monitored via a grab sample which is analyzed in an on-site lab

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☒ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☒ YES ☐ NO

IF NO, EXPLAIN:

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Report required records identifying any deviations	Fogging/Icing Equipment	Quarterly

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☒[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 3/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Drift Eliminators

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
CT01-C

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
International Cooling Tower USA Inc.

7) MODEL NUMBER (IF KNOWN):
CF9848-24B-30-5

8) SERIAL NUMBER (IF KNOWN):
ICT-CF9848-24B-30-5

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Cooling Tower 01	CT01

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT .

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

N/A

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	N/A						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

	EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE:	N/A	N/A
CONTROL:		
OVERALL:		

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: H_2SO_4 Mist	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (CT01A-X)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

61.7 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

30 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 1,250,899	b) TYPICAL (ACFM): <1,250,899
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 102	b) TYPICAL (°F): <69

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)	Cooling Tower 01	CT01(A-X)
b)	Drift Eliminators	CT01(A-X)-C
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100 %

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): See Attachment 1	c) UTM HORIZONTAL (KM): See Attachment 1

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)	*FOR AGENCY USE ONLY* ID NUMBER CONTROL EQUIPMENT # DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:

CT01-C

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:

Cooling Tower Drift Eliminators

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:

Maximum drift loss of 0.0005% water flow.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992 CHAPTER 111 1/2, PAR 1039 5 DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	100 (%)	100 (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT?

☐ YES ☒ NO

b) ARE PARTICULATES PRESENT?

☒ YES ☐ NO

c) ARE METALS PRESENT?

☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT PM):	99.9995 (%)	99.9995 (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	N/A (%)	N/A (%)

PSGC - Attachment 1

Cell	UTM Vertical (km)	UTM Horizontal (km)
CT01A	4,239.5878	266.9607
CT01B	4,239.5708	266.9607
CT01C	4,239.5538	266.9607
CT01D	4,239.5368	266.9607
CT01E	4,239.5198	266.9607
CT01F	4,239.5028	266.9607
CT01G	4,239.4858	266.9607
CT01H	4,239.4688	266.9607
CT01I	4,239.4518	266.9607
CT01J	4,239.4348	266.9607
CT01K	4,239.4178	266.9607
CT01L	4,239.4008	266.9607
CT01M	4,239.5878	266.9754
CT01N	4,239.5708	266.9754
CT01O	4,239.5538	266.9754
CT01P	4,239.5368	266.9754
CT01Q	4,239.5198	266.9754
CT01R	4,239.5028	266.9754
CT01S	4,239.4858	266.9754
CT01T	4,239.4688	266.9754
CT01U	4,239.4518	266.9754
CT01V	4,239.4348	266.9754
CT01W	4,239.4178	266.9754
CT01X	4,239.4008	266.9754

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Cooling Tower 02

5) NAME OF PROCESS:
Cooling Tower

6) DESCRIPTION OF PROCESS:
Evaporative cooling for cooling Unit 1 and associated equipment

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Cooled water for heat exchangers

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
CT02

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
International Cooling Tower USA Inc.

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
CF9848-24B-30-5	ICT-CF9848-24B-30-5
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE)
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): Drift Eliminators (CT02-C)	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Warm Water	203,418,600	890,973,500	195,000,000	856,000,000

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Cool Water	203,418,500	890,972,900	195,000,000	856,000,000

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Fugitive PM	35 IAC 212.301	Limit visible emissions to not be visible beyond the property line

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
N/A		

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED.

PSGC will comply with all requirements spelled out in the PSD permit as well as the requirements in the CAAPP permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

PSGC will comply with all requirements spelled out in the PSD permit as well as the requirements in the CAAPP permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Makeup Water	Gal/month	Flow meter	Continuous
TDS	ppm	Calculated	Monthly

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Recirculated Water	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
TDS	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Operations have not yet commenced, as such records have not been generated yet.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Operations have not yet commenced, as such records have not been generated yet.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

The cooling tower cells are equipped with a flow meter to measure makeup water
TDS is monitored via a grab sample which is analyzed in an on-site lab

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

Water flow rate and TDS

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

The water flow meter is located in the water line before the cooling tower
TDS is monitored via a grab sample which is analyzed in an on-site lab

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☒ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☒ YES ☐ NO

IF NO, EXPLAIN:

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Report required records identifying any deviations	Fogging/Icing Equipment	Quarterly

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☒[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 3/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: Drift Eliminators	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: CT02-C	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): International Cooling Tower USA Inc.	
7) MODEL NUMBER (IF KNOWN): CF9848-24B-30-5	8) SERIAL NUMBER (IF KNOWN): ICT-CF9848-24B-30-5
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 07/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Cooling Tower 02	CT02

u

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 240-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 240-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 240-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 240-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 240-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 240-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 240-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 240-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 240-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 240-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 240-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 240-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

N/A

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	N/A						
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: N/A	N/A
CONTROL:	
OVERALL:	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference				3	( )				
	TYPICAL:	Inc. by Reference				3	( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: H_2SO_4 Mist	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (CT02A-X)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

61.7 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

30 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 1,250,899	b) TYPICAL (ACFM): <1,250,899
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 102	b) TYPICAL (°F): <69

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)	Cooling Tower 02	CT02(A-X)
b)	Drift Eliminators	CT02(A-X)-C
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100 %

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): See Attachment 2	c) UTM HORIZONTAL (KM): See Attachment 2

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)

FOR AGENCY USE ONLY
ID NUMBER
CONTROL EQUIPMENT #
DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL:
CT02-C

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT:
Cooling Tower Drift Eliminators

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES:
Maximum drift loss of 0.0005% water flow.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

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4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	N/A	N/A
OXYGEN CONTENT:	N/A (%)	N/A (%)
MOISTURE CONTENT:	100 (%)	100 (%)
RELATIVE HUMIDITY:	N/A (%)	N/A (%)

5a) ARE HALOGENATED ORGANICS PRESENT?

☐ YES ☒ NO

b) ARE PARTICULATES PRESENT?

☒ YES ☐ NO

c) ARE METALS PRESENT?

☒ YES ☐ NO

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	N/A	N/A
INLET GAS FLOW RATE (SCFM):	N/A	N/A
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT PM):	99.9995 (%)	99.9995 (%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT):	N/A (%)	N/A (%)

PSGC - Attachment 2

Cell	UTM Vertical (km)	UTM Horizontal (km)
CT02A	4,239.8679	266.8965
CT02B	4,239.8509	266.8965
CT02C	4,239.8339	266.8965
CT02D	4,239.8169	266.8965
CT02E	4,239.7999	266.8965
CT02F	4,239.7829	266.8965
CT02G	4,239.7659	266.8965
CT02H	4,239.7489	266.8965
CT02I	4,239.7319	266.8965
CT02J	4,239.7149	266.8965
CT02K	4,239.6979	266.8965
CT02L	4,239.6809	266.8965
CT02M	4,239.8679	266.9112
CT02N	4,239.8509	266.9112
CT02O	4,239.8339	266.9112
CT02P	4,239.8169	266.9112
CT02Q	4,239.7999	266.9112
CT02R	4,239.7829	266.9112
CT02S	4,239.7659	266.9112
CT02T	4,239.7489	266.9112
CT02U	4,239.7319	266.9112
CT02V	4,239.7149	266.9112
CT02W	4,239.6979	266.9112
CT02X	4,239.6809	266.9112

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation.
_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Transfer Points: MC-1 to MC-2, MC-2 to 6,000 Ton Surge Pile, MC-3 to Screening Facility, MC-4 to Screening Facility, Screening Facility to MC-8, Screening Facility to Rotary Breaker, Rotary Breaker to RC-6, Rotary Breaker to MC-7, RC-6 to Refuse Bin, Refuse Bin to Truck, MC-7 to 30,000 Ton Pile A, MC-8 to 50,000 Ton Pile B, MC-8 to MC-9, MC-9 to 50,000 Ton Pile C, MC-11 to C-1, C-1 to C-2, C-1 to Surge Bin, C-4A to Surge Bin, C-4B to Surge Bin, Surge Bin to Belt Feeder A, Surge Bin to Belt Feeder B, Belt Feeder A to Screen A, Belt Feeder B to Screen B, Screen A Grizzly to Granulator Crusher A, Screen B Grizzly to Granulator Crusher B, Screen A Grizzly to C-5A, Screen B Grizzly to C-5B, Granulator Crusher A to C-5A, Granulator Crusher B to C-5B, C-2 to Power Plant Active Coal Pile B, C-2 to C-3, C-3 to Power Plant Active Coal Pile A, Power Plant Coal Piles (A/B) to Stamler Feeder, Stamler Feeder to C-4A, C-5A to C-6A, C-5B to C-6B, C-6A to Unit 1, C-6B to Unit 1, C-6A to Unit 2, and C-6B to Unit 2

5) NAME OF PROCESS:
Coal Handling

6) DESCRIPTION OF PROCESS:
Handling of all coal via conveyors, feeders, screens, etc.

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Moving of coal from the mine to storage piles and from storage piles to boiler use

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU104, EU118A, EU105, EU107, EU102, EU16B, EU44/45, EU49, EU48, EU41B1, EU41B2, EU1/50B, and EU2

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
N/A

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
N/A	N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 01/2010 or 05/2011 (See Attachment 3)
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
_____

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): See Attachment 3	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 3				

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 3				

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Opacity	40 CFR 60.254(a)	20 percent opacity
Opacity	35 IAC 212.123	30 percent opacity
PM	35 IAC 212.321	Process Weight Rate (See Attachment 4)

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.258(c)	Performance Test Records

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.258(c)	Performance Test Results

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.255(a)	Initial Performance Test

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Opacity	Opacity	Initial Performance Test	Once
PM	Opacity	Method 22	Monthly

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Opacity Performance Test	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
PM	Operational Log	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Units have not yet begun operation

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity	NSPS Y Performance Test	Once

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

See Form 260-CAAPP

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
03/15/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Chutes with Fogging Systems, Dust Suppression Sprays, Enclosures, and Dust Collectors

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC104, EC118A, EC105A, EC105B, EC107, EC102A, EC102B-1, EC102B-2, EC102C, EC16B, EC44/45, EC49-1, EC49-2, EC48, EC41B1, EC41B2, EC1/50B, and EC2

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Dust Solutions, Inc., Airtrol, and FMC (See Attachment 5)

7) MODEL NUMBER (IF KNOWN):
TBD, 192RRWT120 or 484RRWT120 (See Attachment 5)

8) SERIAL NUMBER (IF KNOWN):
TBD

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011 (Projected)

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 5	

u

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE.

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Chutes with Fogging – Conveyors are equipped with a dry fogging system which controls dust
Dust Collector – All emissions are collected via a dust collector before venting to the atmosphere.
Dust Suppression Spray – Spray of water or a surfactant is used to increase moisture thus controlling dust
Enclosure – The emission point is enclosed by a structure limiting the amount of dust escaping

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	See Attachment 5						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM						( )				
	TYPICAL						( )				
LEAD	MAXIMUM						( )				
	TYPICAL						( )				
NITROGEN OXIDES (NOx)	MAXIMUM						( )				
	TYPICAL						( )				
PARTICULATE MATTER (PART)	MAXIMUM	Inc. by Reference					( )				
	TYPICAL						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM	Inc. by Reference					( )				
	TYPICAL						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 6

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC44/45, EC1/50B, and EC2 (See Attachment 7 for the Remaining Information)

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☐ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

4) FILTERING AREA (SQUARE FEET):

5) AIR TO CLOTH RATIO (FEET/MIN):

6) CLEANING METHOD
☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TO (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):		
PARTICULATE INLET LOADING (GRAINS/SCF):		

b) MEAN PARTICLE DIAMETER (MICRONS):

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):		
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):		
EFFICIENCY (PM REDUCTION):	%	%
EFFICIENCY (PM10 REDUCTION):	%	%

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: _____

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
Date: ____ / ____ / ____
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Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT OTHER TYPE OF CONTROL (260K)	***FOR AGENCY USE ONLY***
	ID NUMBER
	CONTROL EQUIPMENT #
	DATE

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF CONTROL
EC104, EC118A, EC105A, EC105B, EC107, EC102A, EC102B-1, EC102B-2, EC102C, EC16B, EC49-1, EC49-2, EC48, EC41B1, and EC41B2 (See Attachment 8)

2) GENERIC NAME OF "OTHER" CONTROL EQUIPMENT
See Attachment 8

3) PROVIDE A DESCRIPTION AND SKETCH WITH DIMENSIONS AND FLOW RATES
See Attachment 8

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

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4) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
PRESSURE (mmHG):	See Attachment 8	
OXYGEN CONTENT:	(%)	(%)
MOISTURE CONTENT:	(%)	(%)
RELATIVE HUMIDITY:	(%)	(%)

5a) ARE HALOGENATED ORGANICS PRESENT?

☐ YES ☒ NO

b) ARE PARTICULATES PRESENT?

☒ YES ☐ NO

c) ARE METALS PRESENT?

☒ YES ☐ NO

*Note trace amounts present

6) CONTROL OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET GAS TEMPERATURE (DEGREES F°):	See Attachment 8	
INLET GAS FLOW RATE (SCFM):		
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	(%)	(%)
EFFICIENCY (SPECIFY REGULATED AIR POLLUTANT _____):	(%)	(%)

PSGC - Attachment 3

4) Name of Emission Unit[1]	8) Flow Diagram Designation	12a) Construction	12b) Operation	15) Control Equipment	21a) Raw Materials					21b) Products				
					Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
MC-1 to MC-2	EU104	Sep-07	Jan-10	Chutes with Fogging (EC104)	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090
MC-2 to 6,000 Ton Surge Pile	EU118A	Sep-07	Jan-10	Dust Suppression Spray (EC118A)	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090
MC-3 to Screening Facility	EU105-1	Sep-07	May-11	Chutes with Fogging (EC105A)	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045
MC-4 to Screening Facility	EU105-2	Sep-07	May-11	Chutes with Fogging (EC105A)	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045
Screening Facility to MC-8	EU105-3	Sep-07	May-11	Chutes with Fogging (EC105A)	Coal	4,800,000	6,245,041	<4,800,000	<6,245,040	Coal	4,800,000	6,245,041	<4,800,000	<6,245,040
Screening Facility to Rotary Breaker	EU105-4	Sep-07	May-11	Chutes with Fogging (EC105A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
Rotary Breaker to MC-7	EU105-5	Sep-07	May-11	Chutes with Fogging (EC105A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
Rotary Breaker to RC-6	EU105-6	Sep-07	May-11	Enclosure / Dust Suppression Spray (EC105B)	Coal	36,000	113,061	<36,000	<113,061	Coal	36,000	113,061	<36,000	<113,061
RC-6 to Refuse Bin	EU107-1	Sep-07	May-11	Dust Suppression Spray (EC107)	Reject Coal	36,000	113,061	<36,000	<113,061	Reject Coal	36,000	113,061	<36,000	<113,061
Refuse Bin to Truck	EU107-2	Sep-07	May-11	Dust Suppression Spray (EC107)	Reject Coal	36,000	113,061	<36,000	<113,061	Reject Coal	36,000	113,061	<36,000	<113,061
MC-7 to Coal Pile Stack Tube A	EU102A	Sep-07	May-11	Dust Suppression Spray (EC102A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
MC-8 to Coal Pile Stack Tube B	EU102B-1	Sep-07	May-11	Dust Suppression Spray (EC102B-1)	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520
MC-8 to MC-9	EU102B-2	Sep-07	May-11	Chutes with Fogging (EC102B-2)	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520
MC-9 to Coal Pile Stack Tube C	EU102C	Sep-07	May-11	Dust Suppression Spray (EC102C)	Coal	4,800,000	3,065,990	<4,800,000	<3,065,989	Coal	4,800,000	3,065,990	<4,800,000	<3,065,989
MC-11 to C-1	EU16B	Sep-07	May-11	Chutes with Fogging (EC16B)	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029
C-1 to C-2	EU44/45-1	Sep-07	May-11	Dust Collector (EC44/45)	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029
C-1 to Surge Bin	EU44/45-2	Sep-07	May-11	Dust Collector (EC44/45)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-4A to Surge Bin	EU44/45-3	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-4B to Surge Bin	EU44/45-4	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Surge Bin to Belt Feeder A	EU44/45-5	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Surge Bin to Belt Feeder B	EU44/45-6	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Belt Feeder A to Screen A	EU44/45-7	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Belt Feeder B to Screen B	EU44/45-8	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Screen A Grizzly to Granulator Crusher A	EU44/45-9	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen B Grizzly to Granulator Crusher B	EU44/45-10	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen A Grizzly to C-5A	EU44/45-11	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen B Grizzly to C-5B	EU44/45-12	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Granulator Crusher A to C-5A	EU44/45-13	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Granulator Crusher B to C-5B	EU44/45-14	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-2 to Active Pile Stack Tube B	EU49-1	Sep-07	May-11	Dust Suppression Spray (EC49-1)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-2 to C-3	EU49-2	Sep-07	May-11	Chutes with Fogging (EC49-2)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-3 to Coal Pile A	EU48	Sep-07	May-11	Dust Suppression Spray (EC48)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
Storage Coal Piles (A&B) to Stamler Feeder	EU41B1	Sep-07	May-11	Dust Suppression Spray (EC41B1)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Stamler Feeder to Conveyor C-4A	EU41B2	Sep-07	May-11	Dust Suppression Spray (EC41B2)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-5A to C-6A	EU1/50B-1	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-5B to C-6B	EU1/50B-2	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-6A to Unit 1 Loading	EU1/50B-3	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6B to Unit 1 Loading	EU1/50B-4	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6A to Unit 2 Loading	EU2-1	Sep-07	May-11	Dust Collector (EC2)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6B to Unit 2 Loading	EU2-2	Sep-07	May-11	Dust Collector (EC2)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257

Notes

[1] MC = Mine Conveyor, RC = Reject Conveyor, C = Conveyor

PSGC - Attachment 4

Emission Unit	A (Constant)[a]	B (Constant)[b]	P Process Weight Rate (ton/hr)	$E = A(P)^B$ Emission Limit (lb/hr)
Coal Handling System	24.8	0.16	4,000	93
MC 1 to 2	24.8	0.16	4,000	93
MC 1 to 6,000 Ton Surge Pile	24.8	0.16	4,000	93
MC 3 to Screening Facility	24.8	0.16	1,400	79
MC 4 to Screening Facility	24.8	0.16	1,400	79
Screening Facility to MC8	24.8	0.16	2,400	86
Screening Facility to Rotary Breaker	24.8	0.16	500	67
Rotary Breaker to MC 7	24.8	0.16	500	67
Rotary Breaker to RC 6	2.54	0.67	18	18
RC 6 to Refuse Bin	2.54	0.67	18	18
Refuse Bin to Truck	2.54	0.67	18	18
MC 7 to 30,000 Ton Pile 1	24.8	0.16	500	67
MC 8 to 50,000 Ton Pile 2	24.8	0.16	2,400	86
MC 8 to MC 9	24.8	0.16	2,400	86
MC 9 to 50,000 Ton Pile 3	24.8	0.16	2,400	86
MC 11 to C-1	24.8	0.16	2,600	87
C-1 to C-2	24.8	0.16	2,600	87
C-1 to Surge Bin	24.8	0.16	2,600	87
C-4A to Surge Bin	24.8	0.16	2,000	84
C-4B to Surge Bin	24.8	0.16	2,000	84
Surge Bin to Belt Feeder A	24.8	0.16	2,000	84
Surge Bin to Belt Feeder B	24.8	0.16	2,000	84
Belt Feeder A to Screen A	24.8	0.16	2,000	84
Belt Feeder B to Screen B	24.8	0.16	2,000	84
Screen A Grizzly to Granulator Crusher A	24.8	0.16	2,000	84
Screen B Grizzly to Granulator Crusher B	24.8	0.16	2,000	84
Screen A Grizzly to C-5A	24.8	0.16	2,000	84
Screen B Grizzly to C-5B	24.8	0.16	2,000	84
Granulator Crusher A to C-5A	24.8	0.16	2,000	84
Granulator Crusher B to C-5B	24.8	0.16	2,000	84
C-2 to Coal Pile B	24.8	0.16	2,600	87
C-2 to C-3	24.8	0.16	2,600	87
C-3 to Coal Pile A	24.8	0.16	2,600	87
Storage Coal Piles (A&B) to Stamler Feeder	24.8	0.16	2,000	84
Stamler Feeder to Conveyor C-4A	24.8	0.16	2,000	84
C-5A to C-6A	24.8	0.16	2,000	84
C-5B to C-6B	24.8	0.16	2,000	84
C-6A to Unit 1	24.8	0.16	2,000	84
C-6B to Unit 1	24.8	0.16	2,000	84
C-6A to Unit 2	24.8	0.16	2,000	84
C-6B to Unit 2	24.8	0.16	2,000	84

[a] Per 35 IAC 212.321, for a PWR <450 T/hr, A is 2.54 and for a PWR >450 T/hr, A is 24.8

[b] Per 35 IAC 212.321, for a PWR <450 T/hr, B is 0.67 and for a PWR >450 T/hr, B is 0.16

PSGC - Attachment 5

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	9a) Construction	9b) Operation	11) EU Ducting Emissions	30a) Control Performance			
							Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Chutes with Fogging	EC104	Dust Solutions, Inc	N/A	Sep-07	Jan-10	EU104	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC118A	Dust Solutions, Inc	N/A	Sep-07	Jan-10	EU118A	PM	N/A	99.5%	99.5%
Chutes with Fogging	EC105A	Dust Solutions, Inc	N/A	Sep-07	May-11	EU105-1,2,3,4,5	PM	N/A	99.5%	99.5%
Enclosure / Dust Suppression Spray	EC105B	Dust Solutions, Inc	N/A	Sep-07	May-11	EU105-6	PM	100%	99.5%	99.5%
Dust Suppression Spray	EC107	Dust Solutions, Inc	N/A	Sep-07	May-11	EU107-1,2	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC102A	Dust Solutions, Inc	N/A	Sep-07	May-11	EU102A	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC102B-1	Dust Solutions, Inc	N/A	Sep-07	May-11	EU102B-1	PM	N/A	90.0%	90.0%
Chutes with Fogging	EC102B-2	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU102B-2	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC102C	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU102C	PM	N/A	90.0%	90.0%
Chutes with Fogging	EC16B	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU16B	PM	N/A	99.5%	99.5%
Dust Collector	EC44/45	Airtrol	192RRWT120	Sep-07	May-11	EU44/45-1,2,3,4,5,6,7,8,9,10,11,12,13,14	PM	100%	99.5%	99.5%
Dust Suppression Spray	EC49-1	FMC	N/A	Sep-07	May-11	EU49-1	PM	N/A	90.0%	90.0%
Chutes with Fogging	EC49-2	FMC	N/A	Sep-07	May-11	EU49-2	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC48	FMC	N/A	Sep-07	May-11	EU48	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC41B1	FMC	N/A	Sep-07	May-11	EU41B1	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC41B2	FMC	N/A	Sep-07	May-11	EU41B2	PM	N/A	90.0%	90.0%
Dust Collector	EC1/50B	Airtrol	484RRWT120	Sep-07	May-11	EU1/50B-1,2,3,4	PM	100%	99.5%	99.5%
Dust Collector	EC2	Airtrol	428RRWT120	Sep-07	May-11	EU2-1,2	PM	100%	99.5%	99.5%

PSGC - Attachment 6

33) EP Description	34) Distance to Boundary (ft)	35) Height (ft)	36) GEP Height (ft)	37) Diameter (ft)	38) Gas Flow Rate (ACFM)	39) Gas Temp (F)	40) Direction	41) EU and Control Devices Served	42) Percent of Emissions Ducted to this Point	43) Remaining Emissions Ducted to?	45a) UTM Zone	45b) UTM Vertical	45c) UTM Horizontal	Release Height (ft)	Initial Lateral Dimension (ft)	Initial Vertical Dimension (ft)
Stack (EP44/45)	TBD	70	N/A	1.83	9,300	110	Vertical	EU44/45-1,2,3,4,5,6,7,8,9,10,11,12,13,14, EC44/45	100	N/A	16	4,240 33190	266 60869	N/A	N/A	N/A
Stack (EP1/50B)	TBD	250	N/A	2 92	23,300	110	Vertical	EU1/50B-1,2,3,4, EC1/50B	100	N/A	16	4,239 93523	266 64180	N/A	N/A	N/A
Stack (EP2)	TBD	250	N/A	2 92	21,800	110	Vertical	EU2-1,2, EC2	100	N/A	16	4,239 93122	266 75881	N/A	N/A	N/A
Volume (EP104)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU104, EC104	100	N/A	16	4,240 06950	267 87865	25 8	1 4	8 3
Volume (EP118A)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU118A, EC118A	100	N/A	16	4,240 06970	267 81870	32 6	1 4	1 9
Volume (EP105A)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU105-1,2,3,4,5, EC105-1	100	N/A	16	4,240 07170	267 75710	39 5	1 4	3 0
Volume (EP105B)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU105-6, EC105-6	100	N/A	16	4,240 07220	267 74450	39 5	1 4	3 0
Volume (EP107)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU107-1,2, EC107	100	N/A	16	4,240 09850	267 71600	56 6	1 4	5 8
Volume (EP102A)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU102A, EC102A	100	N/A	16	4,240 07850	267 53520	79 0	1 4	1 9
Volume (EP102B-1)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU102B-1, EC102B-1	100	N/A	16	4,240 08220	267 46580	86 9	1 4	1 9
Volume (EP102B-2)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU102B-2, EC102B-2	100	N/A	16	4,240 08290	267 46080	8 0	1 4	3 7
Volume (EP102C)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU102C, EC102C	100	N/A	16	4,240 08550	267 39790	86 9	1 4	1 9
Volume (EP16B)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU16B, EC16B	100	N/A	16	4,240 09767	267 16418	80 6	1 4	1 9
Volume (EP49-1)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU49-1, EC49-1	100	N/A	16	4,240 11860	266 36360	12 7	1 4	5 9
Volume (EP49-2)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU49-2, EC49-2	100	N/A	16	4,240 12160	266 41010	80 6	1 4	1 9
Volume (EP48)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU48, EC48	100	N/A	16	4,240 11620	266 45340	0 0	1 4	6 5
Volume (EP41B1)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU41B1, EC41B1	100	N/A	16	4,240 17420	266 50820	7 0	1 4	3 3
Volume (EP41B2)	TBD	N/A	N/A	N/A	N/A	N/A	Volume	EU41B2, EC41B2	100	N/A	16	4,240 11690	266 50860	11 9	1 4	5 5

PSGC - Attachment 7

1) Flow Diagram	2) Filter Config	3) Filter Mat'l	4) Filtering Area (ft^2)	5) Air to Cloth Ratio (ft/min)	6) Cleaning Method	7) DP Range	8a) Inlet Emission		8b) Mean Particle Diameter	9) Filter Operating Parameters				10) Filter Monitoring	11) Recording Device and Frequency	12) Filter Seeding
							Moisture Content (%BV)	Inlet Loading (gr/scf)		Inlet Flow Rate (SCFM)	Inlet Gas Temp (F)	Efficiency (PM)	Efficiency (PM_{10})			
EC44/45	Closed Pressure	Polyester felt with PTFE membrane	2,465	3.8:1	Low pressure high volume reverse air pulse	TBD	12.4	25 (Design)	10	9300	110.0	99.5	99.5	Visual opacity	Monthly	N/A
EC1/50B	Closed Pressure	Polyester felt with PTFE membrane	6,215	3.7:1	Low pressure high volume reverse air pulse	TBD	12.4	25 (Design)	10	23300	110.0	99.5	99.5	Visual opacity	Monthly	N/A
EC2	Closed Pressure	Polyester felt with PTFE membrane	5,496	4.0:1	Low pressure high volume reverse air pulse	TBD	12.4	25 (Design)	10	21800	110.0	99.5	99.5	Visual opacity	Monthly	N/A

PSGC - Attachment 8

1) Flow Diagram	2) Generic Name	3) Description	4) Inlet Emission Stream Parameters				6) Control Operating Parameters			
			Pressure (mmHg)	Oxygen Content	Moisture Content (%)	Relative Humidity	Inlet Gas Temp (F)	Inlet Gas Flow Rate (SCFM)	Efficiency (PM)	Efficiency (PM_{10})
EC104	Chutes with Fogging	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC118A	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC105A	Chutes with Fogging	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC105B	Enclosure / Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC107	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102A	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102B-1	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102B-2	Chutes with Fogging	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC102C	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC16B	Chutes with Fogging	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC49-1	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC49-2	Chutes with Fogging	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC48	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC41B1	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC41B2	Dust Suppression Spray	Dry fogging system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation:
_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/18/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Crushers 1 and 2

5) NAME OF PROCESS:
Coal Preparation

6) DESCRIPTION OF PROCESS:
Crushing coal before being sent to boiler

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Crushing raw mined coal into usable form

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU44/45-C1 and C2

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
American Pulverizer

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
ACC-57H-BG-NF	8821 and 8822
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): Dust Collector EC44/45	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Coal (Each Boiler)	4,000,000	3,716,515	848,519	3,716,515

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Crushed Coal (Each Boiler)	4,000,000	3,716,515	848,519	3,716,515

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Opacity	40 CFR 60.254(a)	20 percent opacity
Opacity	35 IAC 212.123	30 percent opacity
PM	35 IAC 212.321	Process Weight Rate (84 lb/hr each and 93 lb/hr for both crushers combined)

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.258(c)	Performance Test Records

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.258(c)	Performance Test Results

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.255(a)	Initial Performance Test

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Opacity	Opacity	Initial Performance Test	Once

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Opacity Performance Test	Electronic or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO
IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE: N/A	
e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO
IF NO, EXPLAIN: N/A	
f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO
IF NO, EXPLAIN: N/A	

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity	NSPS Y Performance Test	Once

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE	MAXIMUM	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
MATTER	TYPICAL	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/18/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dust Collector

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC44/45

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Airtrol

7) MODEL NUMBER (IF KNOWN):
192RRWT120

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Crusher 1	EU44/45-C1
Crusher 2	EU44/45-C2

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Dust collector for the crusher building collects dust from both crushers and other material transfer points.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☐ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100%	100%	99.5%	99.5%	99.5%	99.5%
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Guarantee	
CONTROL: Manufacturer's Guarantee	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.) IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (EP44/45)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

70 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

1.83

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 9,300	b) TYPICAL (ACFM): <9,300
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): 110	b) TYPICAL (°F): 110

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) Crusher 1	EU44/45-C1
b) Crusher 2	EU44/45-C2
c) Crusher Dust Collector	EC44/45
d)	
e)	
f)	
g)	

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100%

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,240.3319	c) UTM HORIZONTAL (KM): 266.60869

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL – PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
Date: ____ / ____ / ____
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Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC44/45

2) FILTER CONFIGURATION (CHECK ONE):
☐ OPEN PRESSURE ☒ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:

3) DESCRIBE FILTER MATERIAL:

Polyester felt with PTFE membrane

4) FILTERING AREA (SQUARE FEET):	5) AIR TO CLOTH RATIO (FEET/MIN):
2,465	3.8:1

6) CLEANING METHOD
☐ SHAKER ☒ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:

7) NORMAL RANGE OF PRESSURE DROP: TBD TO TBD (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	12.4	<12.4
PARTICULATE INLET LOADING (GRAINS/SCF):	25	<25

b) MEAN PARTICLE DIAMETER (MICRONS):

10

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	9,300	<9,300
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):	110	110
EFFICIENCY (PM REDUCTION):	99.5 %	99.5 %
EFFICIENCY (PM10 REDUCTION):	99.5 %	99.5 %

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☒ VISUAL OPACITY READINGS, FREQUENCY: Monthly

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

N/A

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/18/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION	
4) NAME OF EMISSION UNIT: Rail Car to Unloading Hopper, LS-1 to Limestone Storage Pile, Diverter Gate A to LS Day Bin A or B, Diverter Gate B to LS Day Bin A or B	
5) NAME OF PROCESS: Limestone Preparation and Handling	
6) DESCRIPTION OF PROCESS: Move limestone from storage piles and rail cars to day bins	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Move limestone from storage piles and rail cars to day bins	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU17, EU58, EU75A, and EU75B	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): FMC and Siemens	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

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FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): See Attachment 9	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 9				

21b) PRODUCTS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
See Attachment 9				

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	Process Weight Rate (See Attachment 10)
Opacity	35 IAC 212.123	30 percent opacity
PM, Opacity	40 CFR 60.672(a)	Stack Emissions - 0.022 gr/dscf, 7 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
PM	40 CFR 60.676(f)	Performance Test Report

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity	40 CFR 60.675	Initial Method 9 Test
PM	40 CFR 60.675	Initial Method 5 Test

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Opacity	Opacity	Initial Performance Test	Once
PM	gr/dscf	Initial Performance Test	Once

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Opacity Performance Test	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist
PM Performance Test	Electronic and/or Hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity	NSPS OOO Performance Test	Once
PM	NSPS OOO Performance Test	Once

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
MATTER	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:

Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/18/2011	189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

Dust Collector, Enclosed, Vent Filters

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:

EC17, EC58, EC75A, EC75B

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):

Airtrol, Wheelabrator

7) MODEL NUMBER (IF KNOWN):	8) SERIAL NUMBER (IF KNOWN):
156RRWT120, 36 WCC	N/A, 40-7154

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	
	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):

N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 11	

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G. TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Dust Collector – All emissions are collected via a dust collector before venting to the atmosphere.
Enclosed – The emission point is enclosed by a structure limiting the amount of dust escaping.
Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	See Attachment 11						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM						( )				
	TYPICAL						( )				
LEAD	MAXIMUM						( )				
	TYPICAL						( )				
NITROGEN OXIDES (NOx)	MAXIMUM						( )				
	TYPICAL						( )				
PARTICULATE MATTER (PART)	MAXIMUM	Inc. by Reference					( )				
	TYPICAL						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM	Inc. by Reference					( )				
	TYPICAL						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 12

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
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Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC17, EC58, EC75A, and EC75B (See Attachment 13 for the Remaining Information)

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☐ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

4) FILTERING AREA (SQUARE FEET):

5) AIR TO CLOTH RATIO (FEET/MIN):

6) CLEANING METHOD
☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TO (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):		
PARTICULATE INLET LOADING (GRAINS/SCF):		

b) MEAN PARTICLE DIAMETER (MICRONS):

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE 554

9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):		
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):		
EFFICIENCY (PM REDUCTION):	%	%
EFFICIENCY (PM10 REDUCTION):	%	%

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: _____

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

PSGC - Attachment 9

4) Name of Emission Unit	8) Flow Diagram Designation	9) Manufacturer	15) Control Equipment	21a)					21b)				
				Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
Rail Car to Unloading Hopper	EU17	FMC	Dust Collector (EC17)	Limestone	2,500,000	1,500,000	<2,500,000	<1,500,000	Limestone	2,500,000	1,500,000	<2,500,000	<1,500,000
LS-1 to Limestone Storage Pile	EU58	FMC	Enclosed (EC58)	Limestone	2,500,000	1,500,000	<2,500,000	<1,500,000	Limestone	2,500,000	1,500,000	<2,500,000	<1,500,000
Diverter Gate A to LS Day Bin A	EU75A	Siemens	Vent Filter (EC75A)	Limestone	1,000,000	375,000	<1,000,000	<375,000	Limestone	1,000,000	375,000	<1,000,000	<375,000
Diverter Gate B to LS Day Bin A	EU75A	Siemens	Vent Filter (EC75A)	Limestone	1,000,000	375,000	<1,000,000	<375,000	Limestone	1,000,000	375,000	<1,000,000	<375,000
Diverter Gate A to LS Day Bin B	EU75B	Siemens	Vent Filter (EC75B)	Limestone	1,000,000	375,000	<1,000,000	<375,000	Limestone	1,000,000	375,000	<1,000,000	<375,000
Diverter Gate B to LS Day Bin B	EU75B	Siemens	Vent Filter (EC75B)	Limestone	1,000,000	375,000	<1,000,000	<375,000	Limestone	1,000,000	375,000	<1,000,000	<375,000

PSGC - Attachment 10

Emission Unit	A (Constant)[a]	B (Constant)[b]	P Process Weight Rate (ton/hr)	$E = A(P)^B$ Emission Limit (lb/hr)
Rail Car to Unloading Hopper	24.8	0.16	1.250	78
LS-1 to Limestone Storage Pile	24.8	0.16	1.250	78
Diverter Gate A to LS Day Bin A	24.8	0.16	500	67
Diverter Gate B to LS Day Bin A	24.8	0.16	500	67
Diverter Gate A to LS Day Bin B	24.8	0.16	500	67
Diverter Gate B to LS Day Bin B	24.8	0.16	500	67

[a] Per 35 IAC 212.321, for a PWR <450 T/hr, A is 2.54 and for a PWR >450 T/hr, A is 24.8

PSGC - Attachment 11

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	8) Serial Number	11) EU Ducting Emissions	30a) Control Performance			
						Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Dust Collector	EC17	Airtrol	156RRWT120	N/A	EU17	PM	100%	99.5%	99.5%
Enclosed	EC58	Airtrol	156RRWT120	N/A	EU58	PM	100%	99.0%	99.0%
Vent Filter	EC75A	Wheelabrator	36 WCC	40-7154	EU75A	PM	100%	99.9%	99.9%
Vent Filter	EC75B	Wheelabrator	36 WCC	40-7154	EU75B	PM	100%	99.9%	99.9%

PSGC - Attachment 12

33) EP Description	34) Distance to Boundary (ft)	35) Height (ft)	36) GEP Height (ft)	37) Diameter (ft)	38) Gas Flow Rate (ACFM)	39) Gas Temp (F)	40) Direction	41) EU and Control Devices Served	42) Percent of Emissions Ducted to this Point	43) Remaining Emissions Ducted to?	45a) UTM Zone	45b) UTM Vertical (km)	45c) UTM Horizontal (km)
Stack (EP17)	TBD	20	N/A	5.00	63,600	Ambient	Vertical	Rail Car to Unloading Hopper(EU17), Dust Collector (EC17)	100%	N/A	16	4,240.3492	266.7834
Stack (EP58)	TBD	40	N/A	1.67	8,000	110	Vertical	LS-1 to Limestone Storage Pile(EU58); Enclosed (EC58)	100%	N/A	16	4,240.2450	266.6964
Stack (EP75A)	TBD	137	N/A	2.26	1,600	200	Vertical	Diverter Gate A or B to LS Day Bin A (EU75A); Vent Filter (EC75A)	100%	N/A	16	4,240.1311	266.7828
Stack (EP75B)	TBD	137	N/A	2.26	1,600	200	Vertical	Diverter Gate A or B to LS Day Bin B (EU75A); Vent Filter (EC75B)	100%	N/A	16	4,240.1301	266.8118

PSGC - Attachment 13

1) Flow Diagram	2) Filter Config	3) Filter Mat'l	4) Filtering Area (ft^2)	5) Air to Cloth Ratio (ft/min)	6) Cleaning Method	7) DP Range	8a) Inlet Emission Parameters		8b) Mean Particle Diameter	9) Filter Operating Parameters				10) Filter Monitoring	11) Recording Device and Frequency	12) Filter Seeding
							Moisture Content (%BV)	Inlet Loading (gr/scf)		Inlet Flow Rate (SCFM)	Inlet Gas Temp (F)	Efficiency (PM)	Efficiency (PM_{10})			
EC17	Closed pressure	Polyester felt with PFTE membrane	15,100	4.0:1	Pulse air	TBD	TBD	TBD	10	63,600	Ambient	99.5%	99.5%	Visual Opacity	Monthly	N/A
EC58	Closed pressure	Polyester felt with PFTE membrane	2,003	4.0:1	Pulse air	TBD	TBD	TBD	10	8,000	110	99.0%	99.0%	Visual Opacity	Monthly	N/A
EC75A	Closed pressure	Polyester felt with PFTE membrane	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	99.9%	99.9%	Visual Opacity	Monthly	N/A
EC75B	Closed pressure	Polyester felt with PFTE membrane	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	99.9%	99.9%	Visual Opacity	Monthly	N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:	
Prairie State Generating Station	
2) DATE FORM PREPARED: 03/18/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT: Hydrated Lime Storage Silo Unit 1 and Unit 2 Silos	
5) NAME OF PROCESS: Hydrated Lime Storage	
6) DESCRIPTION OF PROCESS: Store hydrated lime	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Store hydrated lime	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU15A1, EU15A2, EU15A3, EU15A4	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Delta Ducon	
10) MODEL NUMBER (IF KNOWN): 36 WCC	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): See Attachment 14	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 14				

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21b) PRODUCTS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
See Attachment 14				

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES LBS/HR	MAXIMUM RATES TONS/YEAR	TYPICAL RATES LBS/HR	TYPICAL RATES TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	Process Weight Rate (See Attachment 15)
Opacity	35 IAC 212.123	30 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Material Throughput	Tons/Month	Material Receipts	Monthly

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Material Throughput	Electronic and/or hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4.

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A		

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
MATTER	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD)		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/18/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: Bin Vent Filters	
5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM: EC15A1, EC15A2, EC15A3, and EC 15A4	
6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN): Wheelabrator	
7) MODEL NUMBER (IF KNOWN): 3944-CSFE	8) SERIAL NUMBER (IF KNOWN): 3944
9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 16	

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE – ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	See Attachment 16						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE [3]OTHER TERMS	[1]ACTUAL EMISSION RATE [3]OTHER TERMS	[1]ACTUAL EMISSION RATE [4]DM	ALLOWABLE BY RULE EMISSION RATE [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE RATE (UNITS)	[2]PERMITTED EMISSION RATE TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 17

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

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Source Designation:
_____

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC15A1, EC15A2, EC15A3, and EC15A4 (See Attachment 18 for the Remaining Information)

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☐ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

4) FILTERING AREA (SQUARE FEET):

5) AIR TO CLOTH RATIO (FEET/MIN):

6) CLEANING METHOD
☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TO (INCH H_20)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):		
PARTICULATE INLET LOADING (GRAINS/SCF):		

b) MEAN PARTICLE DIAMETER (MICRONS):

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):		
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):		
EFFICIENCY (PM REDUCTION):	%	%
EFFICIENCY (PM10 REDUCTION):	%	%

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: _____

☐ OTHER, SPECIFY: _____

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

PSGC - Attachment 14

4) Name of Emission Unit	8) Flow Diagram Designation	9) Manufacturer	10) Model Number	15) Control Equipment	21a) Raw Materials					21b) Products				
					Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Product	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
Hydrated Lime Storage Silo Unit 1 Silo 1	EU15A1	Delta Ducon	36 WCC	Bin Vent Filter (EC15A1)	Hydrated Lime	1,925	8,432	1,003	4,391	Hydrated Lime	1,925	8,432	1,003	4,391
Hydrated Lime Storage Silo Unit 1 Silo 2	EU15A2	Delta Ducon	36 WCC	Bin Vent Filter (EC15A2)	Hydrated Lime	1,925	8,432	1,003	4,391	Hydrated Lime	1,925	8,432	1,003	4,391
Hydrated Lime Storage Silo Unit 2 Silo 1	EU15A3	Delta Ducon	36 WCC	Bin Vent Filter (EC15A3)	Hydrated Lime	1,925	8,432	1,003	4,391	Hydrated Lime	1,925	8,432	1,003	4,391
Hydrated Lime Storage Silo Unit 2 Silo 2	EU15A4	Delta Ducon	36 WCC	Bin Vent Filter (EC15A4)	Hydrated Lime	1,925	8,432	1,003	4,391	Hydrated Lime	1,925	8,432	1,003	4,391

PSGC - Attachment 15

Emission Unit	A (Constant)[a]	B (Constant)[b]	P Process Weight Rate (ton/hr)	$E = A(P)^B$ Emission Limit (lb/hr)
Hydrated Lime Storage Silo Unit 1 Silo 1	2.54	0.67	0.96	2.48
Hydrated Lime Storage Silo Unit 1 Silo 2	2.54	0.67	0.96	2.48
Hydrated Lime Storage Silo Unit 2 Silo 1	2.54	0.67	0.96	2.48
Hydrated Lime Storage Silo Unit 2 Silo 2	2.54	0.67	0.96	2.48

[a] Per 35 IAC 212.321, for a PWR <450 T/hr, A is 2.54 and for a PWR >450 T/hr, A is 24.8

[b] Per 35 IAC 212.321, for a PWR <450 T/hr, B is 0.67 and for a PWR >450 T/hr, B is 0.16

PSGC - Attachment 16

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	8) Serial Number	11) EU Ducting Emissions	30a) Control Performance			
						Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Bin Vent Filter	EC15A1	Wheelabrator	3944-CSFE	3944	EU15A1	PM	100%	TBD	TBD
Bin Vent Filter	EC15A2	Wheelabrator	3944-CSFE	3944	EU15A2	PM	100%	TBD	TBD
Bin Vent Filter	EC15A3	Wheelabrator	3944-CSFE	3944	EU15A3	PM	100%	TBD	TBD
Bin Vent Filter	EC15A4	Wheelabrator	3944-CSFE	3944	EU15A4	PM	100%	TBD	TBD

PSGC - Attachment 17

33) EP Description	34) Distance to Boundary (ft)	35) Height (ft)	36) GEP Height (ft)	37) Diameter (ft)	38) Gas Flow Rate (ACFM)	39) Gas Temp (F)	40) Direction	41) EU and Control Devices Served	42) Percent of Emissions Ducted to this Point	43) Remaining Emissions Ducted to?	45a) UTM Zone	45b) UTM Vertical (km)	45c) UTM Horizontal (km)
Stack (EP15A1)	TBD	76.3	N/A	0.82	1,600	200	Vertical	Bin Vent Filter (EC15A1)	100%	N/A	16	4240.02599	266.60459
Stack (EP15A2)	TBD	76.3	N/A	0.82	1,600	200	Vertical	Bin Vent Filter (EC15A2)	100%	N/A	16	4240.02461	266.609423
Stack (EP15A3)	TBD	76.3	N/A	0.82	1,600	200	Vertical	Bin Vent Filter (EC15A3)	100%	N/A	16	4240.02352	266.801582
Stack (EP15A4)	TBD	76.3	N/A	0.82	1,600	200	Vertical	Bin Vent Filter (EC15A4)	100%	N/A	16	4240.02335	266.806457

PSGC - Attachment 18

1) Flow Diagram	2) Filter Config	3) Filter Mat'l	4) Filtering Area (ft^2)	5) Air to Cloth Ratio (ft/min)	6) Cleaning Method	7) DP Range	8a) Inlet Emission Parameters		8b) Mean Particle Diameter	9) Filter Operating Parameters				10) Filter Monitoring	11) Recording Device and Frequency	12) Filter Seeding
							Moisture Content (%BV)	Inlet Loading (gr/scf)		Inlet Flow Rate (SCFM)	Inlet Gas Temp (F)	Efficiency (PM)	Efficiency (PM_{10})			
EC15A1	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A
EC15A2	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A
EC15A3	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A
EC15A4	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A

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FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME:	
Prairie State Generating Station	
2) DATE FORM PREPARED: 03/18/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT: Powder Activated Carbon Storage Silo Unit 1 and Unit 2 Silos	
5) NAME OF PROCESS: Powder Activated Carbon (PAC) Storage	
6) DESCRIPTION OF PROCESS: Store PAC	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Store PAC	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU15B1 and EU15B2	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Delta Ducon	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):	
See Attachment 19	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):	
N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 19				

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 19				

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	Process Weight Rate (See Attachment 20)
Opacity	35 IAC 212.123	30 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Material Throughput	Tons/Month	Material Receipts	Monthly

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Material Throughput	Electronic and/or hardcopy	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A		

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM	See Form 260-CAAPP					( )				
	TYPICAL						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
03/18/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dust Collectors

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC15B1 and EC15B2

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Wheelabrator

7) MODEL NUMBER (IF KNOWN):
36 WCC

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

Printed on Recycled Paper
260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 21	

u

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	See Attachment 21						
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE [3]OTHER TERMS	[1]ACTUAL EMISSION RATE [3]OTHER TERMS	[1]ACTUAL EMISSION RATE [4]DM	ALLOWABLE BY RULE EMISSION RATE [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE RATE (UNITS)	[2]PERMITTED EMISSION RATE TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 22

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
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SPRINGFIELD, ILLINOIS 62794-9506

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SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC15B1 and EC15B2 (See Attachment 23 for the Remaining Information)

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☐ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

4) FILTERING AREA (SQUARE FEET):

5) AIR TO CLOTH RATIO (FEET/MIN):

6) CLEANING METHOD
☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TO (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):		
PARTICULATE INLET LOADING (GRAINS/SCF):		

b) MEAN PARTICLE DIAMETER (MICRONS):

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM)		
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):		
EFFICIENCY (PM REDUCTION):	%	%
EFFICIENCY (PM10 REDUCTION):	%	%

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: _____

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

PSGC - Attachment 19

4) Name of Emission Unit	8) Flow Diagram Designation	9) Manufacturer	10) Model Number	15) Control Equipment	21a) Raw Materials					21b) Products				
					Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Product	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
Powder Activated Carbon Storage Silo Unit 1 Silo	EU15B1	Delta Ducon	N/A	Bin Vent Filter (EC15B1)	Powder Activated Carbon	1,570	6,877	<1,570	<6,877	Powder Activated Carbon	1,570	6,877	<1,570	<6,877
Powder Activated Carbon Storage Silo Unit 2 Silo	EU15B2	Delta Ducon	N/A	Bin Vent Filter (EC15B2)	Powder Activated Carbon	1,570	6,877	<1,570	<6,877	Powder Activated Carbon	1,570	6,877	<1,570	<6,877

PSGC - Attachment 20

Emission Unit	A (Constant)[a]	B (Constant)[b]	P Process Weight Rate (ton/hr)	$E = A(P)^B$ Emission Limit (lb/hr)
Powder Activated Carbon Storage Silo Unit 1 Silo	2.54	0.67	0.79	2.16
Powder Activated Carbon Storage Silo Unit 2 Silo	2.54	0.67	0.79	2.16

[a] Per 35 IAC 212.321, for a PWR <450 T/hr, A is 2.54 and for a PWR >450 T/hr, A is 24.8

[b] Per 35 IAC 212.321, for a PWR <450 T/hr, B is 0.67 and for a PWR >450 T/hr, B is 0.16

PSGC - Attachment 21

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	11) EU Ducting Emissions	30a) Control Performance			
					Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Dust Collector	EC15B1	Wheelabrator	36 WCC	EU15B1	PM	100%	TBD	TBD
Dust Collector	EC15B2	Wheelabrator	36 WCC	EU15B2	PM	100%	TBD	TBD

PSGC - Attachment 22

33) EP Description	34) Distance to Boundary (ft)	35) Height (ft)	36) GEP (ft)	37) Diameter (ft)	38) Gas Flow Rate (ACFM)	39) Gas Temp (F)	40) Direction	41) EU and Control Devices Served	42) Percent of Emissions Ducted to this Point	43) Remaining Emissions Ducted to?	45a) UTM Zone	45b) UTM Vertical (km)	45c) UTM Horizontal (km)
Stack (EP15B1)	TBD	87.7	N/A	0.83	1,600	200	Vertical	PAC Silo 1 (EU15B1), Dust Collector (EC15B1)	100%	N/A	16	4240.04504	266.61256
Stack (EP15B2)	TBD	87.7	N/A	0.83	1,600	200	Vertical	PAC Silo 2 (EU15B2), Dust Collector (EC15B2)	100%	N/A	16	4240.05283	266.81563

PSGC - Attachment 23

1) Flow Diagram	2) Filter Config	3) Filter Mat'l	4) Filtering Area (ft^2)	5) Air to Cloth Ratio (ft/min)	6) Cleaning Method	7) DP Range	8a) Inlet Emission Parameters		8b) Mean Particle Diameter	9) Filter Operating Parameters				10) Filter Monitoring	11) Recording Device and Frequency	12) Filter Seeding
							Moisture Content (%BV)	Inlet Loading (gr/scf)		Inlet Flow Rate (SCFM)	Inlet Gas Temp (F)	Efficiency (PM)	Efficiency (PM_{10})			
EC15B1	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A
EC15B2	Closed pressure	Polyester felt	TBD	TBD	Pulse air	TBD	TBD	5 to 10	10	1,600	200	TBD	TBD	Visual Opacity	Monthly	N/A

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FOR APPLICANT'S USE
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Source Designation:
_____

PROCESS EMISSION UNIT DATA AND INFORMATION	***FOR AGENCY USE ONLY***
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/18/2011	3) SOURCE ID NO (IF KNOWN): 189808AAB

GENERAL INFORMATION	
4) NAME OF EMISSION UNIT: Soda Ash Silo	
5) NAME OF PROCESS: Soda Ash Storage	
6) DESCRIPTION OF PROCESS: Store soda ash	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Store Soda Ash	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU138A	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Enpro	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT. IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): Dust Collector (EC138A)	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT"	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Soda Ash	2,600	11,388	<2,600	<11,388

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Soda Ash	2,600	11,388	<2,600	<11,388

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	3.03 lb/hr
Opacity	35 IAC 212.123	30 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
N/A			

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
N/A			

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4.

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A		

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
MATTER	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
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		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.		
39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		
48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:		

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE		
49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
03/18/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dust Collector

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC138A

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Dantherm

7) MODEL NUMBER (IF KNOWN):
SiloSafe 24-66

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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_____

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Soda Ash Silo	EU138A

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE.

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2).

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	TBD	TBD	TBD	TBD
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (EP138A)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

82.3 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

1.6 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 1500	b) TYPICAL (ACFM): 1500
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): Ambient	b) TYPICAL (°F): Ambient

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) Soda Ash Silo	EU138A
b) Soda Ash Silo Bin Vent Filter	EC138A
c)	
d)	
e)	
f)	
g)	

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,239.92491	c) UTM HORIZONTAL (KM): 266.38379

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC138A

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☒ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

CA-190 Spun Bond with PTFE Membrane

4) FILTERING AREA (SQUARE FEET):	5) AIR TO CLOTH RATIO (FEET/MIN):
426	2.0:1

6) CLEANING METHOD
☐ SHAKER ☒ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TBD TO TBD (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Ambient	Ambient
PARTICULATE INLET LOADING (GRAINS/SCF):	N/A	N/A

b) MEAN PARTICLE DIAMETER (MICRONS):

N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992 CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	1500	1500
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):	Ambient	Ambient
EFFICIENCY (PM REDUCTION):	N/A %	N/A %
EFFICIENCY (PM10 REDUCTION):	N/A %	N/A %

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☒ VISUAL OPACITY READINGS, FREQUENCY: Monthly

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

N/A

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
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_____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/18/2011	189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Quick Lime Silo

5) NAME OF PROCESS:
Quick Lime Storage

6) DESCRIPTION OF PROCESS:
Store Quick Lime

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Store Quick Lime

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU138B

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Enpro

10) MODEL NUMBER (IF KNOWN):	11) SERIAL NUMBER (IF KNOWN):
N/A	N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

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_____

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14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT) Dust Collector (EC138B)	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: **24**	DAYS/WEEK: **7**	WEEKS/YEAR: **52**	
b) TYPICAL OPERATING HOURS	HOURS/DAY: **24**	DAYS/WEEK: **7**	WEEKS/YEAR: **52**	
20) ANNUAL THROUGHPUT	DEC-FEB(%): **25**	MAR-MAY(%): **25**	JUN-AUG(%): **25**	SEP-NOV(%): **25**

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Quick Lime	4,800	21,024	<4,800	<21,024

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
Quick Lime	4,800	21,024	<4,800	<21,024

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT % , NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	4.57 lb/hr
Opacity	35 IAC 212.123	30 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
N/A			

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
N/A			

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A		

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐[1]ACTUAL EMISSION RATE ☐[1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	*MAXIMUM:*	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
42) DISCHARGE HEIGHT ABOVE GRADE (FT):		
43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	CONTROL EQUIPMENT #:
	DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/18/2011	189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Dust Collector

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC138B

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Dantherm

7) MODEL NUMBER (IF KNOWN):	8) SERIAL NUMBER (IF KNOWN):
SiloSafe 24-66	N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
Quick Lime Silo	EU138B

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)		CONTROL EQUIPMENT EFFICIENCY (%)		OVERALL REDUCTION EFFICIENCY (%)	
		(MIN)	(TYP)	(MIN)	(TYP)	(MIN)	(TYP)
i	PM	100	100	TBD	TBD	TBD	TBD
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	[1]ACTUAL EMISSION RATE: TONS PER YEAR (TONS/YR)	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [3]OTHER TERMS	[1]ACTUAL EMISSION RATE: [4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	ALLOWABLE BY RULE EMISSION RATE: APPLICABLE RULES	ALLOWABLE BY RULE EMISSION RATE: TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	[2]PERMITTED EMISSION RATE: TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

Stack (EP138B)

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

TBD

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

83 ft

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

N/A

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

1.6 ft

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM): 1500	b) TYPICAL (ACFM): 1500
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F): Ambient	b) TYPICAL (°F): Ambient

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

Vertical

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a) Quick Lime Silo	EU138B
b) Quick Lime Silo Bin Vent Filter	EC138B
c)	
d)	
e)	
f)	
g)	

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

100

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

N/A

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE: 16	b) UTM VERTICAL (KM): 4,239.92154	c) UTM HORIZONTAL (KM): 266.39442

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:

SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC138B

2) FILTER CONFIGURATION
(CHECK ONE): ☐ OPEN PRESSURE ☒ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:

3) DESCRIBE FILTER MATERIAL:

CA-190 Spun Bond with PTFE Membrane

4) FILTERING AREA (SQUARE FEET):	5) AIR TO CLOTH RATIO (FEET/MIN):
426	2.0:1

6) CLEANING METHOD
☐ SHAKER ☒ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:

7) NORMAL RANGE OF PRESSURE DROP: TBD TO TBD (INCH H_2O)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):	Ambient	Ambient
PARTICULATE INLET LOADING (GRAINS/SCF):	N/A	N/A

b) MEAN PARTICLE DIAMETER (MICRONS):

N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):	1500	1500
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):	Ambient	Ambient
EFFICIENCY (PM REDUCTION):	N/A %	N/A %
EFFICIENCY (PM10 REDUCTION):	N/A %	N/A %

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E.G., BROKEN BAGS)?

- ☐ CONTINUOUS OPACITY
- ☐ PRESSURE DROP
- ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR
- ☒ VISUAL OPACITY READINGS, FREQUENCY: Monthly
- ☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

N/A

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

N/A

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

PROCESS EMISSION UNIT DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION	
4) NAME OF EMISSION UNIT: Unit 1 and Unit 2 Fly Ash Storage Silos	
5) NAME OF PROCESS: Fly Ash Storage	
6) DESCRIPTION OF PROCESS: Fly Ash Storage	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Fly Ash Storage	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU14A and EU14B	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): TBD	
10) MODEL NUMBER (IF KNOWN): TBD	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION?	☐ YES ☒ NO
IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 220-CAAPP MUST BE COMPLETED FOR EACH MODE):	
15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT): See Attachment 24	
16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".	☐ YES ☒ NO
17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME): N/A	

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 220-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: **24**	DAYS/WEEK: **7**	WEEKS/YEAR: **52**	
b) TYPICAL OPERATING HOURS	HOURS/DAY: **24**	DAYS/WEEK: **7**	WEEKS/YEAR: **52**	
20) ANNUAL THROUGHPUT	DEC-FEB(%): **25**	MAR-MAY(%): **25**	JUN-AUG(%): **25**	SEP-NOV(%): **25**

MATERIAL USAGE INFORMATION

	MAXIMUM RATES		TYPICAL RATES	
21a) RAW MATERIALS	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 24				

21b) PRODUCTS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
See Attachment 24				

21c) BY-PRODUCT MATERIALS	MAXIMUM RATES		TYPICAL RATES	
	LBS/HR	TONS/YEAR	LBS/HR	TONS/YEAR
N/A				

FUEL USAGE DATA – N/A

22a) MAXIMUM FIRING RATE (MILLION BTU/HR):	b) TYPICAL FIRING RATE (MILLION BTU/HR):	c) DESIGN CAPACITY FIRING RATE (MILLION BTU/HR):

d) FUEL TYPE:

☐ NATURAL GAS ☐ FUEL OIL: GRADE NUMBER _____ ☐ COAL ☐ OTHER _____

IF MORE THAN ONE FUEL IS USED, ATTACH AN EXPLANATION AND LABEL AS EXHIBIT 220-2.

e) TYPICAL HEAT CONTENT OF FUEL (BTU/LB, BTU/GAL OR BTU/SCF):	f) TYPICAL SULFUR CONTENT (WT %., NA FOR NATURAL GAS):
g) TYPICAL ASH CONTENT (WT %., NA FOR NATURAL GAS):	h) ANNUAL FUEL USAGE (SPECIFY UNITS, E.G., SCF/YEAR, GAL/YEAR, TON/YEAR):

23) ARE COMBUSTION EMISSIONS DUCTED TO THE SAME STACK OR CONTROL AS PROCESS UNIT EMISSIONS? ☐ YES ☐ NO

IF NO, IDENTIFY THE EXHAUST POINT FOR COMBUSTION EMISSIONS:

APPLICABLE RULES

24) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.204(j)(4), 3.5 LBS/GAL).

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
PM	35 IAC 212.321	Process Weight Rate (See Attachment 25)
Opacity	35 IAC 212.123	30 percent opacity

25) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)

26) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)

27) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)

28) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)

29) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE?	☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 220-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

30) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?	☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

31) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD and issued CAAPP Permit.

32) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

33a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
N/A			

33b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
N/A			

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☒ NO

IF NO, EXPLAIN:

Records have not been created yet as the source has not commenced operation.

34a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., VOM EMISSIONS TO ATMOSPHERE)?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR 3 FEET FROM EXIT):

N/A

34d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE?	☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION?	☐ YES ☒ NO

IF NO, EXPLAIN:

N/A

35) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 220-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

36) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A		

(37)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE / [1]UNCONTROLLED EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(38) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		*MAXIMUM:*	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	*TYPICAL:*	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 220-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

39) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

40) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

41) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

42) DISCHARGE HEIGHT ABOVE GRADE (FT):

43) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

44) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

45) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
46) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

47) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

48) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

NAME		FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

49a) LATITUDE:	b) LONGITUDE:	
50) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
03/15/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Bin Vent Filter

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC14A and EC14B

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Camcorp

7) MODEL NUMBER (IF KNOWN):
14BH10X210

8) SERIAL NUMBER (IF KNOWN):
N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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260-CAAPP

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 26	

u

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G. TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER).

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	See Attachment 26						
ii							
iii							

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Specification	
CONTROL: Manufacturer's Specification	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 27

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

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SUPPLEMENTAL FORM AIR POLLUTION CONTROL EQUIPMENT FILTER (260C)

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

DATA AND INFORMATION

1) FLOW DIAGRAM DESIGNATION OF FILTER:

EC14A and EC14B (See Attachment 28 for the Remaining Information)

2) FILTER CONFIGURATION
(CHECK ONE) ☐ OPEN PRESSURE ☐ CLOSED PRESSURE ☐ CLOSED SUCTION
☐ OTHER, DESCRIBE:
_____

3) DESCRIBE FILTER MATERIAL:

4) FILTERING AREA (SQUARE FEET):

5) AIR TO CLOTH RATIO (FEET/MIN):

6) CLEANING METHOD
☐ SHAKER ☐ REVERSE AIR ☐ PULSE AIR ☐ PULSE JET
☐ OTHER, DESCRIBE:
_____

7) NORMAL RANGE OF PRESSURE DROP: TO (INCH H_20)

8a) INLET EMISSION STREAM PARAMETERS:

	MAX	TYPICAL
MOISTURE CONTENT (% BY VOLUME):		
PARTICULATE INLET LOADING (GRAINS/SCF):		

b) MEAN PARTICLE DIAMETER (MICRONS):

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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9) FILTER OPERATING PARAMETERS:

	DURING MAXIMUM OPERATION OF FEEDING UNIT(S)	DURING TYPICAL OPERATION OF FEEDING UNIT(S)
INLET FLOW RATE (SCFM):		
INLET GAS TEMPERATURE (DEGREES FAHRENHEIT):		
EFFICIENCY (PM REDUCTION):	%	%
EFFICIENCY (PM10 REDUCTION):	%	%

10) HOW IS FILTER MONITORED FOR INDICATIONS OF DETERIORATION (E G., BROKEN BAGS)?

☐ CONTINUOUS OPACITY ☐ PRESSURE DROP ☐ ALARMS-AUDIBLE TO PROCESS OPERATOR

☐ VISUAL OPACITY READINGS, FREQUENCY: _____

☐ OTHER, SPECIFY:

11) DESCRIBE ANY RECORDING DEVICE AND FREQUENCY OF LOG ENTRIES:

12) DESCRIBE ANY FILTER SEEDING BEING PERFORMED:

PSGC - Attachment 24

4) Name of Emission Unit	8) Flow Diagram Designation	15) Control Equipment	21a) Raw Materials					21b) Products				
			Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Product	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
Unit 1 Fly Ash Storage Silos	EU14A	Bin Vent Filter (EC14A)	Fly Ash	404,000	734,120	<404,000	<734,120	Fly Ash	404,000	734,120	<404,000	<734,120
Unit 2 Fly Ash Storage Silos	EU14B	Bin Vent Filter (EC14B)	Fly Ash	404,000	734,120	<404,000	<734,120	Fly Ash	404,000	734,120	<404,000	<734,120

PSGC - Attachment 25

Emission Unit	A (Constant)[a]	B (Constant)[b]	P Process Weight Rate (ton/hr)	$E = A(P)^B$ Emission Limit (lb/hr)
Unit 1 Fly Ash Storage Silos	2.54	0.67	202	89
Unit 2 Fly Ash Storage Silos	2.54	0.67	202	89

[a] Per 35 IAC 212.321, for a PWR <450 T/hr, A is 2.54 and for a PWR >450 T/hr, A is 24.8

[b] Per 35 IAC 212.321, for a PWR <450 T/hr, B is 0.67 and for a PWR >450 T/hr, B is 0.16

PSGC - Attachment 26

4) Name of Control Equipment	5) Flow Diagram Designation	11) EU Ducting Emissions	30a) Control Performance			
			Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Vent Filter	EC14A	EU14A	PM	100%	TBD	TBD
Vent Filter	EC14B	EU14B	PM	100%	TBD	TBD

PSGC - Attachment 27

33) EP Description	34) Distance to Boundary (ft)	35) Height (ft)	36) GEP (ft)	37) Diameter (ft)	38) Gas Flow Rate (ACFM)	39) Gas Temp (F)	40) Direction	41) EU and Control Devices Served	42) Percent of Emissions Ducted to this Point	43) Remaining Emissions Ducted to?	45a) UTM Zone	45b) UTM Vertical (km)	45c) UTM Horizontal (km)
Stack (EP14A)	TBD	121	N/A	1.83	12,700	Ambient	Vertical	EU14A, EC14A	100	N/A	16	4240.1451	266.5921
Stack (EP14B)	TBD	121	N/A	1.83	12,700	Ambient	Vertical	EU14B, EC14B	100	N/A	16	4240.1601	266.5988

PSGC - Attachment 28

1) Flow Diagram	2) Filter Config	3) Filter Mat'l	4) Filtering Area (ft^2)	5) Air to Cloth Ratio (ft/min)	6) Cleaning Method	7) DP Range	8a) Inlet Emission Parameters		8b) Mean Particle Diameter	9) Filter Operating Parameters				10) Filter Monitoring	11) Recording Device and Frequency	12) Filter Seeding
							Moisture Content (% BV)	Inlet Loading (gr/scf)		Inlet Flow Rate (SCFM)	Inlet Gas Temp (F)	Efficiency (PM)	Efficiency (PM_{10})			
EC14A	Closed pressure	16 oz. micro-denier filter bags	3360	TBD	Pulse air	TBD	0.1	0.0007	10	12,700	167.50	99.5	99.5	Visual Opacity	Monthly	N/A
EC14B	Closed pressure	16 oz. micro-denier filter bags	3360	TBD	Pulse air	TBD	0.1	0.0007	10	12,700	167.50	99.5	99.5	Visual Opacity	Monthly	N/A

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Source Designation:
_____

STORAGE TANK DATA AND INFORMATION	***FOR AGENCY USE ONLY***
	ID NUMBER:
	EMISSION POINT #:
	DATE:

NOTE: THIS INFORMATION FORM MUST BE COMPLETED FOR ANY TANK USED IN THE STORAGE OF AN ORGANIC LIQUID OR ANY MATERIALS CONTAINING HAZARDOUS AIR POLLUTANTS. FOR TANKS USED FOR PURPOSES OTHER THAN STORAGE, SUCH AS MIXING TANKS, DAY TANKS, PROCESS TANKS, ETC., PLEASE COMPLETE FORM 220-CAAPP.

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 03/15/2011	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION	
4) TANK DESIGNATION: Gasoline Storage Tank	
5) FLOW DIAGRAM DESIGNATION OF TANK: LG-1A	
6) MANUFACTURER OF TANK (IF KNOWN): Evergreen FS, Inc.	
7) SERIAL NUMBER (IF KNOWN): B-528329	
8) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS TANK (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 05/2011
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
9) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	
10) DOES THE TANK HAVE MORE THAN ONE MODE OF OPERATION? (E.G., IS THERE MORE THAN ONE PRODUCT STORED IN THE TANK?) ☐ YES ☒ NO IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS APPLICATION (NOTE: A SEPARATE FORM 232-CAAPP MUST BE COMPLETED FOR EACH MODE):	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
232-CAAPP

11) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS TANK, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

None

12) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., PRODUCTION VARIATION, ETC.):

TANK INFORMATION

13) TANK CAPACITY (SPECIFY BARRELS OR GALLONS):

1,000 Gallons

14) TANK DIAMETER OR WIDTH (FT):	15) TANK HEIGHT (FT):	16) TANK LENGTH (FT):
5.41 ft	6 ft	6 ft

17) TANK SHAPE (CHECK ONE):
- ☐ CYLINDRICAL
- ☒ HORIZONTAL
- ☐ OTHER; SPECIFY: _____

18) OUTSIDE COLOR OF TANK (CHECK ONE):
- ☒ WHITE
- ☐ SILVER
- ☐ OTHER; SPECIFY: _____

19) TANK CONDITION (CHECK ONE):
- ☒ GOOD
- ☐ FAIR
- ☐ POOR

20) TANK LOCATION (CHECK ONE):
- ☐ UNDERGROUND
- ☒ ABOVEGROUND

21) TANK TYPE (CHECK ONE):
- ☒ FIXED ROOF
- ☐ PRESSURE
- ☐ EXTERNAL FLOATING ROOF
- ☐ INTERNAL FLOATING ROOF
- ☐ VARIABLE VAPOR SPACE; SPECIFY VOLUME EXPANSION CAPACITY (bbl): _____
- ☐ OTHER; SPECIFY: _____

22) VENT VALVE INFORMATION:

TYPE OF VENT	NUMBER OF VENTS	PRESSURE SETTING (PSIG)	DISCHARGE VENTED TO (ATMOSPHERE, FLARE, VAPOR CONTROL, ETC.)
COMBINATION			
PRESSURE	2	0.75	ATMOSPHERE
VACUUM	1	-0.75	ATMOSPHERE
OPEN			

THE INFORMATION IN ITEMS 23 AND 24 BELOW NEED ONLY BE PROVIDED IF READILY AVAILABLE

23a) LATITUDE:	b) LONGITUDE:

24a) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):
16	4,240.452369	267.824183

MATERIAL STORED AND THROUGHPUT INFORMATION

25) CHEMICAL NAME OF MATERIAL STORED:

GASOLINE

26) CAS NO. (IF KNOWN):

27) DENSITY
(LB/CU.FT.):

(LB/GALLON): 5.6

28) VAPOR PRESSURE AT 70 DEGREES FAHRENHEIT (PSIA): 9.7656

29) MOLECULAR WEIGHT (LB/LB-MOLE): 60

30) VAPOR PRESSURE AT MAXIMUM STORAGE TEMPERATURE (PSIA):

16.0948

31) METHOD USED TO DETERMINE VAPOR PRESSURE PURSUANT TO 35 ILL. ADM. CODE 215.108, 218.109-111, OR 219.109-111:

☐ ASTM D2879-86

☐ PUBLISHED LITERATURE, LIST:

☒ OTHER; SPECIFY:
AP-42 CHAPTER 7 (ORGANIC LIQUID STORAGE TANKS)

32) STORAGE TEMPERATURE

MINIMUM (DEGREES FAHRENHEIT):	MAXIMUM (DEGREES FAHRENHEIT):
Ambient	Ambient

33) THROUGHPUT

GAL/DAY:	GAL/YR:
	3,000
BBLS/DAY:	BBLS/YR:

34) MAXIMUM FILL RATE (GAL/HR):

3,000

35) IS A PERMANENT SUBMERGED LOADING PIPE USED? ☒ YES ☐ NO

36) IS A VAPOR BALANCE LINE USED? ☐ YES ☒ NO

37) IS ANY OTHER VAPOR LOSS CONTROL DEVICE USED (OTHER THAN VAPOR BALANCE)? ☐ YES ☒ NO

IF YES, COMPLETE "AIR POLLUTION CONTROL EQUIPMENT -- DATA AND INFORMATION, " (FORM 260-CAAPP), AS PART OF THIS APPLICATION.

38) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE PRECEDING INFORMATION, MATERIAL STORAGE INFORMATION AND THROUGHPUT DATA WERE BASED AND LABEL AS EXHIBIT 232-1.

APPLICABLE RULES

39) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATIONS(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS TANK (E.G., VOM, IAC 218.121(a), PRESSURE TANK):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
VOM	35 IAC 215.301	8 lb VOM/hr
VOM	35 IAC 215.583(a)(1)	Submerged Loading Pipe

40) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS TANK:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
N/A		

41) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS TANK:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
N/A		

42) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS TANK:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
N/A		

43) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS TANK:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
N/A		

44) DOES THE TANK QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☒ YES ☐ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 232-2, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

45) IS THE TANK IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS?: ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

46) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance is demonstrated per calculations run by U.S. EPA's TANKS 4.0.9d software.

47) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per calculations run by U.S. EPA's TANKS 4.0.9d software.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

48a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
Gasoline Throughput	Gallons	Delivery Invoices	Annually

b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Gasoline Throughput	Manually and/or Electronically	Senior Env. Specialist	Senior Env. Specialist

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

49a) DESCRIBE ANY EMISSION MONITORS USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., TEMPERATURE)?

N/A

49c) DESCRIBE THE LOCATION OF EACH MONITOR:

N/A

d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED TANK IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

50) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 232-3:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

51) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
VOM	Annual Emissions Report 35 IAC 254	ANNUAL

(52)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☒ [1]ACTUAL EMISSION RATE / ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:						( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	2.96	0.05			3	8.0 (lb/hr)	35 IAC 215.301			
	TYPICAL:	0.01	<0.05			3	8.0 (lb/hr)	35 IAC 215.301			
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 232-4. (TANKS V2)

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

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(53) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

☒ [1]ACTUAL EMISSION RATE
☐ [1]UNCONTROLLED EMISSION RATE

HAP INFORMATION			POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER						[5]RATE OR STANDARD	APPLICABLE RULE
2,2,4-Trimethylpentane	540-84-1	MAXIMUM:	0.02	0.0004		2		
		TYPICAL:	0.0001	0.0004		2		
Benzene	71-43-2	MAXIMUM:	0.03	0.0005		2		
		TYPICAL:	0.0001	0.0005		2		
Ethyl Benzene	100-41-4	MAXIMUM:	0.003	0.0001		2		
		TYPICAL:	0.00001	0.0001		2		
Hexane	110-54-3	MAXIMUM:	0.05	0.0009		2		
		TYPICAL:	0.0002	0.0009		2		
Polycyclic Organic Matter	N/A	MAXIMUM:	0.01	0.0003		2		
		TYPICAL:	0.0001	0.0003		2		
Toluene	108-88-3	MAXIMUM:	0.04	0.0007		2		
		TYPICAL:	0.0002	0.0007		2		
Xylenes	1330-20-7	MAXIMUM:	0.01	0.0003		2		
		TYPICAL:	0.0001	0.0003		2		
		MAXIMUM:						
		TYPICAL:						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		2	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		2	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 232-5.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

FLOATING ROOF TANK EQUIPMENT INFORMATION (IF APPLICABLE) – N/A

54) FLOATING ROOF TYPE (CHECK ONE):
☐ INTERNAL ☐ EXTERNAL
☐ OTHER; SPECIFY: _____

55) PRIMARY SEAL TYPE (CHECK ONE):
☐ METALLIC SHOE SEAL ☐ LIQUID MOUNTED RESILIENT SEAL ☐ VAPOR MOUNTED RESILIENT SEAL
☐ OTHER; SPECIFY: _____

56) IS THE FLOATING ROOF EQUIPPED WITH A SECONDARY SEAL? ☐ YES ☐ NO

IF YES, HOW IS THE SECONDARY SEAL MOUNTED? (CHECK ONE):
☐ SHOE ☐ RIM
☐ OTHER; SPECIFY: _____

57) IS THE FLOATING ROOF EQUIPPED WITH A WEATHER SHIELD? ☐ YES ☐ NO

58) WHAT IS THE AVERAGE WIND SPEED AT THE TANK SITE (MILES/HR)?

59) WHAT IS THE CONDITION OF THE TANK SHELL INTERIOR? (CHECK ONE):
☐ LIGHT RUST ☐ DENSE RUST ☐ GUNITE LINED
☐ OTHER; EXPLAIN: _____

60) FOR COLUMN SUPPORTED TANKS, COMPLETE THE FOLLOWING:

NUMBER OF COLUMNS	DIAMETER OF EACH COLUMN (FT)

61) FOR INTERNAL FLOATING ROOF TANKS, COMPLETE THE FOLLOWING:

a) WHAT IS THE METHOD OF BONDING FOR THE DECK?
☐ BOLTING ☐ WELDING
☐ OTHER; SPECIFY: _____

b) WHAT IS THE TOTAL LENGTH OF ALL DECK SEAMS (FT)?

c) WHAT IS THE DIAMETER OF THE DECK (FT)?

62) FOR INTERNAL FLOATING ROOF TANKS, INDICATE THE NUMBER OF EACH TYPE OF FITTING:

ACCESS HATCH

BOLT COVER, GASKETED:	UNBOLTED COVER, GASKETED:	UNBOLTED COVER, UNGASKETED:

AUTOMATIC GAUGE FLOAT WELL

BOLTED COVER, GASKETED:	UNBOLTED COVER, GASKETED:	UNBOLTED COVER, UNGASKETED:

COLUMN WELL

BUILT-UP COLUMN-SLIDING COVER, GASKETED:	BUILT-UP COLUMN-SLIDING COVER, UNGASKETED:	PIPE COLUMN-FLEXIBLE FABRIC SLEEVE SEAL:

PIPE COLUMN-SLIDING COVER, GASKETED:	PIPE COLUMN-SLIDING COVER, UNGASKETED:

LADDER WELL

SLIDING COVER, GASKETED:	SLIDING COVER, UNGASKETED:

SAMPLE PIPE OR WELL

SLOTTED PIPE-SLIDING COVER, GASKETED:	SLOTTED PIPE-SLIDING COVER, UNGASKETED:	SAMPLE WELL-SLIT FABRIC SEAL (10% OPEN AREA):

ROOF LEG OR HANGER WELL

ADJUSTABLE:	FIXED:

VACUUM BREAKER

WEIGHTED MECHANICAL ACTUATION, GASKETED:	WEIGHTED MECHANICAL ACTUATION, UNGASKETED:

STUB DRAIN

1 INCH DIAMETER:

OTHER (EXPLAIN)

a)
b)
c)

PSGC Gasoline Storage Tank (LG-1A) - Exhibit 232-1

Maximum / Potential Emissions

Emissions	Breathing Loss[a]	Working Loss[b]	Total VOM[c]	224 TMP	Benzene	EB	Hexane	POM	Toluene	Xylene	Total HAP
lb/hr[d]	0.024	2.933	2.957	0.02	0.03	0.003	0.05	0.01	0.04	0.01	0.17
ton/yr[e]	0.037	0.017	0.054	0.0004	0.000	0.0001	0.001	0.000	0.001	0.0003	0.003

[a]Hourly breathing loss emissions are based on breathing losses calculated for the month of July with RVP9 gasoline and divided by the 31x24 hours/month.

[b]Hourly working loss emissions are based on a maximum of one tank turnoverat the maximum filling rate using average July temperatures with RVP9 gasoline in St. Louis, MO.

[c]VOM emissions are estimated using TANKS 4.0.9d and conservatively assume RVP15 gasoline for October through April and RVP9 gasoline for May through September per EPA guidance at http://www.epa.gov/otaq/volatility.htm.

[d]Hourly emissions are calculated based on a weighted hourly average using the maximum filling rate of 50 gal/min.

[e]Annual emissions are based on a maximum throughput of 3,000 gal/year.

Typical Emissions

Emissions	Breathing Loss[f]	Working Loss[g]	Total VOM[h]	224 TMP	Benzene	EB	Hexane	POM	Toluene	Xylene	Total HAP
lb/hr	0.009	0.004	0.012	0.0001	0.0001	0.00001	0.0002	0.0001	0.0002	0.0001	0.001
ton/yr[i]	0.037	0.017	0.054	0.0004	0.0005	0.0001	0.0009	0.0003	0.0007	0.0003	0.003

[f]Hourly breathing loss emissions are based on breathing losses calculated on an annual basis.

[g]Hourly working loss emissions are calculated on an annual basis.

[h]VOM emissions are estimated using TANKS 4.0.9d and conservatively assume RVP15 gasoline is stored year round.

[i]Annual emissions are based on a maximum throughput of 3,000 gal/year.

Vapor profile for gasoline in weight percent[j]

224 TMP	Benzene	EB	Hexane	POM	Tolune	Xylene
0.80%	0.90%	0.10%	1.60%	0.50%	1.30%	0.50%

[j]HAP Speciation obtained from Table 4 of "Developing a Consistent Methodology to Calculate VOC and HAP Evaporative Emissions for Stage I and Stage II Operation at Gasoline Service Stations for the 1999 NEI (Draft v2.0). Prepared by Pacific Environmental Services, Inc

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

REQUEST TO OPERATE DURING STARTUP OF EQUIPMENT

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING STARTUP WOULD EXCEED EITHER THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH OPERATION DURING STARTUP IS BEING REQUESTED:

UNIT 1 BOILER

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU10A

5) DESCRIBE THE STARTUP PROCEDURE:

EACH GENERATING UNIT AT PRAIRIE STATEGENERATING STATION CONSISTS OF ONE TURBINE, ONE GENERATOR, AND ONE BOILER.

BOILER STARTS HAVE THREE BASIC SCENARIOS:

- HOT STARTUP: BOILER OFF-LINE LESS THAN 8 HOURS
- WARM STARTUP: BOILER OFFLINE 8-48 HOURS
- COLD STARTUP: BOILER OFFLINE GREATER THAN 48 HOURS

THE ABOVE BOILER CONDITIONS DETERMINE BOILER STARTUP TIMES AND STARTUP EMISSIONS. THE FOLLOW-UP SPECIFIES GENERAL STARTUP SEQUENCING:

1. IF NEEDED, AUXILIARY BOILER(S) IS STARTED TO PROVIDE START-UP STEAM.
2. THE FGD IS PLACED IN SERVICE PRIOR TO STARTING FANS.
3. FANS ARE STARTED TO ESTABLISH AIRFLOW IN THE BOILER TO PURGE ANY COMBUSTIBLE GASSES.
4. ONCE PURGE IS COMPLETE AND ADEQUATE AIRFLOW IS ESTABLISHED SIXTEEN LOWER NATURAL GAS IGNITORS ARE LIT TO RAISE TEMPERATURE AND PRESSURE.
5. PRIOR TO INJECTING COAL,
   - AMMONIA FLOW IS INITIATED INTO THE SCR WHEN FLUE GAS INLET TEMPERATURES MEET A MINIMUM OF APPROXIMATELY 620°F.
   - THE T/R SETS ARE ENERGIZED FOR WET AND DRY PRECIPITATORS.
   - IF NEEDED, POWDERED ACTIVATED CARBON INJECTION IS COMMENCED.
   - IF NEEDED, HYDRATED LIME INJECTION IS COMMENCED.
6. ONCE TARGET TEMPERATURES AND PRESSURES ARE REACHED, THEN COAL IS FED TO BOILER.
7. TURBINE-GENERATOR IS STARTED AND SYNCHRONIZED TO THE GRID UPON REACHING TURBINE STARTUP TEMPERATURES. SUBSEQUENT COAL PULVERIZERS ARE PLACED IN SERVICE BASED ON LOAD DEMAND .

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

PARTICULATE LIMITS AND OPACITY LIMITS MAY BE EXCEEDED WHEN STARTING THE INITIAL FAN PRIOR TO ENERGIZING THE PRECIPITATORS. DURING STARTUP FLY ASH MAY BECOME REENTRAINED IN THE FLUE GAS WHEN THE I.D. AND F.D. FANS ARE STARTED. DURING STARTUP OF A UTILITY BOILER, FACTORS THAT AFFECT NOX AND CO GENERATION CONTINUOUSLY CHANGE AS THE BOILER GOES THROUGH ITS OPERATING CYCLE. NITROGEN OXIDES AND CARBON MONOXIDE EMISSION LIMITS MAY ALSO BE EXCEEDED UNTIL THE BOILER REACHES NORMAL OPERATING OXYGEN AND TEMPERATURE LEVELS. DURING A STARTUP OPERATING CYCLE, THE FOLLOWING FACTORS MAY CHANGE AND AFFECT NOX AND CO FORMATION: OPERATING LOAD, EXCESS OXYGEN, BURNER SECONDARY AIR REGISTER SETTINGS. ALL THESE PARAMETERS EITHER DIRECTLY OR INDIRECTLY INFLUENCE THE NOX AND CO EMISSIONS FROM THE PRAIRIE STATE GENERATING STATION BOILER. ALTERING THE EXCESS OXYGEN LEVELS MAY CHANGE FLAME STOICHIOMETRY LOWERING LOCAL TEMPERATURES AND INCREASE FUEL AND AIR MIXING.

6) DESCRIBE MEASURES TAKEN TO MINIMIZE STARTUP EMISSIONS:

- FGD IS PLACED IN SERVICE PRIOR TO STARTING FANS.
- PRIOR TO INJECTING COAL:
  - AMMONIA FLOW IS INITIATED INTO THE SCR WHEN FLUE GAS INLET TEMPERATURES MEET A MINIMUM OF APPROXIMATELY 620°F.
  - THE T/R SETS ARE ENERGIZED FOR WET AND DRY PRECIPITATORS.
  - IF NEEDED, POWDERED ACTIVATED CARBON INJECTION IS COMMENCED.
  - IF NEEDED, HYDRATED LIME INJECTION IS COMMENCED.
- SLOW FAN RAMP RATE
- STABILIZE FLOW PRIOR TO STARTING NEXT FAN.
- ADJUST FIRES TO MAINTAIN EXCESS O_2 WITHIN DESIGNATED LIMITS.
- IF AUXILIARY BOILER IS REQUIRED FOR STARTUP, THEN OPERATION IS TERMINATED ONCE STEAM DEMAND CAN BE SATISFIED BY MAIN BOILER.

7) DESCRIBE MEASURES TAKEN TO MINIMIZE THE DURATION OF STARTUPS:

EACH BOILER HAS THREE STARTUP SCENARIOS, CLASSIFIED AS FOLLOWS:

BOILER STARTS BASIC SCENARIOS:	STARTUP TIME (FROM FAN STARTUP TO STABLE CONTROLLABLE EMISSIONS)
• HOT STARTUP: BOILER OFF-LINE LESS THAN 8 HOURS	APPROXIMATELY 4 HOURS
• WARM STARTUP: BOILER OFFLINE 8-48 HOURS	APPROXIMATELY 8 HOURS
• COLD STARTUP: BOILER OFFLINE GREATER THAN 48 HOURS	APPROXIMATELY 24 HOURS

DURATIONS OF STARTUPS ARE MINIMIZED, WHEN THE MAXIMUM RESIDUAL HEAT IS MAINTAINED IN THE BOILER AFTER SHUTDOWN.

OPERATING PROCEDURES REQUIRE THAT A SEQUENCE OF EVENTS BE FOLLOWED TO ENSURE THAT THE TURBINE, BOILERS, AND OTHER SELECTED EQUIPMENT ARE SAFELY BROUGHT UP TO OPERATING TEMPERATURES AND PRESSURES.

IGNITORS ARE KEPT IN GOOD WORKING CONDITION, AND TURBINE AND BOILER METAL TEMPERATURES ARE OBSERVED TO MAXIMIZE EFFICIENCY DURING STARTUPS.

8) DESCRIBE MEASURES TAKEN TO MINIMIZE THE FREQUENCY OF STARTUPS:

PSGC UNIT 1 IS EXPECTED TO BE BASE- LOADED UNIT THEREBY MINIMIZING STARTUPS ASSOCIATED WITH CYCLING AND PEAKING. WORK REQUIRING PLANT SHUTDOWNS WILL BE COORDINATED WITH SCHEDULED SHUTDOWNS AS MUCH AS FEASIBLE AND EQUIPMENT FAILURE REPAIRS WILL BE COORDINATED WITH PLANNED SHUTDOWNS. FORCED SHUTDOWNS WILL BE MINIMIZED THROUGH THE IMPLEMENTATION OF GOOD RELIABILITY PRACTICES.

BOILER STARTUPS ARE COSTLY OPERATIONS IN TERMS OF THE MAN-HOURS REQUIRED TO PREPARE A UNIT FOR STARTUP AND THEY INVOLVE SIGNIFICANT METALLURGICAL STRESSES ON MASSIVE PIECES OF EQUIPMENT. CONSEQUENTLY, THE STATION STRIVES TO PERFORM ALL THE WORK POSSIBLE DURING AN OUTAGE, SO THAT THE MAINTENANCE PERFORMED PER HOUR OF OUTAGE IS MAXIMIZED, AND UNNECESSARY OUTAGES CAN BE AVOIDED, THUS MINIMIZING STARTUPS AND THE CONCOMITANT EMISSIONS.

GOOD WATER QUALITY IS MAINTAINED AND GOOD OPERATIONS PRACTICES ARE FOLLOWED TO MINIMIZE TUBE LEAKS AND BOILER TUBE PLUGGAGE, THUS MINIMIZING THE NUMBER OF FORCED SHUTDOWNS AND STARTUPS.

9) IF THE ITEM OF EQUIPMENT IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 203-1):

	NAME	FLOW DIAGRAM DESIGNATION
a)	UNIT 1 BOILER	EU10A
b)		
c)		

APPLICABLE RULES

10) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING STARTUP:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR STARTUP.

11) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING STARTUP AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

PSD Permit Limits: CO – 0.12 lb/MMBtu; NO_X – 0.07 lb/MMBtu; PM – 0.015 lb/MMBtu; PM_{10} – 0.035 lb/MMBtu; SO_2 – 0.182 lb/MMBtu; VOM – 0.004 lb/MMBtu; H2SO4 Mist – 0.005 lb/MMBtu; Fluorides – 0.00026 lb/MMBtu

35 IAC 212.204 – PM <= 0.1 lb/MMBtu
35 IAC 212.122 – Opacity <= 20%
35 IAC 214.121 – SO_2 <= 1.2 lbs/MMBtu
35 IAC 217.121 – NO_X <= 0.7 lbs/MMBtu
35 IAC 216.121 – CO <= 200 ppm at 50% excess air
35 IAC Part 225 Subpart B – Hg <= 0.008 lb/GWh

EMISSIONS INFORMATION

12a) PROVIDE THE MAXIMUM AND TYPICAL DURATION OF A STARTUP (E.G., 2 HOURS):

MAXIMUM	TYPICAL
24 Hours	12 Hours

b) ARE EMISSIONS OCCURRING 100% OF THE TIME DURING THE STARTUP? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE MAXIMUM AND TYPICAL PERCENTAGE OF TIME DURING STARTUP THAT EMISSIONS WILL OCCUR:

MAXIMUM	TYPICAL
(%)	(%)

c) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME NEEDED FOR STARTUP:

BOILER CONDITIONS DETERMINE TIME NEEDED FOR STARTUP

	START-UP TIME
HOT STARTUP (BOILER OFF-LINE LESS THAN 8 HOURS)	8 HOURS
WARM STARTUP (BOILER OFF-LINE 8 - 48 HOURS)	12 HOURS
COLD STARTUP (BOILER OFF-LINE MORE THAN 48 HOURS)	24 HOURS

13) PROVIDE THE FREQUENCY OF STARTUPS (E.G., TWICE A YEAR):

3 STARTUPS PER YEAR

14) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED STARTUP, THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED STARTUP AND LABEL AS EXHIBIT 203-2.

REGULATED AIR POLLUTANT		STARTUP (LB/HR)	STARTUP (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX					
	TYPICAL					
	MAX					
	TYPICAL					
	MAX					
	TYPICAL					

*NOTE: DM = DETERMINATION METHOD -- 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION		
COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING STARTUP RELATIVE TO NORMAL OPERATION.		
15) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING STARTUP RELATIVE TO NORMAL OPERATION: N/A		
16) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
17) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
18) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
19) DISCHARGE HEIGHT ABOVE GRADE (FT):		
20) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
21) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
22) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
23) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):
24) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

25) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
26a) LATITUDE:	b) LONGITUDE:	
27a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Source Designation:
_____

REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

UNIT 1 BOILER

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU10A

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

BOILER 1 AND ASSOCIATED CONTROL EQUIPMENT

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EU10A, EC10A-2, 3, 4, 5, 6, 7

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS (cont):

BOILER AND AIR EMISSIONS CONTROL EQUIPMENT MALFUNCTIONS MAY CAUSE OPACITY, PARTICULATES, NO_X, SO_2, H_2SO_4, CO, AND MERCURY LIMITS TO BE EXCEEDED DURING NORMAL OPERATION OF A UTILITY BOILER, FACTORS THAT AFFECT NO_X AND CO CONTINUOUSLY CHANGE AS THE BOILER GOES THROUGH ITS DAILY OPERATING CYCLE. DURING A DAILY OPERATING CYCLE, THE FOLLOWING FACTORS MAY CHANGE AND AFFECT NO_X AND CO FORMATION: OPERATING LOAD, FIRING RATE, EXCESS OXYGEN, AND BURNER OPERATION.

7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

THE BOILER AND ITS CONTROL EQUIPMENT ARE INSPECTED REGULARLY AND MAINTENANCE IS PERFORMED TO PROVIDE PEAK OPERATION AT ALL TIMES. ALL OPERATORS ARE TRAINED ON NORMAL AND ABNORMAL OPERATING CONDITIONS AND TO BE PROACTIVE.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039 5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

- OPERATORS ARE TRAINED TO MONITOR OPERATIONS AND IDENTIFY ABNORMAL TRENDS OR CONDITIONS AND TO BE PROACTIVE WHEN MALFUNCTIONS OR BREAKDOWNS OCCUR.
- MALFUNCTIONS WHICH HAVE AFFECTED AIR EMISSIONS EQUIPMENT PERFORMANCE TO THE EXTENT THAT EMISSIONS COULD EXCEED THE STANDARD MUST BE RESOLVED SHORTLY AFTER INITIAL OCCURRENCE, EITHER BY CORRECTIVE OPERATING/MAINTENANCE ACTION, OR BY A REQUEST TO THE REGIONAL TRANSMISSION ORGANIZATION (RTO) FOR A LOAD REDUCTION. OPERATION AT REDUCED LOADS SHOULD REDUCE EMISSIONS DUE TO DECREASED FUEL CONSUMPTION.
- EQUIPMENT IS MAINTAINED IN PEAK OPERATING CONDITION.

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

- THE DEGRADATION OF PERFORMANCE DURING A PRECIPITATOR MALFUNCTION IS A FUNCTION OF THE TOTAL NUMBER OF PRECIPITATOR SECTIONS AFFECTED, WHETHER THOSE SECTIONS ARE EXPERIENCING FULL OR PARTIAL OUTAGES, AND THE RELATIVE LOCATIONS OF THE SECTIONS WITHIN THE GAS STREAM.
- DEGRADATION OF THE PERFORMANCE OF THE FGD AND SCR IS MINIMIZED WITH REDUNDANCY OF CRITICAL EQUIPMENT
- CONTINUOUS EMISSIONS MONITORS HAVE BEEN INSTALLED TO MONITOR EMISSIONS FROM THE STACK. THE DATA ACQUIRED BY THE MONITORS ARE DISPLAYED AND RECORDED IN THE BOILER CONTROL ROOMS. OPERATORS ARE TRAINED TO MONITOR OPERATIONS AND IDENTIFY ABNORMAL TRENDS OR CONDITIONS AND TO BE PROACTIVE WHEN MALFUNCTIONS OR BREAKDOWNS OCCUR.
- MALFUNCTIONS WHICH HAVE AFFECTED AIR EMISSIONS EQUIPMENT PERFORMANCE TO THE EXTENT THAT EMISSIONS COULD EXCEED THE STANDARD MUST BE RESOLVED SHORTLY AFTER INITIAL OCCURRENCE, EITHER BY CORRECTIVE OPERATING/MAINTENANCE ACTION, OR BY A REQUEST TO THE REGIONAL TRANSMISSION ORGANIZATION (RTO) FOR A LOAD REDUCTION. OPERATION AT REDUCED LOADS SHOULD REDUCE EMISSIONS DUE TO DECREASED FUEL CONSUMPTION.

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☒ YES ☐ NO

IF YES, EXPLAIN:

FREQUENT SHUTDOWNS OF THE BOILER AND/OR SUPPORT EQUIPMENT INDUCE ADDITIONAL THERMAL STRESSES WHICH MAY RESULT IN PREMATURE FAILURE AND INCREASE THE CHANCE OF INJURY TO PERSONNEL. THE BOILER CANNOT OPERATE WITHOUT THE FGD ONLINE WITHOUT CAUSING DAMAGE TO THE EQUIPMENT.

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN:

IN ORDER THAT RELIABLE ELECTRIC SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION OR DISTRIBUTION. THAT RESERVE CAPACITY ALSO PERMITS PSGC TO ACCOMPLISH PERIODIC MAINTENANCE OF ITS EQUIPMENT. IF SYSTEM CONDITIONS DO NOT ALLOW FOR IMMEDIATE SHUTDOWN OF THE UNIT DURING A MALFUNCTION OR BREAKDOWN, THE UNIT WILL CONTINUE TO OPERATE UNTIL SYSTEM CONDITIONS ALLOW FOR A SHUTDOWN. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	UNIT 1 BOILER	EU10A
ii)	SCR, HL INJECTION, PAC INJECTION, DRY ESP, WFGD, WET ESP	EC10A-2, 3, 4, 5, 6, 7

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

N/A

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

PSD Permit Limits: CO – 0.12 lb/MMBtu; NO_X – 0.07 lb/MMBtu; PM – 0.015 lb/MMBtu; PM_{10} – 0.035 lb/MMBtu; SO_2 – 0.182 lb/MMBtu; VOM – 0.004 lb/MMBtu; H2SO4 Mist – 0.005 lb/MMBtu; Fluorides – 0.00026 lb/MMBtu

35 IAC 212.204 – PM <= 0.1 lb/MMBtu
35 IAC 212.122 – Opacity <= 20%
35 IAC 214.121 – SO_2 <= 1.2 lbs/MMBtu
35 IAC 217.121 – NO_X <= 0.7 lbs/MMBtu
35 IAC 216.121 – CO <= 200 ppm at 50% excess air
35 IAC Part 225 Subpart B – Hg <= 0.008 lb/GWh

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
3 WEEKS	4 HOURS

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

THE LENGTH OF TIME OPERATION WOULD CONTINUE WITH MALFUNCTIONING EQUIPMENT DEPENDS TO A LARGE EXTENT ON THE TIME OF OCCURRENCE, THE AMOUNT OF OTHER OPERATING CAPACITY AVAILABLE AT THE TIME OF THE FAILURE, THE ANTICIPATED SHORT-TERM LOAD REQUIREMENTS OF THE SYSTEM, SEVERITY OF THE MALFUNCTION, OPACITY LEVELS AND LOAD VS. COMS/CEMS READINGS. ONLY AFTER THESE FACTORS HAVE BEEN EVALUATED CAN A DECISION BE MADE AS TO WHEN A GENERATING UNIT CAN BE TAKEN OFF SYSTEM TO REPAIR A EMISSIONS CONTROL OR BOILER EQUIPMENT.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD -- 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION.

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

N/A

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
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REQUEST TO OPERATE DURING STARTUP OF EQUIPMENT

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING STARTUP WOULD EXCEED EITHER THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH OPERATION DURING STARTUP IS BEING REQUESTED:

UNIT 2 BOILER

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU10B

5) DESCRIBE THE STARTUP PROCEDURE:

EACH GENERATING UNIT AT PRAIRIE STATEGENERATING STATION CONSISTS OF ONE TURBINE, ONE GENERATOR, AND ONE BOILER.

BOILER STARTS HAVE THREE BASIC SCENARIOS:

- HOT STARTUP: BOILER OFF-LINE LESS THAN 8 HOURS
- WARM STARTUP: BOILER OFFLINE 8-48 HOURS
- COLD STARTUP: BOILER OFFLINE GREATER THAN 48 HOURS

THE ABOVE BOILER CONDITIONS DETERMINE BOILER STARTUP TIMES AND STARTUP EMISSIONS. THE FOLLOW-UP SPECIFIES GENERAL STARTUP SEQUENCING:

1. IF NEEDED, AUXILIARY BOILER(S) IS STARTED TO PROVIDE START-UP STEAM.
2. THE FGD IS PLACED IN SERVICE PRIOR TO STARTING FANS.
3. FANS ARE STARTED TO ESTABLISH AIRFLOW IN THE BOILER TO PURGE ANY COMBUSTIBLE GASSES.
4. ONCE PURGE IS COMPLETE AND ADEQUATE AIRFLOW IS ESTABLISHED SIXTEEN LOWER NATURAL GAS IGNITORS ARE LIT TO RAISE TEMPERATURE AND PRESSURE.
5. PRIOR TO INJECTING COAL,
   - AMMONIA FLOW IS INITIATED INTO THE SCR WHEN FLUE GAS INLET TEMPERATURES MEET A MINIMUM OF APPROXIMATELY 620 F.
   - THE T/R SETS ARE ENERGIZED FOR WET AND DRY PRECIPITATORS.
   - IF NEEDED, POWDERED ACTIVATED CARBON INJECTION IS COMMENCED.
   - IF NEEDED, HYDRATED LIME INJECTION IS COMMENCED.
6. ONCE TARGET TEMPERATURES AND PRESSURES ARE REACHED, THEN COAL IS FED TO BOILER.
7. TURBINE-GENERATOR IS STARTED AND SYNCHRONIZED TO THE GRID UPON REACHING TURBINE STARTUP TEMPERATURES. SUBSEQUENT COAL PULVERIZERS ARE PLACED IN SERVICE BASED ON LOAD DEMAND .

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE
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PARTICULATE LIMITS AND OPACITY LIMITS MAY BE EXCEEDED WHEN STARTING THE INITIAL FAN PRIOR TO ENERGIZING THE PRECIPITATORS. DURING STARTUP FLY ASH MAY BECOME REENTRAINED IN THE FLUE GAS WHEN THE I.D. AND F.D. FANS ARE STARTED. DURING STARTUP OF A UTILITY BOILER, FACTORS THAT AFFECT NOX AND CO GENERATION CONTINUOUSLY CHANGE AS THE BOILER GOES THROUGH ITS OPERATING CYCLE. NITROGEN OXIDES AND CARBON MONOXIDE EMISSION LIMITS MAY ALSO BE EXCEEDED UNTIL THE BOILER REACHES NORMAL OPERATING OXYGEN AND TEMPERATURE LEVELS. DURING A STARTUP OPERATING CYCLE, THE FOLLOWING FACTORS MAY CHANGE AND AFFECT NOX AND CO FORMATION: OPERATING LOAD, EXCESS OXYGEN, BURNER SECONDARY AIR REGISTER SETTINGS. ALL THESE PARAMETERS EITHER DIRECTLY OR INDIRECTLY INFLUENCE THE NOX AND CO EMISSIONS FROM THE PRAIRIE STATE GENERATING STATION BOILER. ALTERING THE EXCESS OXYGEN LEVELS MAY CHANGE FLAME STOICHIOMETRY LOWERING LOCAL TEMPERATURES AND INCREASE FUEL AND AIR MIXING.

6) DESCRIBE MEASURES TAKEN TO MINIMIZE STARTUP EMISSIONS:

- FGD IS PLACED IN SERVICE PRIOR TO STARTING FANS.
- PRIOR TO INJECTING COAL:
  - AMMONIA FLOW IS INITIATED INTO THE SCR WHEN FLUE GAS INLET TEMPERATURES MEET A MINIMUM OF APPROXIMATELY 620 F.
  - THE T/R SETS ARE ENERGIZED FOR WET AND DRY PRECIPITATORS.
  - IF NEEDED, POWDERED ACTIVATED CARBON INJECTION IS COMMENCED.
  - IF NEEDED, HYDRATED LIME INJECTION IS COMMENCED.
- SLOW FAN RAMP RATE
- STABILIZE FLOW PRIOR TO STARTING NEXT FAN.
- ADJUST FIRES TO MAINTAIN EXCESS O_2 WITHIN DESIGNATED LIMITS.
- IF AUXILIARY BOILER IS REQUIRED FOR STARTUP, THEN OPERATION IS TERMINATED ONCE STEAM DEMAND CAN BE SATISFIED BY MAIN BOILER.

7) DESCRIBE MEASURES TAKEN TO MINIMIZE THE DURATION OF STARTUPS:

EACH BOILER HAS THREE STARTUP SCENARIOS, CLASSIFIED AS FOLLOWS:

BOILER STARTS BASIC SCENARIOS:	STARTUP TIME (FROM FAN STARTUP TO STABLE CONTROLLABLE EMISSIONS)
• HOT STARTUP: BOILER OFF-LINE LESS THAN 8 HOURS	APPROXIMATELY 4 HOURS
• WARM STARTUP: BOILER OFFLINE 8-48 HOURS	APPROXIMATELY 8 HOURS
• COLD STARTUP: BOILER OFFLINE GREATER THAN 48 HOURS	APPROXIMATELY 24 HOURS

DURATIONS OF STARTUPS ARE MINIMIZED, WHEN THE MAXIMUM RESIDUAL HEAT IS MAINTAINED IN THE BOILER AFTER SHUTDOWN.

OPERATING PROCEDURES REQUIRE THAT A SEQUENCE OF EVENTS BE FOLLOWED TO ENSURE THAT THE TURBINE, BOILERS, AND OTHER SELECTED EQUIPMENT ARE SAFELY BROUGHT UP TO OPERATING TEMPERATURES AND PRESSURES.

IGNITORS ARE KEPT IN GOOD WORKING CONDITION, AND TURBINE AND BOILER METAL TEMPERATURES ARE OBSERVED TO MAXIMIZE EFFICIENCY DURING STARTUPS.

8) DESCRIBE MEASURES TAKEN TO MINIMIZE THE FREQUENCY OF STARTUPS:

PSGC UNIT 1 IS EXPECTED TO BE BASE- LOADED UNIT THEREBY MINIMIZING STARTUPS ASSOCIATED WITH CYCLING AND PEAKING. WORK REQUIRING PLANT SHUTDOWNS WILL BE COORDINATED WITH SCHEDULED SHUTDOWNS AS MUCH AS FEASIBLE AND EQUIPMENT FAILURE REPAIRS WILL BE COORDINATED WITH PLANNED SHUTDOWNS. FORCED SHUTDOWNS WILL BE MINIMIZED THROUGH THE IMPLEMENTATION OF GOOD RELIABILITY PRACTICES.

BOILER STARTUPS ARE COSTLY OPERATIONS IN TERMS OF THE MAN-HOURS REQUIRED TO PREPARE A UNIT FOR STARTUP AND THEY INVOLVE SIGNIFICANT METALLURGICAL STRESSES ON MASSIVE PIECES OF EQUIPMENT. CONSEQUENTLY, THE STATION STRIVES TO PERFORM ALL THE WORK POSSIBLE DURING AN OUTAGE, SO THAT THE MAINTENANCE PERFORMED PER HOUR OF OUTAGE IS MAXIMIZED, AND UNNECESSARY OUTAGES CAN BE AVOIDED, THUS MINIMIZING STARTUPS AND THE CONCOMITANT EMISSIONS.

GOOD WATER QUALITY IS MAINTAINED AND GOOD OPERATIONS PRACTICES ARE FOLLOWED TO MINIMIZE TUBE LEAKS AND BOILER TUBE PLUGGAGE, THUS MINIMIZING THE NUMBER OF FORCED SHUTDOWNS AND STARTUPS.

9) IF THE ITEM OF EQUIPMENT IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 203-1):

	NAME	FLOW DIAGRAM DESIGNATION
a)	UNIT 2 BOILER	EU10B
b)		
c)		

APPLICABLE RULES

10) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING STARTUP:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR STARTUP.

11) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING STARTUP AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

PSD Permit Limits: CO – 0.12 lb/MMBtu; NO_X – 0.07 lb/MMBtu; PM – 0.015 lb/MMBtu; PM_{10} – 0.035 lb/MMBtu; SO_2 – 0.182 lb/MMBtu; VOM – 0.004 lb/MMBtu; H2SO4 Mist – 0.005 lb/MMBtu; Fluorides – 0.00026 lb/MMBtu

35 IAC 212.204 – PM <= 0.1 lb/MMBtu
35 IAC 212.122 – Opacity <= 20%
35 IAC 214.121 – SO_2 <= 1.2 lbs/MMBtu
35 IAC 217.121 – NO_X <= 0.7 lbs/MMBtu
35 IAC 216.121 – CO <= 200 ppm at 50% excess air
35 IAC Part 225 Subpart B – Hg <= 0.008 lb/GWh

EMISSIONS INFORMATION

12a) PROVIDE THE MAXIMUM AND TYPICAL DURATION OF A STARTUP (E.G., 2 HOURS):

MAXIMUM	TYPICAL
24 Hours	12 Hours

b) ARE EMISSIONS OCCURRING 100% OF THE TIME DURING THE STARTUP? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE MAXIMUM AND TYPICAL PERCENTAGE OF TIME DURING STARTUP THAT EMISSIONS WILL OCCUR:

MAXIMUM	TYPICAL
(%)	(%)

c) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME NEEDED FOR STARTUP:

BOILER CONDITIONS DETERMINE TIME NEEDED FOR STARTUP

	START-UP TIME
HOT STARTUP (BOILER OFF-LINE LESS THAN 8 HOURS)	8 HOURS
WARM STARTUP (BOILER OFF-LINE 8 - 48 HOURS)	12 HOURS
COLD STARTUP (BOILER OFF-LINE MORE THAN 48 HOURS)	24 HOURS

13) PROVIDE THE FREQUENCY OF STARTUPS (E.G., TWICE A YEAR):

3 STARTUPS PER YEAR

14) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED STARTUP, THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED STARTUP AND LABEL AS EXHIBIT 203-2.

REGULATED AIR POLLUTANT		STARTUP (LB/HR)	STARTUP (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD -- 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION		
COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING STARTUP RELATIVE TO NORMAL OPERATION.		
15) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING STARTUP RELATIVE TO NORMAL OPERATION: N/A		
16) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
17) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS		
18) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
19) DISCHARGE HEIGHT ABOVE GRADE (FT):		
20) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
21) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
22) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
23) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):
24) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

25) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:	
NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
26a) LATITUDE:	b) LONGITUDE:	
27a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

UNIT 2 BOILER

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU10B

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

BOILER 2 AND ASSOCIATED CONTROL EQUIPMENT

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EU10B, EC10B-2, 3, 4, 5, 6, 7

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS (cont):

BOILER AND AIR EMISSIONS CONTROL EQUIPMENT MALFUNCTIONS MAY CAUSE OPACITY, PARTICULATES, NO_X, SO_2, H_2SO_4, CO, AND MERCURY LIMITS TO BE EXCEEDED DURING NORMAL OPERATION OF A UTILITY BOILER, FACTORS THAT AFFECT NO_X AND CO CONTINUOUSLY CHANGE AS THE BOILER GOES THROUGH ITS DAILY OPERATING CYCLE. DURING A DAILY OPERATING CYCLE, THE FOLLOWING FACTORS MAY CHANGE AND AFFECT NO_X AND CO FORMATION: OPERATING LOAD, FIRING RATE, EXCESS OXYGEN, AND BURNER OPERATION.

7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

THE BOILER AND ITS CONTROL EQUIPMENT ARE INSPECTED REGULARLY AND MAINTENANCE IS PERFORMED TO PROVIDE PEAK OPERATION AT ALL TIMES. ALL OPERATORS ARE TRAINED ON NORMAL AND ABNORMAL OPERATING CONDITIONS AND TO BE PROACTIVE.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

- OPERATORS ARE TRAINED TO MONITOR OPERATIONS AND IDENTIFY ABNORMAL TRENDS OR CONDITIONS AND TO BE PROACTIVE WHEN MALFUNCTIONS OR BREAKDOWNS OCCUR.
- MALFUNCTIONS WHICH HAVE AFFECTED AIR EMISSIONS EQUIPMENT PERFORMANCE TO THE EXTENT THAT EMISSIONS COULD EXCEED THE STANDARD MUST BE RESOLVED SHORTLY AFTER INITIAL OCCURRENCE, EITHER BY CORRECTIVE OPERATING/MAINTENANCE ACTION, OR BY A REQUEST TO THE REGIONAL TRANSMISSION ORGANIZATION (RTO) FOR A LOAD REDUCTION. OPERATION AT REDUCED LOADS SHOULD REDUCE EMISSIONS DUE TO DECREASED FUEL CONSUMPTION.
- EQUIPMENT IS MAINTAINED IN PEAK OPERATING CONDITION.

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

- THE DEGRADATION OF PERFORMANCE DURING A PRECIPITATOR MALFUNCTION IS A FUNCTION OF THE TOTAL NUMBER OF PRECIPITATOR SECTIONS AFFECTED, WHETHER THOSE SECTIONS ARE EXPERIENCING FULL OR PARTIAL OUTAGES, AND THE RELATIVE LOCATIONS OF THE SECTIONS WITHIN THE GAS STREAM.
- DEGRADATION OF THE PERFORMANCE OF THE FGD AND SCR IS MINIMIZED WITH REDUNDANCY OF CRITICAL EQUIPMENT
- CONTINUOUS EMISSIONS MONITORS HAVE BEEN INSTALLED TO MONITOR EMISSIONS FROM THE STACK. THE DATA ACQUIRED BY THE MONITORS ARE DISPLAYED AND RECORDED IN THE BOILER CONTROL ROOMS. OPERATORS ARE TRAINED TO MONITOR OPERATIONS AND IDENTIFY ABNORMAL TRENDS OR CONDITIONS AND TO BE PROACTIVE WHEN MALFUNCTIONS OR BREAKDOWNS OCCUR.
- MALFUNCTIONS WHICH HAVE AFFECTED AIR EMISSIONS EQUIPMENT PERFORMANCE TO THE EXTENT THAT EMISSIONS COULD EXCEED THE STANDARD MUST BE RESOLVED SHORTLY AFTER INITIAL OCCURRENCE, EITHER BY CORRECTIVE OPERATING/MAINTENANCE ACTION, OR BY A REQUEST TO THE REGIONAL TRANSMISSION ORGANIZATION (RTO) FOR A LOAD REDUCTION. OPERATION AT REDUCED LOADS SHOULD REDUCE EMISSIONS DUE TO DECREASED FUEL CONSUMPTION.

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☒ YES ☐ NO

IF YES, EXPLAIN:

FREQUENT SHUTDOWNS OF THE BOILER AND/OR SUPPORT EQUIPMENT INDUCE ADDITIONAL THERMAL STRESSES WHICH MAY RESULT IN PREMATURE FAILURE AND INCREASE THE CHANCE OF INJURY TO PERSONNEL. THE BOILER CANNOT OPERATE WITHOUT THE FGD ONLINE WITHOUT CAUSING DAMAGE TO THE EQUIPMENT.

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN.

IN ORDER THAT RELIABLE ELECTRIC SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION OR DISTRIBUTION. THAT RESERVE CAPACITY ALSO PERMITS PSGC TO ACCOMPLISH PERIODIC MAINTENANCE OF ITS EQUIPMENT. IF SYSTEM CONDITIONS DO NOT ALLOW FOR IMMEDIATE SHUTDOWN OF THE UNIT DURING A MALFUNCTION OR BREAKDOWN, THE UNIT WILL CONTINUE TO OPERATE UNTIL SYSTEM CONDITIONS ALLOW FOR A SHUTDOWN. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	UNIT 2 BOILER	EU10B
ii)	SCR, HL INJECTION, PAC INJECTION, DRY ESP, WFGD, WET ESP	EC10B-2, 3, 4, 5, 6, 7

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

N/A

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

PSD Permit Limits: CO – 0.12 lb/MMBtu; NO_X – 0.07 lb/MMBtu; PM – 0.015 lb/MMBtu; PM_{10} – 0.035 lb/MMBtu; SO_2 – 0.182 lb/MMBtu; VOM – 0.004 lb/MMBtu; H2SO4 Mist – 0.005 lb/MMBtu; Fluorides – 0.00026 lb/MMBtu

35 IAC 212.204 – PM <= 0.1 lb/MMBtu
35 IAC 212.122 – Opacity <= 20%
35 IAC 214.121 – SO_2 <= 1.2 lbs/MMBtu
35 IAC 217.121 – NO_X <= 0.7 lbs/MMBtu
35 IAC 216.121 – CO <= 200 ppm at 50% excess air
35 IAC Part 225 Subpart B – Hg <= 0.008 lb/GWh

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
3 WEEKS	4 HOURS

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

THE LENGTH OF TIME OPERATION WOULD CONTINUE WITH MALFUNCTIONING EQUIPMENT DEPENDS TO A LARGE EXTENT ON THE TIME OF OCCURRENCE, THE AMOUNT OF OTHER OPERATING CAPACITY AVAILABLE AT THE TIME OF THE FAILURE, THE ANTICIPATED SHORT-TERM LOAD REQUIREMENTS OF THE SYSTEM, SEVERITY OF THE MALFUNCTION, OPACITY LEVELS AND LOAD VS. COMS/CEMS READINGS. ONLY AFTER THESE FACTORS HAVE BEEN EVALUATED CAN A DECISION BE MADE AS TO WHEN A GENERATING UNIT CAN BE TAKEN OFF SYSTEM TO REPAIR A EMISSIONS CONTROL OR BOILER EQUIPMENT.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD -- 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION.

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

N/A

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 03/15/2011

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

Coal Handling Transfer Points

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU104, EU105-1 through 5, EU102B-2, EU16B, EU49-2, EU1-50B-1 through 4, EU2-1 and 2

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

CHUTES WITH FOGGING AND DUST COLLECTOR CONTROL EQUIPMENT

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EC104, EC105B, EC102B-2, EC16B, EC49-2, EC1/50B, EC2

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS (cont):

LOSS OF PRESSURE TO WATER SPRAY SYSTEM, IMPELLER FAN MOTOR MALFUNCTION, LOSS OF AIR SUPPLY

BROKEN BAGS, FAN PROBLEMS, ELECTRICAL PROBLEMS, COLLECTION PROBLEMS, ROTARY FEEDER VALVE PROBLEMS AND FIRES

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

PERIODIC MAINTENANCE AND INSPECTION OF WATER SPRAY SYSTEM AND CONTROL PANEL; PERIODIC MAINTENANCE AND INSPECTION OF COMPRESSORS

PERIODIC MAINTENANCE OF DUST COLLECTOR

MONITORING COAL AND LIMESTONE HANDLING TRANSFER SYSTEM PARAMETERS

VISUAL EMISSION READINGS

8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

REPAIR WATER SPRAY SYSTEM AND DUST COLLECTOR WHEN NOT RUNNING COAL/LIMESTONE

SHUTDOWN WATER SPRAY SYSTEM AND DUST COLLECTORS DURING THE MALFUNCTION.

PERIODIC MAINTENANCE AND INSPECTION OF WATER SPRAY SYSTEM AND DUST COLLECTOR

REPAIR AS SOON AS PRACTICABLE

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

CHANGEOUT BAGS IN MALFUNCTIONING AREA OF DUST COLLECTOR AND CONTINUING FOGGING WHERE POSSIBLE; INCREASE SUPPRESSION IN AREAS PRIOR TO MALFUNCTIONING; VACUUM DUST FROM BOTTOM OF DUST COLLECTOR

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☐ YES ☒ NO

IF YES, EXPLAIN:

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN:

IF NOT ALLOWED TO CONTINUE OPERATION DURING A MALFUNCTION OR BREAKDOWN IT WOULD BE NECESSARY TO SHUT DOWN THE GENERATING EQUIPMENT THUS SERVED. CONSEQUENTLY, THE REGIONAL TRANSMISSION ORGANIZATION'S INABILITY TO RESPOND TO UNEXPECTED DEMANDS WOULD JEOPARDIZE THE RELIABILITY OF ELECTRICAL SERVICE.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

IN ORDER THAT RELIABLE ELECTRICAL SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION, OR DISTRIBUTION. IF RESERVE CAPACITY IS NOT AVAILABLE, MALFUNCTIONS OR BREAKDOWN REPAIRS MAY BE DELAYED. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	Material Handling Transfer Points	EU104, EU105-1 through 5, EU102B-2, EU16B, EU49-2, EU1-50B-1 through 4, EU2-1/2, EU17, EU58, EU75A, and EU75B
ii)	Material Handling Belts	MC1, MC3, MC4, MC7, MC8, MC11, C-2, C-5A, C-5B, C-6A, C-6B, LS-1

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

Not Available

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

IAC 212.123(a) (OPACITY) < = 30%

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
4 WEEKS	1 WEEK

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

ALTHOUGH SOME REPAIRS (SUCH AS ELECTRICAL PROBLEMS) MAY BE MADE PROMPTLY FOLLOWING DIAGNOSIS OF THE PROBLEM, SOME MECHANICAL MALFUNCTIONS REQUIRE THAT THE UNIT BE TAKEN OUT OF SERVICE TO PROVIDE INTERNAL ACCESS TO THE DEVICE. CONSEQUENTLY, REPAIRS ARE TYPICALLY PERFORMED DURING FORCED OR PLANNED OUTAGES IF ANTICIPATED SYSTEM LOADS DO NOT REQUIRE OPERATION OF THE AFFECTED SYSTEM AT THAT TIME.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD -- 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE, AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION.

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

N/A

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
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Page _____ of _____
Source Designation:
_____

REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

COAL CRUSHING UNITS 1 AND 2

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU44/45-C1 and EU44/45-C2

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

CRUSHERS 1 AND 2 DUST COLLECTORS

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EC44/45

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS:

BROKEN BAGS, FAN PROBLEMS, ELECTRICAL PROBLEMS, COLLECTION PROBLEMS, DUST COLLECTOR ROTARY FEED VALVE PROBLEMS, AND FIRES

7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

PERIODIC MAINTENANCE AND INSPECTION OF BAGHOUSES

MONITORING COAL CRUSHER SYSTEM PARAMETERS

VISUAL EMISSION READINGS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

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8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

REPAIR BAGHOUSES WHEN NOT RUNNING COAL

SHUTDOWN BAGHOUSES DURING THE MALFUNCTION

PERIODIC MAINTENANCE AND INSPECTION OF BAGHOUSE

REPAIR AS SOON AS PRACTICABLE

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

SHUT DOWN THE BAGFILTER

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☐ YES ☒ NO

IF YES, EXPLAIN:

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN:

IF NOT ALLOWED TO CONTINUE OPERATION DURING A MALFUNCTION OR BREAKDOWN IT WOULD BE NECESSARY TO SHUT DOWN THE GENERATING EQUIPMENT THUS SERVED. CONSEQUENTLY, THE REGIONAL TRANSMISSION ORGANIZATION'S INABILITY TO RESPOND TO UNEXPECTED DEMANDS WOULD JEOPARDIZE THE RELIABILITY OF ELECTRICAL SERVICE.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

IN ORDER THAT RELIABLE ELECTRICAL SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION, OR DISTRIBUTION. IF RESERVE CAPACITY IS NOT AVAILABLE, MALFUNCTIONS OR BREAKDOWN REPAIRS MAY BE DELAYED. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	COAL PROCESSING EQUIPMENT	EU44/45-C1 and EU44/45-C2
ii)	COAL HANDLING EQUIPMENT	EU44/45-1 through 14

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

N/A

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

IAC 212.123(a) (OPACITY) < = 30%

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
4 WEEKS	1 WEEK

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

ALTHOUGH SOME REPAIRS (SUCH AS ELECTRICAL PROBLEMS) MAY BE MADE PROMPTLY FOLLOWING DIAGNOSIS OF THE PROBLEM, SOME MECHANICAL MALFUNCTIONS MAY REQUIRE THAT THE UNIT BE TAKEN OUT OF SERVICE TO PROVIDE INTERNAL ACCESS TO THE DEVICE. THUS, REPAIRS ARE TYPICALLY PERFORMED DURING FORCED OR PLANNED OUTAGES IF ANTICIPATED SYSTEM LOADS DO NOT REQUIRE OPERATION OF THE AFFECTED SYSTEM AT THAT TIME.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD – 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

N/A

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Revision #: _____
Date: 12/27/02
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Source Designation:
_____POWFUG_____

REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
03/15/2011

3) SOURCE ID NO. (IF KNOWN):
189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

UNIT 1 FLY ASH SILO

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU14A

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

UNIT 1 FLY ASH SILO BIN VENT FILTERS

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EC14A

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS:

BROKEN BAGS, FAN PROBLEMS, ELECTRICAL PROBLEMS, AND COLLECTION PROBLEMS

7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

PERIODIC MAINTENANCE AND INSPECTION OF BIN VENT FILTER.

MONITORING OF FLY ASH SYSTEM PARAMETERS VIA PLC.

VISUAL EMISSION READINGS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

REPAIR BIN VENT FILTER DURING A UNIT 1 FLY ASH SILO OUTAGE OR SHUTDOWN BIN VENT FILTER DURING THE MALFUNCTION

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

SHUT DOWN THE BIN VENT FILTER

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☐ YES ☒ NO

IF YES, EXPLAIN:

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN:

IF NOT ALLOWED TO CONTINUE OPERATION DURING A MALFUNCTION OR BREAKDOWN IT WOULD BE NECESSARY TO SHUT DOWN THE GENERATING EQUIPMENT THUS SERVED. CONSEQUENTLY, THE REGIONAL TRANSMISSION ORGANIZATION'S INABILITY TO RESPOND TO UNEXPECTED DEMANDS WOULD JEOPARDIZE THE RELIABILITY OF ELECTRICAL SERVICE.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

IN ORDER THAT RELIABLE ELECTRICAL SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION, OR DISTRIBUTION. IF RESERVE CAPACITY IS NOT AVAILABLE, MALFUNCTIONS OR BREAKDOWN REPAIRS MAY BE DELAYED. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	UNIT 1 FLY ASH SILO	EU14A
ii)		

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

N/A

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

IAC 212.123 (a) (Opacity) <= 30%

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
4 WEEKS	1 WEEK

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

ALTHOUGH SOME REPAIRS (SUCH AS ELECTRICAL PROBLEMS) MAY BE MADE PROMPTLY FOLLOWING DIAGNOSIS OF THE PROBLEM, SOME MECHANICAL MALFUNCTIONS MAY REQUIRE THAT THE UNIT BE TAKEN OUT OF SERVICE TO PROVIDE INTERNAL ACCESS TO THE DEVICE. CONSEQUENTLY, REPAIRS ARE TYPICALLY PERFORMED DURING FORCED OR PLANNED OUTAGES IF ANTICIPATED SYSTEM LOADS DO NOT REQUIRE OPERATION OF THE AFFECTED SYSTEM AT THAT TIME.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD – 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION.

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

TBD

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: 12/27/02
Page ____64___ of ___102__
Source Designation: _____POWFUG_____

REQUEST TO CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

NOTE: THIS FORM MUST BE COMPLETED WHEN THE EMISSIONS DURING SUCH PERIOD WOULD EXCEED THE ALLOWABLE LIMIT PURSUANT TO AN APPLICABLE REQUIREMENT, OR THE ALLOWABLE LIMIT AS ESTABLISHED BY A PROPOSED PERMIT CONDITION.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
03/15/2011	189808AAB

GENERAL INFORMATION

4a) IDENTIFY THE EMISSION UNIT(S) OR PROCESS FOR WHICH CONTINUED OPERATION DURING A MALFUNCTION OR BREAKDOWN IS BEING REQUESTED:

UNIT 2 FLY ASH SILO

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THE UNIT(S) OR PROCESS:

EU14B

5a) WHAT ITEM OF EQUIPMENT(S) IS ANTICIPATED TO MALFUNCTION OR BREAKDOWN?

UNIT 2 FLY ASH SILO BIN VENT FILTERS

b) PROVIDE THE FLOW DIAGRAM DESIGNATION OF THIS EQUIPMENT(S):

EC14B

6) EXPLAIN THE NATURE (I.E., TYPE AND CAUSE) OF ANTICIPATED MALFUNCTIONS OR BREAKDOWNS:

BROKEN BAGS, FAN PROBLEMS, ELECTRICAL PROBLEMS, AND COLLECTION PROBLEMS

7) EXPLAIN WHAT MEASURES ARE TAKEN TO PREVENT SUCH MALFUNCTIONS OR BREAKDOWNS FROM OCCURRING:

PERIODIC MAINTENANCE AND INSPECTION OF BIN VENT FILTER.

MONITORING OF FLY ASH SYSTEM PARAMETERS VIA PLC.

VISUAL EMISSION READINGS

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE

8) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE DURATION OF A MALFUNCTION OR BREAKDOWN:

REPAIR BIN VENT FILTER DURING A UNIT 1 FLY ASH SILO OUTAGE OR SHUTDOWN BIN VENT FILTER DURING THE MALFUNCTION

9) DESCRIBE ALL MEASURES TAKEN TO MINIMIZE THE QUANTITY OF EMISSIONS DURING MALFUNCTION OR BREAKDOWN:

SHUT DOWN THE BIN VENT FILTER

10a) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN CAUSE OR TEND TO CAUSE INJURY TO PERSONS OR SEVERE DAMAGE TO EQUIPMENT? ☐ YES ☒ NO

IF YES, EXPLAIN:

b) WOULD DISCONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING SUCH MALFUNCTION OR BREAKDOWN PREVENT THE APPLICANT FROM PROVIDING AN ESSENTIAL SERVICE TO THE PUBLIC? ☒ YES ☐ NO

IF YES, EXPLAIN:

IF NOT ALLOWED TO CONTINUE OPERATION DURING A MALFUNCTION OR BREAKDOWN IT WOULD BE NECESSARY TO SHUT DOWN THE GENERATING EQUIPMENT THUS SERVED. CONSEQUENTLY, THE REGIONAL TRANSMISSION ORGANIZATION'S INABILITY TO RESPOND TO UNEXPECTED DEMANDS WOULD JEOPARDIZE THE RELIABILITY OF ELECTRICAL SERVICE.

c) DESCRIBE ANY OTHER REASONS WHY CONTINUED OPERATION OF THE EMISSION UNIT(S) OR PROCESS DURING MALFUNCTION OR BREAKDOWN IS NECESSARY:

IN ORDER THAT RELIABLE ELECTRICAL SERVICE MAY BE MAINTAINED, AN ELECTRIC SYSTEM MUST HAVE SUFFICIENT CAPABILITY TO MEET THE DEMANDS OF ITS CUSTOMERS AT ALL TIMES. SUFFICIENT CAPABILITY TO MEET THESE DEMANDS PRESUPPOSES A SYSTEM WITH ADEQUATE RESERVE CAPACITY TO MEET UNEXPECTED DEMANDS OR CONTINGENCIES IN PRODUCTION, TRANSMISSION, OR DISTRIBUTION. IF RESERVE CAPACITY IS NOT AVAILABLE, MALFUNCTIONS OR BREAKDOWN REPAIRS MAY BE DELAYED. THE REGIONAL TRANSMISSION ORGANIZATION (RTO) DETERMINES WHETHER GENERATING UNITS CAN SHUT DOWN OR DERATE FOR EXTENDED PERIODS OF TIME. GENERATING UNIT SHUTDOWNS MUST BE COORDINATED WITH THE RTO.

11a) IF THE ITEM OF EQUIPMENT ANTICIPATED TO MALFUNCTION OR BREAKDOWN IS CONTROL EQUIPMENT, THEN LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

	NAME	FLOW DIAGRAM DESIGNATION
i)	UNIT 2 FLY ASH SILO	EU14B
ii)		

b) HAS A REQUEST TO OPERATE THESE OTHER EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT DURING MALFUNCTION AND BREAKDOWN ALSO BEEN INCLUDED IN THIS APPLICATION?

☒ YES ☐ NO

IF NO, EXPLAIN:

12) IF READILY AVAILABLE, PROVIDE AN ESTIMATE OF THE NUMBER OF SIMILAR MALFUNCTIONS OR BREAKDOWNS WHICH HAVE OCCURRED OVER THE PREVIOUS 3 YEARS (EXCLUDING THOSE ASSOCIATED WITH OPACITY MONITORS). INCLUDE THE CAUSE, DURATION, AND MEASURES TAKEN TO PREVENT REOCCURRENCE:

N/A

APPLICABLE RULES

13) IDENTIFY THE SPECIFIC RULE(S) WHICH WOULD ALLOW THE AFFECTED EMISSION UNIT(S) OR PROCESS TO CONTINUE TO OPERATE IN EXCESS OF ALLOWABLE EMISSION LIMITS DURING A MALFUNCTION OR BREAKDOWN:

IAC 201.262 – STANDARDS FOR GRANTING PERMISSION TO OPERATE DURING A MALFUNCTION, BREAKDOWN OR START-UP

14) IDENTIFY THE RULE(S) AND REQUIREMENT(S) WHICH MAY BE VIOLATED DURING CONTINUED OPERATION DURING MALFUNCTION OR BREAKDOWN AND THE ASSOCIATED REGULATED AIR POLLUTANT(S):

IAC 212.123 (a) (Opacity) <= 30%

EMISSIONS INFORMATION

15a) PROVIDE THE MAXIMUM AND TYPICAL LENGTH OF TIME THAT THE EMISSION UNIT(S) OR PROCESS WILL CONTINUE TO OPERATE DURING MALFUNCTION OR BREAKDOWN:

MAXIMUM	TYPICAL
4 WEEKS	1 WEEK

b) EXPLAIN WHICH FACTORS DETERMINE THE LENGTH OF TIME REQUIRED FOR CONTINUED OPERATION:

ALTHOUGH SOME REPAIRS (SUCH AS ELECTRICAL PROBLEMS) MAY BE MADE PROMPTLY FOLLOWING DIAGNOSIS OF THE PROBLEM, SOME MECHANICAL MALFUNCTIONS MAY REQUIRE THAT THE UNIT BE TAKEN OUT OF SERVICE TO PROVIDE INTERNAL ACCESS TO THE DEVICE. CONSEQUENTLY, REPAIRS ARE TYPICALLY PERFORMED DURING FORCED OR PLANNED OUTAGES IF ANTICIPATED SYSTEM LOADS DO NOT REQUIRE OPERATION OF THE AFFECTED SYSTEM AT THAT TIME.

16) IN THE FOLLOWING TABLE, PROVIDE THE AFFECTED REGULATED AIR POLLUTANT(S), THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED MALFUNCTION OR BREAKDOWN (M&B), THE ALLOWABLE EMISSIONS DURING NORMAL OPERATION, AND THE METHOD USED TO DETERMINE THESE RATES. ATTACH ALL CALCULATIONS USED TO DETERMINE THE EMISSION RATES WHICH WOULD OCCUR DURING THE REQUESTED M&B AND LABEL AS EXHIBIT 204-1.

EMISSION RATES

REGULATED AIR POLLUTANT		M&B (LB/HR)	M&B (TON/YR)	ALLOWABLE (LB/HR)	ALLOWABLE (TON/YR)	DM*
SEE APPLICATION APPENDIX A, SECTION A.1	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					
	MAX:					
	TYPICAL:					

*NOTE: DM = DETERMINATION METHOD – 1)STACK TEST; 2)MATERIAL BALANCE; 3)STANDARD EMISSION FACTOR; 4) ENGINEERING ESTIMATE; AND 5)SPECIAL EMISSION FACTOR

EXHAUST POINT INFORMATION

COMPLETE THE FOLLOWING ITEMS ONLY IF EMISSIONS ARE EXHAUSTED THROUGH A DIFFERENT POINT DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION.

17) EXPLAIN THE DIFFERENCE IN EXHAUSTED EMISSIONS DURING MALFUNCTION OR BREAKDOWN RELATIVE TO NORMAL OPERATION:

TBD

18) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

19) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.): IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

20) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

21) DISCHARGE HEIGHT ABOVE GRADE (FT):

22) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

23) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NONCIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

24) EXIT GAS FLOW RATE:	a) MAXIMUM (ACFM):	b) AVERAGE (ACFM):
25) EXIT GAS TEMPERATURE:	a) MAXIMUM (°F):	b) AVERAGE (°F):

26) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

27) LIST ALL EMISSION UNITS AND CONTROL EQUIPMENT SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

28a) LATITUDE:	b) LONGITUDE:	
29a) UTM ZONE:	b) UTM VERTICAL:	c) UTM HORIZONTAL:

APPENDIX A

EMISSION CALCULATIONS

A.1 STARTUP AND MALFUNCTION EMISSION CALCULATIONS

Exhibit A-1. Unit 1 Startup Emissions

	Hot Startup	Warm Startup	Cold Startup	Typical Annual	Maximum Annual
Duration on Natural Gas, hours	4	8	24	108	216
Typical Startups Per Year	3	3	3		
Maximum Startups Per Year[a]	6	6	6		

[a]Maximum startups are assumed to twice as many as the typical startups expected from the unit.

Typical Emissions - Natural Gas

Pollutant	Heat Input[a] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[b] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	320	108	0.186	59.61	3.22	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers (assumes no low-NOx burner control during startup)
CO			0.0824	26.35	1.42	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers
$PM_{Filterable}$			0.0019	0.60	0.03	AP-42 Table 1.4-2
PM_{Total}			0.0075	2.38	0.13	AP-42 Table 1.4-2
SO_2			0.0006	0.19	0.01	AP-42 Table 1.4-2
VOM			0.005	1.73	0.09	AP-42 Table 1.4-2
Mercury			2.55E-07	8.16E-05	4.40E-06	AP-42 Table 1.4-4

[a]Design input is used even though the unit couldn't feasibly reach this heat input while burning natural gas.

[b]Factor of 1,020 is used to convert from lb/106 scf to lb/MMBtu based on Reference 11 of AP-42 Section 1.4

Maximum Emissions - Natural Gas

Pollutant	Heat Input[c] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[d] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	768	216	0.186	143.06	15.45	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers (assumes no low-NOx burner control during startup)
CO			0.0824	63.25	6.83	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers
$PM_{Filterable}$			0.0019	1.43	0.15	AP-42 Table 1.4-2
PM_{Total}			0.0075	5.72	0.62	AP-42 Table 1.4-2
SO_2			0.0006	0.45	0.05	AP-42 Table 1.4-2
VOM			0.005	4.14	0.45	AP-42 Table 1.4-2
Mercury			2.55E-07	1.96E-04	2.11E-05	AP-42 Table 1.4-4

[c]Design input is used even though the unit couldn't feasibly reach this heat input while burning natural gas.

[d]Factor of 1,020 is used to convert from lb/106 scf to lb/MMBtu based on Reference 11 of AP-42 Section 1.4

Exhibit A-2. Unit 2 Startup Emissions

	Hot Startup	Warm Startup	Cold Startup	Typical Annual	Maximum Annual
Duration on Natural Gas, hours	4	8	24	108	216
Typical Startups Per Year	3	3	3		
Maximum Startups Per Year[a]	6	6	6		

[a]Maximum startups are assumed to twice as many as the typical startups expected from the unit.

Typical Emissions - Natural Gas

Pollutant	Heat Input[a] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[b] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	320	108	0.186	59.61	3.22	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers (assumes no low-NOx burner control during startup)
CO			0.0824	26.35	1.42	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers
$PM_{Filterable}$			0.0019	0.60	0.03	AP-42 Table 1.4-2
PM_{Total}			0.0075	2.38	0.13	AP-42 Table 1.4-2
SO_2			0.0006	0.19	0.01	AP-42 Table 1.4-2
VOM			0.005	1.73	0.09	AP-42 Table 1.4-2
Mercury			2.55E-07	8.16E-05	4.40E-06	AP-42 Table 1.4-4

[a]Design input is used even though the unit couldn't feasibly reach this heat input while burning natural gas.

[b]Factor of 1,020 is used to convert from lb/106 scf to lb/MMBtu based on Reference 11 of AP-42 Section 1.4

Maximum Emissions - Natural Gas

Pollutant	Heat Input[c] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[d] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	768	216	0.186	143.06	15.45	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers (assumes no low-NOx burner control during startup)
CO			0.0824	63.25	6.83	AP-42 Table 1.4-1 factor for uncontrolled (Post-NSPS) wall-fired boilers
$PM_{Filterable}$			0.0019	1.43	0.15	AP-42 Table 1.4-2
PM_{Total}			0.0075	5.72	0.62	AP-42 Table 1.4-2
SO_2			0.0006	0.45	0.05	AP-42 Table 1.4-2
VOM			0.005	4.14	0.45	AP-42 Table 1.4-2
Mercury			2.55E-07	1.96E-04	2.11E-05	AP-42 Table 1.4-4

[c]Design input is used even though the unit couldn't feasibly reach this heat input while burning natural gas.

[d]Factor of 1,020 is used to convert from lb/106 scf to lb/MMBtu based on Reference 11 of AP-42 Section 1.4

Exhibit A-3. Unit 1 Malfunction Emissions

	Typical Annual	Maximum Annual
Malfunction Operation, hours	4	504

Typical Emissions - Coal

Pollutant	Heat Input[a] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[b] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	7,450	4	0.46	3,427	7	Estimated SCR inlet concentration according to Siemens AQCS documentation (Assuming an SCR malfunction)
PM			27.96	208,302	417	Estimated Dry ESP inlet concentration for performance coal according to Siemens AQCS documentation (Assuming a Dry ESP malfunction)
PM			0.04	298	0.60	Estimated Wet ESP inlet concentration for performance coal according to Siemens AQCS documentation (Assuming a Wet ESP malfunction)
SO_2				62,608	125	Estimated WFGD inlet emission rate for performance coal according to Siemens AQCS documentation (Assuming a WFGD malfunction)
Mercury[c]			5.70E-06	0.042	8.49E-05	Estimated loss of 57% control of mercury (Assuming a PAC Injection malfunction)
			1.94E-06	0.014	2.88E-05	Estimated loss of 19% control of mercury (Assuming a WFGD malfunction)
			1.51E-06	0.011	2.26E-05	Estimated loss of 15% control of mercury (Assuming a Wet ESP malfunction)
H_2SO_4[c]			0.05	373	0.75	Estimated loss of 20% control of H_2SO_4 (Assuming a PAC Injection malfunction)
			0.14	1043	2.09	Estimated loss of 56% control of H_2SO_4 (Assuming a WFGD malfunction)
			0.06	416	0.83	Estimated loss of 22% control of H_2SO_4 (Assuming a Wet ESP malfunction)

[a] Heat input during a typical malfunction is based on the expected heat input.

[b] Assumes the unit is burning performance coal

[c] Calculated based on reduction of the uncontrolled emission factor as submitted in the PSD permit

Maximum Emissions - Coal

Pollutant	Heat Input[d] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[e] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	7,450	504	0.460	3,427	864	Estimated SCR inlet concentration according to Siemens AQCS documentation (Assuming an SCR malfunction)
PM			29.94	223,053	56,209	Estimated Dry ESP inlet concentration for worst coal according to Siemens AQCS documentation (Assuming a Dry ESP malfunction)
PM			0.04	298	75.1	Estimated Wet ESP inlet concentration for worst coal according to Siemens AQCS documentation (Assuming a Wet ESP malfunction)
SO_2				67,527	17,017	Estimated WFGC inlet emission rate for worst coal according to Siemens AQCS documentation (Assuming a WFGD malfunction)
Mercury[f]			5.70E-06	0.042	8.49E-05	Estimated loss of 57% control of mercury (Assuming a PAC Injection malfunction)
			1.94E-06	0.014	2.88E-05	Estimated loss of 19% control of mercury (Assuming a WFGD malfunction)
			1.51E-06	0.011	2.26E-05	Estimated loss of 15% control of mercury (Assuming a Wet ESP malfunction)
H_2SO_4[f]			0.05	373	0.75	Estimated loss of 20% control of H_2SO_4 (Assuming a PAC Injection malfunction)
			0.14	1043	2.09	Estimated loss of 56% control of H_2SO_4 (Assuming a WFGD malfunction)
			0.06	416	0.83	Estimated loss of 22% control of H_2SO_4 (Assuming a Wet ESP malfunction)

[d] Heat input during a maximum emitting malfunction is based on a the maximum heat input to the boiler.

[e] Assumes the unit is burning worst-case coal.

[f] Calculated based on reduction of the uncontrolled emission factor as submitted in the PSD permit.

Exhibit A-4. Unit 2 Malfunction Emissions

	Typical Annual	Maximum Annual
Malfunction Operation, hours	4	504

Typical Emissions - Coal

Pollutant	Heat Input[a] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[b] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	7,450	4	0.46	3,427	7	Estimated SCR inlet concentration according to Siemens AQCS documentation (Assuming an SCR malfunction)
PM			27.96	208,302	417	Estimated Dry ESP inlet concentration for performance coal according to Siemens AQCS documentation (Assuming a Dry ESP malfunction)
PM			0.04	298	0.60	Estimated Wet ESP inlet concentration for performance coal according to Siemens AQCS documentation (Assuming a Wet ESP malfunction)
SO_2				62,608	125	Estimated WFGD inlet emission rate for performance coal according to Siemens AQCS documentation (Assuming a WFGD malfunction)
Mercury[c]			5.70E-06	0.042	8.49E-05	Estimated loss of 57% control of mercury (Assuming a PAC Injection malfunction)
			1.94E-06	0.014	2.88E-05	Estimated loss of 19% control of mercury (Assuming a WFGD malfunction)
			1.51E-06	0.011	2.26E-05	Estimated loss of 15% control of mercury (Assuming a Wet ESP malfunction)
H_2SO_4[c]			0.05	373	0.75	Estimated loss of 20% control of H_2SO_4 (Assuming a PAC Injection malfunction)
			0.14	1043	2.09	Estimated loss of 56% control of H_2SO_4 (Assuming a WFGD malfunction)
			0.06	416	0.83	Estimated loss of 22% control of H_2SO_4 (Assuming a Wet ESP malfunction)

[a]Heat input during a typical malfunction is based on the expected heat input.

[b]Assumes the unit is burning performance coal.

[c]Calculated based on reduction of the uncontrolled emission factor as submitted in the PSD permit.

Maximum Emissions - Coal

Pollutant	Heat Input[d] (MMBtu/hr)	Operational Hours (hours/year)	Emission Factor[e] (lb/MMBtu)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Emission Factor Basis
NO_X	7,450	504	0.460	3,427	864	Estimated SCR inlet concentration according to Siemens AQCS documentation (Assuming an SCR malfunction)
PM			29.94	223,053	56,209	Estimated Dry ESP inlet concentration for worst coal according to Siemens AQCS documentation (Assuming a Dry ESP malfunction)
PM			0.04	298	75.1	Estimated Wet ESP inlet concentration for worst coal according to Siemens AQCS documentation (Assuming a Wet ESP malfunction)
SO_2				67,527	17,017	Estimated WFGC inlet emission rate for worst coal according to Siemens AQCS documentation (Assuming a WFGD malfunction)
Mercury[f]			5.70E-06	0.042	8.49E-05	Estimated loss of 57% control of mercury (Assuming a PAC Injection malfunction)
			1.94E-06	0.014	2.88E-05	Estimated loss of 19% control of mercury (Assuming a WFGD malfunction)
			1.51E-06	0.011	2.26E-05	Estimated loss of 15% control of mercury (Assuming a Wet ESP malfunction)
H_2SO_4[f]			0.05	373	0.75	Estimated loss of 20% control of H_2SO_4 (Assuming a PAC Injection malfunction)
			0.14	1043	2.09	Estimated loss of 56% control of H_2SO_4 (Assuming a WFGD malfunction)
			0.06	416	0.83	Estimated loss of 22% control of H_2SO_4 (Assuming a Wet ESP malfunction)

[d]Heat input during a maximum emitting malfunction is based on a the maximum heat input to the boiler.

[e]Assumes the unit is burning worst-case coal.

[f]Calculated based on reduction of the uncontrolled emission factor as submitted in the PSD permit.

Exhibit A-5. Bulk Material Equipment Malfunction Emissions

	Typical	Maximum
Malfunction Operation, hours	168	672

Emission Unit	Control Device	Controlled Emissions[a] (tpy)	Control Efficiency[a] (%)	Typical Malfunction Emissions (tpy)	Maximum Malfunction Emissions (tpy)
MC 1 to 2 (EU104)	Chutes with Fogging (EC104)	3.79E-03	99.5%	1.45E-02	5.82E-02
MC 1 to 6,000 Ton Surge Pile (EU118A)	Dust Suppression Spray (EC118A)	7.58E-02	90.0%	1.45E-02	5.82E-02
MC 3 to Screening Facility (EU105-1)	Chutes with Fogging (EC105A)	8.21E-04	99.5%	3.15E-03	1.26E-02
MC 4 to Screening Facility (EU105-2)	Chutes with Fogging (EC105A)	8.21E-04	99.5%	3.15E-03	1.26E-02
Screening Facility to MC8 (EU105-3)	Chutes with Fogging (EC105A)	1.36E-03	99.5%	5.21E-03	2.09E-02
Screening Facility to Rotary Breaker (EU105-4)	Chutes with Fogging (EC105A)	2.83E-04	99.5%	1.09E-03	4.35E-03
Rotary Breaker to MC 7 (EU105-5)	Chutes with Fogging (EC105A)	2.83E-04	99.5%	1.09E-03	4.35E-03
Rotary Breaker to RC 6 (EU105-6)	Enclosure / Dust Suppression Spray (EC105B)	2.46E-05	99.5%	9.44E-05	3.78E-04
RC 6 to Refuse Bin (EU107-1)	Dust Suppression Spray (EC107)	4.92E-04	90.0%	9.44E-05	3.78E-04
Refuse Bin to Truck (EU107-2)	Dust Suppression Spray (EC107)	1.14E-03	90.0%	2.18E-04	8.72E-04
MC 7 to 30,000 Ton Pile 1 (EU102A)	Dust Suppression Spray (EC102A)	1.31E-02	90.0%	2.51E-03	1.00E-02
MC 8 to 50,000 Ton Pile 2 (EU102B-1)	Dust Suppression Spray (EC102B-1)	3.14E-02	90.0%	6.02E-03	2.41E-02
MC 8 to MC 9 (EU102B-2)	Chutes with Fogging (EC102B-2)	1.57E-03	99.5%	6.02E-03	2.41E-02
MC 9 to 50,000 Ton Pile 3 (EU102C)	Dust Suppression Spray (EC102C)	3.08E-02	90.0%	5.91E-03	2.36E-02
MC 11 to C-1 (EU16B)	Chutes with Fogging (EC16B)	1.62E-03	99.5%	6.21E-03	2.48E-02
C-1 to C-2 (EU44/45-1)	Dust Collector (EC44/45)	1.62E-03	99.5%	6.21E-03	2.48E-02
C-1 to Surge Bin (EU44/45-2)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
C-4A to Surge Bin (EU44/45-3)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
C-4B to Surge Bin (EU44/45-4)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
Surge Bin to Belt Feeder A (EU44/45-5)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
Surge Bin to Belt Feeder B (EU44/45-6)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
Belt Feeder A to Screen A (EU44/45-7)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
Belt Feeder B to Screen B (EU44/45-8)	Dust Collector (EC44/45)	8.09E-04	99.5%	3.10E-03	1.24E-02
Screen A Grizzly to Granulator Crusher A (EU44/45-9)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
Screen B Grizzly to Granulator Crusher B (EU44/45-10)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
Screen A Grizzly to C-5A (EU44/45-11)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
Screen B Grizzly to C-5B (EU44/45-12)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
Granulator Crusher A to C-5A (EU44/45-13)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
Granulator Crusher B to C-5B (EU44/45-14)	Dust Collector (EC44/45)	4.04E-04	99.5%	1.55E-03	6.21E-03
C-2 to Coal Pile B (EU49-1)	Dust Suppression Spray (EC49-1)	3.73E-02	90.0%	7.16E-03	2.87E-02
C-2 to C-3 (EU49-2)	Chutes with Fogging (EC49-2)	1.87E-03	99.5%	7.16E-03	2.87E-02
C-3 to Coal Pile A (EU48)	Dust Suppression Spray (EC48)	3.73E-02	90.0%	7.16E-03	2.87E-02
Storage Coal Piles (A&B) to Stamler Feeder (EU41B1)	Dust Suppression Spray (EC41B1)	3.73E-02	90.0%	7.15E-03	2.86E-02
Stamler Feeder to Conveyor C-4A (EU41B2)	Dust Suppression Spray (EC41B2)	3.73E-02	90.0%	7.15E-03	2.86E-02
C-5A to C-6A (EU1/50B-1)	Dust Collector (EC1/50B)	8.09E-04	99.5%	3.10E-03	1.24E-02
C-5B to C-6B (EU1/50B-2)	Dust Collector (EC1/50B)	8.09E-04	99.5%	3.10E-03	1.24E-02
C-6A to Unit 1 (EU1/50B-3)	Dust Collector (EC1/50B)	4.04E-04	99.5%	1.55E-03	6.21E-03
C-6B to Unit 1 (EU1/50B-4)	Dust Collector (EC1/50B)	4.04E-04	99.5%	1.55E-03	6.21E-03
C-6A to Unit 2 (EU2-1)	Dust Collector (EC2)	4.04E-04	99.5%	1.55E-03	6.21E-03
C-6B to Unit 2 (EU2-2)	Dust Collector (EC2)	4.04E-04	99.5%	1.55E-03	6.21E-03
Rail Car to Unloading Hopper	Dust Collector (EC17)	9.69E-03	99.5%	3.72E-02	1.49E-01
LS-1 to Limestone Storage Pile	Enclosed (EC58)	8.40E-03	99.0%	1.61E-02	6.44E-02
Diverter Gate A to LS Day Bin A	Vent Filter (EC75A)	2.10E-04	99.9%	4.03E-03	1.61E-02
Diverter Gate B to LS Day Bin A	Vent Filter (EC75A)	2.10E-04	99.9%	4.03E-03	1.61E-02
Diverter Gate A to LS Day Bin B	Vent Filter (EC75B)	2.10E-04	99.9%	4.03E-03	1.61E-02
Diverter Gate B to LS Day Bin B	Vent Filter (EC75B)	2.10E-04	99.9%	4.03E-03	1.61E-02

[a]Controlled emissions and control efficiency are from Appendix A of a letter submitted to the IEPA on July 28, 2009 for updated calculations and emission points.

Exhibit A-6. Coal Crushing Units Malfunction Emissions

	Typical	Maximum
Malfunction Operation, hours	168	672

Emission Unit	Control Device	Controlled Emissions[a] (tpy)	Control Efficiency[a] (%)	Typical Malfunction Emissions (tpy)	Maximum Malfunction Emissions (tpy)
Crusher 1 (EU44/45-C1)	Dust Collector (EC44/45)	0.19	99.5%	0.90	3.02
Crusher 2 (EU44/45-C2)	Dust Collector (EC44/45)	0.19	99.5%	0.90	3.02

[a]Controlled emissions and control efficiency are from Appendix A of a letter submitted to the IEPA on July 28, 2009 for updated calculations and emission points.

Exhibit A-7. Unit 1 Fly Ash Silo Malfunction Emissions

	Typical	Maximum
Malfunction Operation, hours	168	672

Emission Unit	Control Device	Controlled Emissions[a] (tpy)	Control Efficiency[a] (%)	Typical Malfunction Emissions (tpy)	Maximum Malfunction Emissions (tpy)
Unit 1 Fly Ash Silo (EU14A)	Bin Vent Filter (EC14A)	0.08	99.5%	0.36	1.22

[a]Controlled emissions and control efficiency are from Appendix A of a letter submitted to the IEPA on July 28, 2009 for updated calculations and emission points.

Exhibit A-8. Unit 2 Fly Ash Silo Malfunction Emissions

	Typical	Maximum
Malfunction Operation, hours	168	672

Emission Unit	Control Device	Controlled Emissions[a] (tpy)	Control Efficiency[a] (%)	Typical Malfunction Emissions (tpy)	Maximum Malfunction Emissions (tpy)
Unit 2 Fly Ash Silo (EU14B)	Bin Vent Filter (EC14B)	0.08	99.5%	0.36	1.22

[a]Controlled emissions and control efficiency are from Appendix A of a letter submitted to the IEPA on July 28, 2009 for updated calculations and emission points.

A.2 Relevant Insignificant Activity Calculations

Exhibit A-9. Rock Duster Silo Insignificant Activity Calculations

Insignificant Activity Determination (201.210(a)(2) or (3))

Maximum/Potential Emissions

Emission Unit	Throughput[a] (ton/hr)	Throughput[a] (ton/yr)	Emission Factor[b] (lb/ton transferred)	Emissions (lb/hr)	Emissions (tpy)	Basis for Insignificance
Rock Duster Silo	50	12,000	0.0030	0.15	0.018	201.210(a)(3)

[a] Maximum throughputs from Truck 10, from a letter to the IEPA updating emissions (09-1579) dated July 28, 2009.

[b] AP-42, Table 11.19.2-2 (Updated August 2004) for uncontrolled conveyor transfer point.

DOCUMENT 7

PERMIT REVIEW TRAVELER SHEET

R0840

I.D. #	189808AAB	Source Name	Prairie State Generating Station	Date Received	5-5-2011
Application #	11050007	Location	Marissa	Date Opened	5-5-2011

Program	STATE	Type	OPERATING	Title V Type	NEW

Flag	Date	Section	Contact	Expiration Date
	4-27-2011	DLC	CARTER, SALLY	4-26-2016

Emissions(Tons/Year)	CO	NOX	PM	SO2	VOM	Total HAP	Highest Single HAP
Current Allowable Rates							
Project/Total Increase							

Initial Completeness		Analyst	Unit Manager	Date of Determination	Application Complete?	
CAAPP Completeness	☐ N/A				☐ Yes	☐ No
Fee Completeness	☐ N/A				☐ Yes	☐ No
Technical Completeness					☐ Yes	☐ No

Welcome Phone Call to Permit Applicant

Date	Contact Name	Telephone#	Was Additional Information Requested?

For Incomplete Applications Type of Letter Sent	Analyst	Unit Manager	Date Issued	Number of Items Requested (or Amount of Fee Requested)
Notice of Additional Fees:				$
Notice of Incompleteness(NOI)				
Request for Addditional Information(RAI)				
All Required Information Received?	☐ Yes	☐ No	Date Received	
Notice of Intent to Deny CAAPP				

Permit Processing		Analyst	Date	Unit Manager	Date
Draft Prepared for Unit Manager Review & Comments Returned to Analyst					
Final Draft Sent to Applicant for Comments					
Submitted to Word Processing					
Draft Permit to Community Relations	☐ N/A				
Public Comment Period Initiated					
Public Hearing Date	☐ N/A				
Public Comment Period Completed	☐ N/A				
45 Day USEPA Comment Period	☐ N/A				
USEPA Comments Received	☐ Yes ☐ No				
Responsiveness Summary Completed	☐ N/A				
Public Participation Completed					
Final Action (Fill in One)		**Analyst**	**Date**	**Unit Manager**	**Date**
☐	Permit Not Required				
☐	Grant				
☐	Deny				

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

Mail-Out					
	☐ District Office _____	☐ Public Participation List	☐ Cook County	☐ Health Dept _____
	☐ Enforcement _____	☐ Other _____	Init. _____	Date _____

Permit Electronically Sent to	Applicant	CES	DLC	Community Relations	USEPA	AQPS	FOS
Person Sending (Initials)							

DOCUMENT 8

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506 – (217) 782-2113

PAT QUINN, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

217/785-5151

CAAPP APPLICATION COMPLETENESS DETERMINATION
AND SOURCE FEE DETERMINATION

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

APPLICANT

Prairie State Generating Company, LLC
Attn: Peter DeQuattro
3872 County Hwy 12
Marissa, Illinois 62257

Date of Determination:	May 18, 2011
Application/Permit No.:	10010033
I.D. Number:	189808AAB
Date Received:	January 29, 2010
Source Name:	Prairie State Generating Company, LLC
Location of Source:	3827 County Hwy 12, Marissa, Illinois, Washington County

Dear Mr. DeQuattro:

This letter provides notification that your Clean Air Act Permit Program (CAAPP) application received on the date indicated above, has been determined by the Illinois EPA to be complete pursuant to Section 39.5(5) of the Illinois Environmental Protection Act (Act).

As provided in Section 39.5(18) of the Act, a CAAPP source shall pay a fee. Attached is the annual fee bill for this CAAPP source as determined from information included in your application, on form 292-CAAPP - FEE DETERMINATION FOR CAAPP PERMIT. Payment of the fee is due within 45 days of the billing date indicated on the billing statement.

Based on the completeness determination, the owner or operator of the CAAPP source is not required to renew existing state operating permits for emission units at the CAAPP source. The owner or operator of the CAAPP source is not, however, relieved of any obligation to obtain state operating permits for emission units at the CAAPP source for which no current state operating permit exists.

Notwithstanding the completeness determination, the Illinois EPA may request additional information necessary to evaluate or take final action on the CAAPP application. If such additional information affects your allowable emission limits, a revised form 292-CAAPP-FEE DETERMINATION FOR CAAPP PERMIT must be submitted with the requested information. The failure to submit to the Illinois EPA the requested information within the time frame specified by the Illinois EPA, may force the Illinois EPA to deny your CAAPP application pursuant to Section 39.5 of the Act.

If you have any questions concerning this matter, please contact the Division of Air Pollution Control, Permit Section at 217/782-2113.

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

ECB:MTR:LSM:

Enclosure(s)

PREVIOUSLY IMAGED

cc: FOS, Region 3
Application File
Compliance Section

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

INVOICE
DIVISION OF AIR POLLUTION CONTROL
INITIAL TITLE V PERMIT FEE

May 18, 2011
Lars Scott
Prairie State Generating Co LLC
1941 Frank Scot Phwy E
Shiloh, IL 62269

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 24 2014
REVIEWER: JKS

Site to which fee applies
Id: 189808AAB

Prairie State Generating Station
3872 County Hwy 12
Marissa, IL 62257

This is your initial Air Pollution Control Title V Permit Fee invoice. If balance is due, make either check or money order payable to: "Illinois Environmental Protection Agency".

In accordance with the Environmental Protection Act Section 18(iiB): Except for the first year of the CAAPP the applicant or permittee may pay the fee annually or semiannually for those fees greater than $5,000. If you elect to pay annually or semiannually, the initial fee or one-half of the initial fee and any balance forward is due July 2, 2011.

In order to ensure the proper crediting of your account, you must return one copy of this invoice with payment in the envelope provided. If you have any questions, please contact the Air, Permit Section at the above address or telephone 217/782-2113 within 45 days.

FUND	DESCRIPTION	AMOUNT
0091	Initial Fee	$1,800.00
	Balance Due	$1,800.00

Please provide the following information:
Amount Enclosed $_____

Please indicate designated site Id Number 189808AAB on your check and return one copy of this invoice with payment.

This Title V permit fee bill does not constitute final Illinois EPA action on any pending application for initial, renewal or modification of CAAPP permit. Neither the issuance nor payment of this fee bill shall serve to modify any otherwise applicable emission limits in your current CAAPP permit. Any change or modification of the underlying CAAPP permit limits established for fee purposes, if at all, will be effectuated upon issuance of the modified CAAPP permit.

PERMIT REVIEW TRAVELER SHEET

R0844

I.D. # 189808AAB	Source Name Prairie State Generating Station	Date Received 5-5-2011
Application # 11050007	Location Marissa	Date Opened 5-5-2011

Program STATE	Type OPERATING	Title V Type NEW

Flag	Date	Section	Contact	Expiration Date
	4-27-2011	DLC	CARTER, SALLY	4-26-2016

Emissions(Tons/Year)	CO	NOX	PM	SO2	VOM	Total HAP	Highest Single HAP
Current Allowable Rates							
Project/Total Increase							

Initial Completeness	Analyst	Unit Manager	Date of Determination	Application Complete?
CAAPP Completeness ☐ N/A				☐ Yes ☐ No
Fee Completeness ☐ N/A				☐ Yes ☐ No
Technical Completeness				☐ Yes ☐ No

Welcome Phone Call to Permit Applicant

Date	Contact Name	Telephone#	Was Additional Information Requested?

For Incomplete Applications Type of Letter Sent	Analyst	Unit Manager	Date Issued	Number of Items Requested (or Amount of Fee Requested)
Notice of Additional Fees:				$
Notice of Incompleteness(NOI)				
Request for Addditional Information(RAI)				
All Required Information Received?	☐ Yes	☐ No	Date Received	
Notice of Intent to Deny CAAPP				

Permit Processing	Analyst	Date	Unit Manager	Date
Draft Prepared for Unit Manager Review & Comments Returned to Analyst				
Final Draft Sent to Applicant for Comments				
Submitted to Word Processing				
Draft Permit to Community Relations ☐ N/A				
Public Comment Period Initiated				
Public Hearing Date ☐ N/A				
Public Comment Period Completed ☐ N/A				
45 Day USEPA Comment Period ☐ N/A				
USEPA Comments Received ☐ Yes ☐ No				
Responsiveness Summary Completed ☐ N/A				
Public Participation Completed				
Final Action (Fill in One)	**Analyst**	**Date**	**Unit Manager**	**Date**
☐ Permit Not Required				
☐ Grant				
☐ Deny				

IEPA-DIVISION OF RECORDS MANAGEMENT
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OCT 24 2014
REVIEWER: JKS

Mail-Out	☐ District Office	☐ Public Participation List	☐ Cook County	☐ Health Dept
	☐ Enforcement	☐ Other	Init.	Date

Permit Electronically Sent to	Applicant	CES	DLC	Community Relations	USEPA	AQPS	FOS
Person Sending (Initials)							

DOCUMENT 9

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 • (217) 782-2829
James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 • (312) 814-6026

PAT QUINN, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

INVOICE
DIVISION OF AIR POLLUTION CONTROL
INITIAL TITLE V PERMIT FEE

May 18, 2011
Lars Scott
Prairie State Generating Co LLC
1941 Frank Scot Phwy E
Shiloh, IL 62269

IEPA-DIVISION OF RECORDS MANAGEMENT
RELEASABLE
OCT 2 4 2014
REVIEWER: JKS

Site to which fee applies
Id: 189808AAB

Prairie State Generating Station
3872 County Hwy 12
Marissa, IL 62257

This is your initial Air Pollution Control Title V Permit Fee invoice. If balance is due, make either check or money order payable to: "Illinois Environmental Protection Agency".

In accordance with the Environmental Protection Act Section 18(iiB): Except for the first year of the CAAPP the applicant or permittee may pay the fee annually or semiannually for those fees greater than $5,000. If you elect to pay annually or semiannually, the initial fee or one-half of the initial fee and any balance forward is due July 2, 2011.

In order to ensure the proper crediting of your account, you must return one copy of this invoice with payment in the envelope provided. If you have any questions, please contact the Air, Permit Section at the above address or telephone 217/782-2113 within 45 days.

FUND	DESCRIPTION	AMOUNT
0091	Initial Fee	$1,800.00
	Balance Due	$1,800.00

Please provide the following information:
Amount Enclosed $_____

Please indicate designated site Id Number 189808AAB on your check and return one copy of this invoice with payment.

This Title V permit fee bill does not constitute final Illinois EPA action on any pending application for initial, renewal or modification of CAAPP permit. Neither the issuance nor payment of this fee bill shall serve to modify any otherwise applicable emission limits in your current CAAPP permit. Any change or modification of the underlying CAAPP permit limits established for fee purposes, if at all, will be effectuated upon issuance of the modified CAAPP permit.

DOCUMENT 10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, ILLINOIS 60601 • (312) 814-6026

PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

INVOICE
DIVISION OF AIR POLLUTION CONTROL
ANNUAL TITLE V PERMIT FEE

January 31, 2012

Leah Bennett
Prairie State Generating Co LLC
3872 County Hwy 12
Marissa, IL 62257

Site to which fee applies
Id: 189808AAB

Prairie State Generating Station
3872 County Hwy 12
Marissa, IL 62257

This is your annual Air Pollution Control Title V Permit Fee invoice. If balance is due, make either check or money order payable to: "Illinois Environmental Protection Agency".

In accordance with the Environmental Protection Act Section 18(iiB): Except for the first year of the CAAPP the applicant or permittee may pay the fee annually or semiannually for those fees greater than $5,000. If you elect to pay annually or semiannually, the annual fee or one-half of the annual fee and any balance forward is due July 1, 2012.

In order to ensure the proper crediting of your account, you must return one copy of this invoice with payment in the envelope provided. If you have any questions, please contact the Air, Permit Section at the above address or telephone 217/782-2113 within 45 days.

FUND	DESCRIPTION	AMOUNT
0091	Balance Forward (Includes past due amounts)	$250,000.00
0091	Annual Fee	$294,000.00
	Two Payment Plan Balance	$397,000.00
	Full Payment Plan Balance	$544,000.00

Please provide the following information:

Amount Enclosed $_____

Please indicate designated site Id Number 189808AAB on your check and return one copy of this invoice with payment.

This Title V permit fee bill does not constitute final Illinois EPA action on any pending application for initial, renewal or modification of CAAPP permit. Neither the issuance nor payment of this fee bill shall serve to limit or modify any otherwise applicable emission limits in your current CAAPP permit. Any change or modification of the underlying CAAPP permit limits established for fee purposes, if at all, will be effectuated upon issuance of the modified CAAPP permit.

MAY 02 2012

REVIEWER JRM

DOCUMENT 11

189808AAB
R0850
16010033

PRAIRIE STATE

Generating Company

PRAIRIE STATE GENERATING COMPANY, LLC
3872 County Highway 12
Marissa, IL 62257

JUN 29 2016

June 27, 2016

Mr. Michael Reed
Illinois Environmental Protection Agency
Division of Air Pollution Control
1021 N. Grand Ave. East
Springfield, IL 62794-9276

Re: Acid Rain Permit and NOx Compliance Plan Renewal Application. ORIS ID: 55856
Facility ID: 189808AAB

Dear Mr. Reed:

Enclosed please find the renewal Acid Rain permit application and Phase II NOx Compliance Plan for Prairie State Generating Station, ORIS 55856, operated by Prairie State Generating Company, LLC. The renewal application is being submitted pursuant to 40 CFR 72, §72.30(c).

Prior to this submittal, Prairie State Generating Company, LLC submitted an Acid Rain permit and NOx Compliance Plan renewal application on May 5, 2011.

Should you have questions about this application, please contact Allison Lauf at 618-824-7690.

Sincerely,

Randy Short

Randy Short
Chief Operating Officer

IEPA
Division of Records Management
Releasable

JAN 03 2022

Reviewer MDB

Enclosures: EPA Form 7610-16, EPA Form 7610-28

Cc: U.S. Environmental Protection Agency
1201 Constitution Ave., NW
7th Floor, Room #7421L
Attn: Acid Rain NOx
Washington, DC 20004
(202) 343-9077

PREVIOUSLY IMAGED

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ New ☐ Revised ☒ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Prairie State Generating Station	IL	55856

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
Unit 01	Yes
Unit 02	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Permit Requirements

STEP 3

Read the standard requirements.

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission

of a new certificate of representation changing the designated representative;

STEP 3, Cont'd.

Recordkeeping and Reporting Requirements, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with

any other provision of the Act, including the provisions of title I of the Act relating

STEP 3, Cont'd.

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4
Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Randy Short, Chief Operating Officer Name	
Signature Randy Short	Date 6-27-201

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain NO_X Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☒ Revised

STEP 1
Indicate plant name, State, and Plant code from the current Certificate of Representation covering the facility.

Plant Name	State	Plant Code
Prairie State Generating Station	IL	55856

STEP 2

Identify each affected Group 1 and Group 2 boiler using the unit IDs from the current Certificate of Representation covering the facility. Also indicate the boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom, and select the compliance option for each unit by making an 'X' in the appropriate row and column.

	Unit 01 ID#	Unit 02 ID#	ID#	ID#	ID#	ID#
	DBW Type	DBW Type	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)						
(c) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)						
(d) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	X	X				
(e) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(f) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(g) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(h) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						

STEP 2, cont'd

Prairie State Generating Station
Plant Name (From Step 1)

	Unit 01 ID# DBW Type	Unit 02 ID# DBW Type	ID# Type	ID# Type	ID# Type	ID# Type
(i) NO_x Averaging Plan (include NO_x Averaging form)						
(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging Form))						
(l) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						

STEP 3: Identify the first calendar year in which this plan will apply.

January 1, 2011

STEP 4: Read the special provisions and certification, enter the name of the designated representative, sign and date.

Special Provisions

General. This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Randy Short, Chief Operating Officer Name	
Signature Randy Short	Date 6/27/2016

RACHEL MEINERT
6186226059
PRAIRIE STATE GENERATING
3872 COUNTY HIGHWAY 12
MARISSA IL 62257

1 LBS

1 OF 1

SHIP TO:
MICHAEL REED
217 7823397
IL ENVIRONMENTAL PROTECTION AGENCY
1021 N GRAND AVE EAST
SPRINGFIELD IL 62794

IL 627 0-01

UPS GROUND
TRACKING #: 1Z 0E1 416 03 9576 1396

BILLING: P/P

Reference No.1: Rachel Meinert

XGL 19.04.03 NV45 75 0A 04/2015

Print Label

Page 1 of 1

DOCUMENT 12

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PRAIRIE STATE

Generating Company

PRAIRIE STATE GENERATING COMPANY, LLC
3872 County Highway 12
Marissa, IL 62257

July 16, 2020

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STATE OF ILLINOIS
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Environmental Protection Agency
BUREAU OF AIR

Illinois Environmental Protection Agency
Division of Air Pollution Control
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Subject: Submittal of Title V (CAAPP) Permit Application
Facility ID: 189808AAB

Please find enclosed a revised CAAPP application for the Prairie State Energy Campus. Prairie State Generating Company (PSGC) initially applied for a CAAPP permit in January 2010 and updated the application in May 2011. As of July 2020, the Illinois Environmental Protection Agency (Illinois EPA) has not issued a draft permit in response to this application.

This application supplement identifies information in the original CAAPP application that PSGC proposes to correct, adds new information where appropriate, and reviews the regulations for which requirements have changed since the initial application. All previously submitted information not revised by this submittal remains unchanged.

Please contact me at (618) 824-7655 with any questions regarding this submittal.

James M. Andrew
Director, Environmental Services

Enclosures: Supplement to CAAPP Application

Cc: Mr. Mike Liebert, Trinity Consultants [electronic copy]

IEPA
Division of Records Management
Releasable
JAN 03 2022
Reviewer: MDB

PREVIOUSLY IMAGED

189 808 AAB R0861
1001 0033

PROJECT REPORT

PRAIRIE STATE
Generating Company

Supplement to CAAPP Application

Prepared By:

RECEIVED
STATE OF ILLINOIS
JUL 27 2020
Environmental Protection Agency
BUREAU OF AIR

TRINITY CONSULTANTS
16252 Westwoods Business Park Dr.
Ellisville, MO 63017
(636) 530-4600

July 2020

Project 192601.0155

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JAN 03 2022

Reviewer: MDB

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1. INTRODUCTION

Prairie State Generating Company, LLC (PSGC) operates Prairie State Generating Station (PSGS), located in Marissa, Illinois. Prairie State Energy Campus Management Corporation, LLC is the parent company of PSGC. The Prairie State Energy Campus consists of a coal mine, two coal-fired steam generators, one natural gas-fired auxiliary boiler, two cooling towers, and other ancillary activities. PSGC was issued a Prevention of Significant Deterioration (PSD) permit (Construction Permit No. 01100065) on April 28, 2005, modified on November 10, 2011.

The facility is located in Washington County, which is designated as attainment for all criteria air pollutants per 40 CFR 81.314. PSGC holds additional contiguous property in St. Clair County; however, none of the facility emission sources are located outside Washington County. The facility is designated as a major source of sulfur dioxide (SO_2), carbon monoxide (CO), nitrogen oxides (NO_X), volatile organic material (VOM), particulate matter (PM), Hazardous Air Pollutants (HAPs), and Greenhouse Gases (GHGs) with respect to Title 40 of the Code of Federal Regulations (40 CFR), Part 70 which is implemented under the Illinois Environmental Protection Agency's (Illinois EPA's) Clean Air Act Permit Program (CAAPP). In accordance with 35 IAC Part 270, a CAAPP permit is required based on the facility's status as a major source.

PSGC initially applied for a CAAPP permit in January 2010 and updated the application in May 2011. As of July 2020, the Illinois Environmental Protection Agency (Illinois EPA) has not issued a draft permit in response to this application. In the intervening period, notable changes have taken place at the plant and in the regulatory environment. PSGC has constructed new emission units by obtaining a construction permit to construct a landfill to dispose of coal combustion residuals and mine waste materials (CP 11080076) and another construction permit to create a material handling and load out facility for coal combustion residuals (CCR, CP 17020018). There are also some technical errors that PSGC has identified in the initial application and wishes to amend with this submittal. Therefore, PSGC submits this report as a supplement to the initial CAAPP application. This report identifies information in the original CAAPP application that PSGC proposes to correct, adds new information where appropriate, and reviews the regulations for which requirements have changed since the initial application. All previously submitted information not revised in this submittal remains unchanged. New and revised CAAPP permit application forms are provided in Appendix A of this supplement.

This submittal consists of the following sections:

- Section 2: Emission Unit Updates
- Section 3: Regulatory Updates
- Appendix A: New and Revised CAAPP Application Forms
- Appendix B: Fugitive Dust Plans
- Appendix C: Episode Action Plan
- Appendix D: Updated List of Emission Units
- Appendix E: Revised Process Flow Diagrams
- Appendix F: Updated Property Map

2.1. AUXILIARY BOILER UTILIZATION INCREASE

On November 10, 2011, Illinois EPA issued a revision to the Prevention of Significant Deterioration (PSD) permit for PSGC. This permit revision allowed the auxiliary boiler to reach a capacity factor of 25 percent during 2011 and 2012 operations.[1] For 2013 operations and onward, the auxiliary boiler must operate below a capacity factor limit of 10 percent. PSGC requests that this revised PSD permit replace the original PSD permit incorporated by reference in the initial CAAPP application.

Form 283-CAAPP, in Appendix A of this supplement, has been revised to reflect the current PSD permit.

2.2. CONSTRUCTION PERMITS INCORPORATION BY REFERENCE

Please note that Construction Permit 08010051, issued on July 24, 2008, was part of the initial CAAPP application. Since then, the following construction permits have been issued.

2.2.1. Construction Permit 11080076

On October 4, 2011, Illinois EPA issued a construction permit (CP 11080076) for a near-field waste disposal facility at the PSGS, along with two new conveyors, two stackers, and a water spraying system to suppress PM emissions from material transfer and handling. The units are subject to the state PM standards set forth in 35 IAC 212.123(a), 301, and 321. On September 30, 2015, Illinois EPA issued a revised copy of this permit to include the construction of a new haul road segment to the waste disposal facility.

PSGC requests that this permit and its emission calculations be incorporated by reference in the CAAPP, as indicated on the revised Form 283-CAAPP and 287-CAAPP in Appendix A of this supplement. Emissions from the new points consist of fugitive particulate matter.

2.2.2. Construction Permit 01100065

On November 10, 2011, Illinois EPA issued a revision to the original PSD permit for PSGC. As mentioned above in Section 2.1, PSGC would like to incorporate the revised PSD permit as indicated on the revised Form 283-CAAPP in Appendix A of this supplement.

2.2.3. Construction Permit 17020018

On June 27, 2018, Illinois EPA issued a construction permit (CP 17020018) for a CCR handling and load out facility at PSGC. The permit includes construction of new materials transfer and conveying equipment, a new fly ash silo, new storage piles, a new haul road, and water spraying systems to control PM emissions from the project. The units are subject to the state PM standards set forth in 35 IAC 212.123(a), 301, and 321. On October 24, 2019, Illinois EPA issued a revised copy of this permit.

PSGC requests that this permit and its emission calculations be incorporated by reference in the CAAPP, as indicated on the revised Forms 283-CAAPP and 287-CAAPP in Appendix A of this supplement. Emissions from the new points consist of fugitive particulate matter.

[1] Condition 2.4.7b.i.B of revised PSD Permit No. 01100065, issued November 10, 2011; p. 50.

2.3. UPDATES TO INSIGNIFICANT UNIT LIST

Since submitting the initial application, PSGC has installed new insignificant emission units. A current list of insignificant emission units is included in Appendix D of this supplement and replaces Table 1-1 of the initial CAAPP application. A revised Form 297-CAAPP is also included in Appendix A of this supplement.

The insignificant emission unit list includes EP138A (soda ash silo), EP138B (lime silo), LG-1A (gasoline tank), ST-0004b (gasoline tank), and ST202a (gasoline tank) as insignificant emission units. The silos are categorically insignificant units per 35 IAC 201.210(b)(16)(A) and the tanks per 35 IAC 201.201(a)(11)(b). Any Significant source forms for these units, including the 220, 260, and 260C-CAAPP forms, should be removed from the CAAPP application.

Additionally, the insignificant emission unit list includes a 1,000 gallon gasoline storage tank (LG-1A). Since the filing of the 2011 application, this unit has been determined to be an insignificant activity per 35 IAC 201.210(a)(10)(B).

2.4. STORAGE PILE CAPACITIES AND OPERATING RATES

In the initial CAAPP application, maximum capacities and emission rates for the storage piles were given in terms of mass stored. PSGC is updating the maximum capacities and emission rates for these units and added two piles from a recent construction permit, as proposed in Table 2-1 below. Due to the difficulty in monitoring the mass stored in the pile, PSGC has calculated the pile base surface area, i.e. footprint that would allow the mass permitted in the initial CAAPP application. PSGC requests changing calculating emissions based on pile mass to calculating emissions based on the footprint of the pile. Additionally, Emission Point 103 has been separated into three separate piles, EP103A, EP103B, and EP103C. Emission calculations have been updated and included in Exhibit A as an attachment to the Form 391-CAAPP.

Table 2-1. Maximum Capacities for Storage Piles

Storage Pile	EU ID	Maximum Capacity (sq. ft footprint)*	PM_{10} Emission Factor (lb/hr per sq. ft)*	Control by Native Moisture or Surfactant (%)	Emission Rate (lb/hr maximum)
Active Coal Pile B	EP40A	57,256	2.10E-06	90%	1.20E-02
Active Coal Pile A	EP40B	57,256	2.10E-06	90%	1.20E-02
Long Term Coal Storage Pile	EP40C	885,600	2.10E-06	90%	1.86E-01
Covered Limestone Pile	EP58P	31,416	1.53E-06	100%	0.00E+00
Limestone Inactive Storage Pile	EP62	39,134	1.53E-06	99%	5.98E-04
Mine Coal Storage Pile 1	EP103A	35,060	2.10E-06	90%	7.37E-03
Mine Coal Storage Pile 2	EP103B	53,093	2.10E-06	90%	1.12E-02
Mine Coal Storage Pile 3	EP103C	53,093	2.10E-06	90%	1.12E-02
Bottom Ash Pile	EP7A	42,560	2.10E-06	90%	8.94E-03
Gypsum Pile	EP7D	42,560	2.10E-06	90%	8.94E-03

* Capacities measured in square feet occupied by the storage pile's footprint when storing the maximum quantity of material. Emission rates calculated using the USEPA document *Control of Open Fugitive Dust Sources*, by Cowherd et. al. published September 1988. The predictive equation on p. 4-17 of the document gives the emission factor E, in lb/day per acre, as

$$E = 1.7\ (s/1.5)\ (365 - p)/235\ (f/15),$$

where s is the percent silt content of the aggregate, f is the percent of time during which unobstructed wind speed is higher than 12 mph a t the mean pile height, and p is the number of days per year with greater than 0.01 in of precipitation. For coal, s = 2.2, and for limestone, s = 1.6. For both materials, at the PSGS site, f = 24.86, and p = 115.

The facility-wide potential to emit, incorporated by reference in this supplement and in the initial CAAPP application, is not increased by this basis change.

2.5. STARTUP, SHUTDOWN, AND MALFUNCTION (SSM) FORMS FOR UNITS 1 AND 2

PSGC is requesting the removal of startup, shutdown, and malfunction (SSM) provisions and forms from the original CAAPP permit application. Please remove submitted 203 and 204-CAAPP forms related to Units 1 or 2 submitted with the initial CAAPP application. PSGC will be able to meet all emission limits that currently apply to these units. However, please maintain the 204-CAAPP forms submitted for bulk material handling, coal crushing units, and the fly ash silos for both Unit 1 and Unit 2.

2.6. UNIT 1 AND UNIT 2 OPERATION MODES

In the original Title V application, Units 1 and 2 were listed as firing in three different modes, coal, natural gas, and switchover. PSGC is requesting removal of the "switchover" mode of operation. Appropriate updates to 240-CAAPP forms are included in Appendix A of this supplement to reflect changes at Unit 1 and Unit 2. Please use these updated forms in place of the 240-CAAPP forms for Units 1 and 2 originally submitted in the initial CAAPP application.

2.7. UNIT 1 AND UNIT 2 CONTROL TECHNOLOGIES

Unit 1 and Unit 2 no longer utilize Powdered Activated Carbon (PAC) injection for mercury control. Please remove submitted 260-CAAPP and 260K-CAAPP forms for PAC Injection from the CAAPP application. Instead, Unit 1 and Unit 2 now use calcium bromide as an additive to coal when needed to promote mercury oxidation and removal in the DESP.

2.8. PSD BACT

Pursuant to permit condition 2.1.2(b) of PSD Permit No. 01100065, SO_x and NO_x emission limits are calculated as a 30-day rolling average. PSGC is requesting a change to the permit to monitor the emission limit on a 720-operating hour rolling average. The following procedure developed by the Illinois EPA and PSGC in 2011 will be used to meet the permit requirement:

1. 40 CFR 60 Appendix A, Equation 19-7 to calculate an hourly lb/MMBtu value
2. 40 CFR 75 Appendix F, Equation F-15 to calculate an hourly MMBtu value
3. Multiply the above to calculate an hourly emission rate in pounds
4. For each boiler operating hour where quality-assured emission monitoring data are obtained, a 720-operating hour rolling average will be computed by dividing the sum of the hourly emission rates in Step 3 by the sum of the hourly heat inputs in Step 2.

2.9. MERCURY UPDATES

Section 2.1.2(c) of PSD Permit No. 01100065 establishes requirements for control of mercury emissions from Unit 1 and Unit 2, coal fired boilers. Written before 40 CFR 63, Subpart UUUUU was finalized, condition 2.1.2(c)(ii)(A) I and II outline two options with which the boilers can comply with mercury emissions. With 40 CFR 63 UUUUU being finalized in 2012 and compliance date of April 16, 2015, the PSGS is proposing to replace the two conditions of the permit with the new standard, as the case-by-case MACT determination in condition 2.1.2(c)(ii)(A) is no longer valid. In accordance with 40 CFR 63, Subpart UUUUU, Table 2 for coal-fired EGUs not low rank virgin coal, the emission limit is 0.013 lb/GWh or 1.2 lb/TBtu. Appropriate revisions to the PSD permit are documented in the 283-CAAPP found in Appendix A of this supplement.

PSGC is also requesting updates to references of mercury control technologies within the original CAAPP permit application. Primary control will now be demonstrated using Dry ESP followed by Wet ESP to remove particle bound mercury. Optional secondary controls include but are not limited to any combination of sorbent injection, chemical oxidant application, or other technologies that may be effective. Figures 2-3A and 2-3B have been revised to reflect these changes and are included in Appendix E of this supplement.

2.10. ADDITIONAL CHANGES

2.10.1. FEIN Identifier

The correct FEIN for the PSGS is 43-1941772.

2.10.2. Updates to Contact Information

Please update the contact information for the facility as follows:

- Environmental Contact
  - Name: James Andrew
  - Phone: 618-824-7655
  - Email: jandrew@psgc-llc.com

- Billing Contact
  - Name: Leah Bennett
  - Phone: 618-824-7618
  - Email: lbennett@psgc-llc.com

- Name for Written Correspondence
  - Name: James Andrew, Director of Environmental Services

2.10.3. Updated Control Efficiencies

The control efficiencies for the following emission units should be updated to the values included below.

- EC118A (dust suppression spray at drop point from conveyor MC-2 to surge pile): 90.0 percent
- EC15A1, 15A2, 15A3, and 15A4 (bin vent filters on the hydrated lime (HL) system): 99.9 percent
- EC 15B1 and 15B2 (bin vent filters): 99.9 percent

The control efficiency for EC118A is listed on page 508 of the initial CAAPP application, Attachment 5, and on page 511, Attachment 8. Both attachments have been updated and are included in Appendix A of this supplement. Please substitute these attachments in place of the attachments originally submitted in the initial CAAPP application.

The control efficiency for the bin vent filters EC15A1 through 15A4 on the HL system is listed on page 585, Attachment 16, and on page 587, Attachment 18. Both attachments have been updated and are included in Appendix A of this supplement. Please use these attachments in place of the attachments originally submitted in the initial CAAPP application.

The control efficiency for the bin vent filters EC 15B1 and 15B2 is listed on page 612, Attachment 21 and on page 614, Attachment 23. Both attachments have been updated and are included in Appendix A of this supplement. Please use these attachments in place of the attachments originally submitted in the initial CAAPP application.

Dust Suppression Spray is an encompassing term that includes water spray, fogging, and water with surfactant. A 260-CAAPP is included in Appendix A incorporating the above changes to coal handling pollution control.

2.10.4. Updated Fly Ash Storage Silo Pollution Control

Unit 1 and Unit 2 fly ash storage silos (EC14A and EC14B) each have a bin vent filter as an air pollution control device. PSGC has made a like for like replacement of these bin vent filters with new filters of the same control and capture efficiencies. An updated 260-CAAPP form is included in Appendix A of this supplement.

2.10.5. Updated Property Map

PSGC has supplied a property map reflecting current facility boundaries. This map is provided in Appendix F of this supplement and is provided to update the contents of Section 2 of the initial CAAPP application.

2.10.6. Updated Episode Action Plan, Compliance Assurance Monitoring Plan, and Fugitive Dust Plan

PSGC has recently updated their Air Pollution Episode Action Plan, Compliance Assurance Monitoring Plan, and Fugitive Dust Plans. PSGC requests that these plans and be incorporated by reference in the CAAPP, as indicated on the revised Form 287-CAAPP in Appendix A of this supplement. Copies of the Fugitive Dust Plans and the Episode Action Plan are included in Appendix B and Appendix C of this supplement, respectively. Form 464-CAAPP (Compliance Assurance Monitoring Plan) is included in Appendix A.

2.10.7. Updates to Haul Road Fugitive Point Naming and Grouping

The 391-CAAPP to the original PSD permitted identifies haul roads as emission point "Trucks (1-16)". Since that application was submitted, more recent submittals and emission calculations have been sent to the Illinois EPA identifying the same emission points as "Haul Roads". To distinguish these hauls roads from those added under subsequent construction permits, PSGC proposes to rename this emission point from "Trucks (1-16)" to "Bulk Commodity Haul Roads." An updated 391-CAAPP is included in Appendix A of this supplement, updating the name of this emission point from "Trucks (1-16)" to "Bulk Commodity Haul Roads." Similarly, PSGC requests the haul roads permitted in CP 17020018 be grouped and listed as "CCR Haul Roads," since they are subject to a grouped operational limit. Finally, PSGC requests the haul roads associated with the near-field landfill in CP 11080076 be listed as "Landfill Haul Roads" as they are also subject to unique operational limitations. These proposed grouping are summarized below in Table 2-2.

Table 2-2. Proposed Updated Grouping of Haul Roads by Permit

Description	EU ID	Material Transferred	Permit No.	Limits
Bulk Commodity Haul Roads	TRUCK_Bulk	Various Bulk Materials	PSD (CP 01100065)	9.1 tpy
Landfill Haul Roads	TRUCK_Landfill	Mine Waste and Breaker Reject Material	Landfill Permit (CP 11080076)	25,000 miles/month and 200,000 miles/year; 6.26 tpy PM and 1.25 tpy PM_{10} /PM2.5
CCR Haul Roads	TRUCK_CCR	Fly Ash, Bottom Ash, Gypsum	CCR Marketing Permit (CP 17020018)	25,000 miles/month; 60,000 miles/year; 7.225 tpy PM; 1.303 tpy PM_{10}; 0.320 tpy PM2.5

3.1. UPDATES TO KEY STATE REGULATIONS

Below are some notable updates to regulations affecting sources inside the state of Illinois. These regulations are codified in Part 35 of the Illinois Administrative Code (IAC).

3.1.1. 35 IAC Part 214, Subpart B

The PSGS is subject to the SO_2 emission limitation outlined in 35 IAC 214.121(a). This regulation limits SO_2 to 1.2 lb/MMBtu for units burning solid fuel at a rate greater than 250 MMBtu/hr (i.e., Units 1 and 2). However, the regulation contains a board note that the section was invalidated pursuant to several legal actions and as such this rule should not apply to Units 1 and 2. This updated rule applicability has been noted in the applicable 240-CAAPP forms included in Appendix A of this supplement.

3.2. NEW SOURCE PERFORMANCE STANDARDS

PSGC submitted the initial CAAPP application for the PSGS in May 2011. In the past few years, the United States Environmental Protection Agency (USEPA) has published several regulatory updates to the New Source Performance Standards (NSPS) codified in 40 CFR Part 60. Subpart Da of Part 60, which applies to the PSGS, has been updated. Furthermore, requirements for PM and SO_2 have been promulgated under 40 CFR Part 63 Subpart UUUUU. The overlap of compliance requirements with Subpart Da and Subpart UUUUU is also discussed below.

3.2.1. 40 CFR Part 60, Subpart Da

The PSGS was issued its PSD permit in April of 2005. Since its issuance, 40 CFR Part 60, Subpart Da has seen several updates, the most notable being in April 2012. Thus, the current PSD permit contains references to regulations in Subpart Da that have since been rewritten and no longer contains the correct emission standards for Unit 1 and Unit 2. The updated version of the Subpart Da is referenced below.

40 CFR Part 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units, applies to the two EGUs, Units 1 and 2, at the facility. These two EGUs are subject to PM, SO_2, NO_X, and opacity standards under this rule.[2]

Pursuant to 40 CFR 60.42Da(c) and (d), PM emissions from Units 1 and 2 may not exceed either 0.14 pounds per megawatt-hour (lb/MWh) gross energy output or 0.015 pounds per million British thermal units (lb/MMBtu) heat input. As an alternative to these limits, PSGC may choose to emit no more than 0.03 lb/MMBtu while achieving at least 99.9 percent removal of PM calculated according to the procedure in 60.48Da(o)(5). This limit applies during all periods of operation except startup, shutdown, and malfunction.[3]

Pursuant to 40 CFR 60.43Da(i)(1), SO_2 emissions from Units 1 and 2 may not exceed 1.4 lb/MMBtu heat input or five percent of potential combustion concentration (i.e., 95 percent control). This limit applies on a 30-day rolling average basis, during all periods of operation except startup, shutdown, and malfunction.[4] Compliance

[2] Mercury standards under NSPS Subpart Da, formerly at 40 CFR 60.45Da(a)(1), have been repealed and no longer apply to the units.

[3] 40 CFR 60.48Da(a)

[4] 40 CFR 60.48Da(a) and (b)

must be demonstrated with an SO_2 continuous emission monitoring system (CEMS) that satisfies the requirements set forth in 40 CFR 60.49Da(b). PSGC will ensure that the SO_2 CEMS installed on each unit is in compliance with NSPS Subpart Da requirements.

Pursuant to 40 CFR 60.44Da(e)(1), NO_x emissions from Units 1 and 2 may not exceed 1.0 lb/MWh gross energy output. This limit applies on a 30-day rolling average basis, during all periods of operation except startup, shutdown, and malfunction.[5] Compliance must be demonstrated with daily data from a NO_X CEMS that satisfies the requirements set forth in 40 CFR 60.49Da(c)(1) and (2). PSGC will operate a NO_X CEMS on the units in accordance with Condition 2.1.9-1a.i of the PSD permit issued for construction of the PSGS and will ensure that the CEMS meets the applicable requirements of this standard.

Semiannual (written) or quarterly (electronic) compliance reports are required to contain the daily data from the SO_2 and NO_x CEMS.[6] In addition to these CEMS, either an oxygen (O_2) or carbon dioxide (CO_2) CEMS must also monitor the exhaust gas.[7] PSGC will report this daily data, as required.

In June 2014, PSGC elected to comply with the PM emission limit of 60.42Da and PM CEMS monitoring requirement of 60.48Da(p). Because of this election, the opacity emission standard of Subpart Da, 60.42Da(b) referenced in PSD Condition 2.1.3.a.iii does not apply.

3.2.2. 40 CFR Part 60, Subpart IIII

40 CFR Part 60, Subpart IIII regulates compression ignition internal combustion engines (CI ICE) which commenced construction after July 11, 2005, where the CI ICE are manufactured after April 1, 2006. The 1,356 horsepower (hp) diesel emergency backup generator, 420 hp emergency fire pump diesel engine, 48 hp diesel welder, 20 hp emergency generator, and 26 hp emergency generator classified as insignificant activities, were constructed after July 11, 2005, and the engines were manufactured after April 1, 2006. Therefore, these insignificant activities are subject to NSPS Subpart IIII.

3.2.3. 40 CFR Part 60, Subpart JJJJ

40 CFR Part 60, Subpart JJJJ regulates stationary spark ignition internal combustion engines (SI ICE) where the SI ICE is manufactured after January 1, 2009 and has a maximum engine power of 25 HP for liquid petroleum gas (LPG) emergency engines. The 25 hp LPG emergency backup generator, classified as an insignificant activity, was manufactured after April 1, 2006. Therefore, this insignificant activity is subject to NSPS Subpart JJJJ.

3.3. NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

3.3.1. 40 CFR Part 63, Subpart ZZZZ

40 CFR Part 63, Subpart ZZZZ establishes Maximum Achievable Control Technology (MACT) standards for all stationary reciprocating internal combustion engines (RICE). The 1,356 hp diesel emergency backup generator, 420 hp emergency fire pump diesel engine, the 25 hp liquid petroleum gas emergency backup generator, 48 hp diesel welder, 20 hp emergency generator, and 26 hp emergency generator are affected sources, as defined in 40 CFR 63.6585; therefore, they are subject to the requirements of Subpart ZZZZ. These stationary RICE are operated only during emergency situations and for maintenance checks; therefore, they meet the definition of

[5] 40 CFR 60.48Da(a), §60.44Da(e)

[6] 40 CFR 60.51Da(b)

[7] 40 CFR 60.49Da(e)

emergency stationary RICE, pursuant to 40 CFR 63.6675. In addition, all of the engines are considered new stationary RICE under Subpart ZZZZ as they were installed after June 12, 2006, and December 19, 2002, respectively. PSGC will comply with the requirements of Subpart ZZZZ by complying with 40 CFR Part 60, Subpart IIII or Subpart JJJJ, as applicable, as outlined in §63.6590(c). No further requirements apply to the engines under this subpart.

3.3.2. 40 CFR Part 63, Subpart DDDDD

In the initial CAAPP application, PSGC indicated that the auxiliary boiler at the PSGS is subject to NESHAP Subpart DDDDD, which regulates boilers and process heaters at industrial, commercial and institutional facilities. This NESHAP, originally published prior to the CAAPP application, was finalized on January 31, 2013. The following requirements apply to the auxiliary boiler under Subpart DDDDD. The auxiliary boiler is considered an existing unit under the rule, as construction commenced prior to June 4, 2010.[8] The boiler fires only natural gas and is therefore in the 'unit burning gas 1 fuels' subcategory.

Units 1 and 2 are not affected sources pursuant to 40 CFR 63.7491(a) as they are electric steam generating units.

The PSD permit for the boiler included a federally enforceable capacity factor limit of ten percent. Under this limit, the boiler qualified as a limited-use boiler. In 2012, the PSD permit was modified to permit the boiler to operate at 25 percent capacity factor during 2012 operations. However, the boiler still retains a ten percent capacity factor limit for 2013 onward. As the compliance date for this boiler under Subpart DDDDD is January 31, 2016, the boiler will continue to be classified as a limited-use boiler under the rule.

Pursuant to 40 CFR 63.7500(c), the boiler is required to conduct a tune-up once every five years in accordance with procedures in 40 CFR 63.7540. PSGC must keep records of the boiler's fuel use.[9] PSGC is not required to perform a one-time energy assessment, as the boiler is a limited-use boiler; neither is it subject to any numeric emission limits.

All units in the gas 1 subcategory must submit a certification in the Notification of Compliance Status (NOCS) that a tune-up was conducted.[10] The NOCS is to be submitted according to requirements in 63.7545(e).[11] An Initial Notification was due not later than 120 days after January 31, 2016 if the unit is started prior to January 31, 2016.[12] Compliance reports with information on each tune-up must only be submitted every five years, as no emission limits apply.[13]

Required recordkeeping includes: a copy of each notification and report, a record of any fuel analysis, and a record of the total hours per year during which any alternative fuels were burned, and of the total hours per year during which the unit operated during curtailment.[14]

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[8] 40 CFR 63.7490(b)

[9] 40 CFR 63.7525(k), §63.7540(2)

[10] 40 CFR 63.7530(d)

[11] 40 CFR 63.7530(f)

[12] 40 CFR 63.7545(b)

[13] 40 CFR 63.7550(b); submittal instructions at 63.7550(h)(3)

[14] 63.7555(a)(1), 7555(a)(2), and 7555(h), respectively.

3.3.3. 40 CFR Part 63, Subpart UUUUU

In the initial CAAPP application, PSGC noted that the USEPA issued a proposed MACT standard for utility boilers on March 16, 2011, and that PSGC will comply with the rule once it is promulgated. On February 16, 2012, USEPA published the final rule in the Federal Register, and it was amended on April 19 and on August 2, 2012. PSGC is now obligated to comply with the published rule, rather than with the case-by-case MACT determination for Units 1 and 2. PSGS requests permit shield from the case-by-case MACT standard.

Both Units 1 and 2 are subject to Subpart UUUUU. They commenced construction prior to May 3, 2011; therefore they are existing units under the rule.[15] The compliance date for existing units was April 16, 2015.[16] Notifications are required in accordance with 40 CFR 63.10030.[17] The units are both coal-fired EGUs as categorized at 40 CFR 63.9990(a), and they do not burn low rank virgin coal as defined in this subpart.[18] Both EGUs must comply with emission limits in Tables 2 through 3 and work practices in Table 4 that apply to them, described below.[19] The Table 2 standards apply during all operation except startup, shutdown, and malfunction.

Pursuant to 40 CFR 63.9991(a) and Table 2 of Subpart UUUUU, Units 1 and 2 are subject to a PM, total non-mercury HAP, or individual HAP metals emission limit. Compliance must be demonstrated via PM continuous parametric monitoring system (CPMS), PM CEMS, or quarterly compliance performance testing. PSGC will demonstrate compliance with this emission limit according to the provisions of Subpart UUUUU.

Pursuant to Table 2 to this Subpart, Units 1 and 2 are subject to a hydrochloric acid (HCl) emission limit of 0.0020 lb/MMBtu heat input or 0.020 lb/MWh gross electric output. As an alternative to this limit, units using flue gas desulfurization technology may comply with an SO_2 emission limit of 0.20 lb/MMBtu or 1.5 lb/MWh.

Pursuant to Table 2 to this Subpart, Units 1 and 2 are subject to a mercury (Hg) emission limit of 1.2 pounds per trillion British thermal units (lb/TBtu) heat input or 0.013 pounds per gigawatt-hour (lb/GWh), with monitoring required using either a CEMS or sorbent trap system.

Initial performance testing is required to demonstrate that the units are in compliance with all standards before the compliance date.[20] Subsequent performance testing is required annually to demonstrate compliance.

As an additional work practice requirement, Subpart UUUUU requires that PSGC conduct a tune-up of the EGU burner and combustion controls at least once every 36 calendar months.[21] The first tune-up of the units must occur prior to the compliance date.[22] Table 3 of Subpart UUUUU also outlines specific startup and shutdown requirements for Units 1 and 2. PSGC will comply with the requirement of initial and annual tune-ups for the EGU burners and controls as well as the specific startup and shutdown requirements as outlined in the rule.

Notification, reporting, and recordkeeping requirements are outlined in 40 CFR 63.10030, §63.10031, §63.10032 and §63.10033. PSGC will comply with these requirements as outlined in the rule.

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[15] 40 CFR 63.9982(b) and (d)

[16] 40 CFR 63.9984(b)

[17] 40 CFR 63.9984(c)

[18] The heating value of the coal is expected to be 8,780 Btu/lb

[19] 40 CFR 63.9991(a)(1)

[20] 40 CFR 63.10000(c)(1), 10005(a)

[21] 40 CFR 63.10021(e). This period may be extended to 48 calendar months if neural network combustion optimization software is employed.

[22] 40 CFR 63.10005(f)

3.4. CLEAN AIR INTERSTATE RULE AND CROSS-STATE AIR POLLUTION RULE

Section 4.2.13 of the initial CAAPP application addresses compliance with the Clean Air Interstate Rule (CAIR), as set forth in 40 CFR Part 97. CAIR establishes interstate trading programs for annual SO_2, annual NO_x, and ozone season NO_x emissions from EGUs, and Illinois participates in this program.[23]

Prior to the initial CAAPP application, the USEPA had proposed a replacement rule for CAIR. The Cross-State Air Pollution Rule (CSAPR) was finalized on July 6, 2011, but the Court of Appeals for the District of Columbia vacated the rule on August 21, 2012, remanding the rule to the USEPA. On April 29, 2014, the U.S. Supreme Court issued a reversal of the decision that had vacated CSAPR and CSAPR was officially implemented. On September 7, 2016, USEPA finalized an update to CSAPR addressing the 2008 ozone NAAQS.

As of this application, Illinois state regulations have not been updated with CSAPR requirements. CAIR requirements will be sunset when the 35 IAC 225 is updated with the new CSAPR requirements.

The PSGS is currently in compliance with all provisions of CAIR and CSAPR. Monitoring and reporting requirements under CSAPR will remain the same as CAIR for the PSGS pursuant to 40 CFR Part 75 requirements. Because CSAPR has replaced CAIR in the federal regulations and because the requirements for CSAPR and CAIR are largely the same, PSGC requests only CSAPR provisions be included in the facility's CAAPP permit and CAIR requirements be identified as non-applicable in the permit.

3.5. MANDATORY GREENHOUSE GAS REPORTING

The PSGS is subject to the following requirements under USEPA's mandatory greenhouse gas reporting program as set forth in 40 CFR Part 98. To be subject to the reporting program, a facility must meet one of the following criteria:

1. The facility must contain any source category listed in Table A-3 to Subpart A of 40 CFR Part 98, starting in calendar year 2010.
2. The facility must contain any source category listed in Table A-4 to Subpart A, starting in calendar year 2010, and must emit 25,000 or more metric tons CO_2 equivalent (CO_2e) per year.
3. The facility must not meet either of the two above criteria, must have stationary fuel combustion units with an aggregate maximum rated heat input capacity of 30 million British thermal units per hour (MMBtu/hr) or greater, and must emit 25,000 or more metric tons CO_2e from those sources.[24]

The PSGS meets the first criterion above, because it contains two electrical generating units that are subject to continuous CO_2 monitoring under the Acid Rain Program. Units 1 and 2 are subject to reporting under Subpart D (discussed below). Therefore, the PSGS is subject to mandatory greenhouse gas reporting.

3.5.1. 40 CFR Part 98, Subpart C

Subpart C of the mandatory GHG reporting program includes emissions from general stationary combustion sources. The auxiliary boiler and other combustion units at the PSGS emit CO_2, methane (CH_4), and nitrous oxide (N_2O), which PSGC is obligated to quantify and report under this subpart. PSGC is not required to report emissions from emergency equipment and portable units, as both terms are defined in 40 CFR 98.6, under this

[23] State regulations implementing CAIR are set forth at 35 IAC 225.

[24] These criteria are found at 40 CFR 98.2(a).

subpart.[25] Furthermore, Units 1 and 2 are not required to report under Subpart C, as they are subject to Subpart D. PSGC complies with the requirements of Subpart C, including the calculation methodologies specified in 40 CFR 98.33.

3.5.2. 40 CFR Part 98, Subpart D

Subpart D of the mandatory GHG reporting program applies to EGUs that are subject to the requirements of the Acid Rain Program. Units 1 and 2 are subject to the requirements of the Acid Rain Program and are required to monitor CO_2 emissions continuously. Therefore, Units 1 and 2 are subject to Subpart D, and they must report CO_2 emissions from continuous monitoring under the mandatory GHG reporting program. Additionally, these units must compute CH_4 and N_2O emissions in accordance with the calculation methodology set forth in Subpart C, and report these emissions under Subpart D. PSGC complies with the reporting requirements of Subpart D.

3.5.3. 40 CFR Part 98, Subpart FF

Subpart FF of the mandatory GHG reporting rule applies to active underground coal mines liberating 36,500,000 actual cubic feet of methane per year. Due to an increase in production at the mine, PSGC has determined that they are now over the reporting threshold and the mine is subject to Subpart FF. The PSGS must report the amount of methane liberate from ventilation and degasifications systems, CH_4 destruction, and net CH_4 emissions from ventilation and degasification. PSGC complies with the reporting requirements of Subpart FF.

3.6. PM CAM PLAN

A 464-CAAPP form along with Exhibit 464 can be found in Appendix A of this application outlining the new PM Compliance Assurance Monitoring (CAM) plan for the PSGS. Notable changes from the previously submitted plan are summarized below.

- The 2011 application described a PM limit of 0.035 lb/mmBtu for Units 1 and 2, this is incorrect. The total PM_{10} limit is 0.035 lb/mmBtu and the PM limit (filterable) is 0.015 lb/mmBtu.
- According to the Illinois EPA Responsiveness Summary for Permit Number 01100065, while the PM_{10} limit for Units 1 and 2 is a Best Available Control Technology (BACT) limit and theoretically subject to CAM, the PM CEMS and CAM required for the PM limit (filterable) is sufficient to demonstrate compliance assurance with condensable PM. Therefore, the Illinois EPA's CAM requirement for PM (Condition 2.1.10.d of Permit No. 01100065) shows compliance with the 0.035 lb/mmBtu PM_{10} limit and additional CAM conditions are not required.
- Additional MACT emission limits have been added to the non-applicability section for hydrochloric acid, hydrogen fluorides, beryllium, and lead for Units 1 and 2.
- H_2SO_4 was added as a BACT emission limit for Units 1 and 2.
- Changed the basis of CO non-applicability from criterion 5b to 5c for Units 1 and 2.

[25] The definition of "emergency equipment" is "any auxiliary fossil fuel-powered equipment, such as a fire pump, that is used only in emergency situations." The definition of "portable" is "designed and capable of being carried or moved from one location to another. Indications of portability include but are not limited to wheels, skids, carrying handles, dolly, trailer, or platform." Portable equipment may not remain at the same location for more than 12 months.

APPENDIX A: NEW AND REVISED CAAPP APPLICATION FORMS

Appendix Table A-1. CAAPP Application Forms

Form/Attachment	New/Revised?	Summary of Changes
215A-CAAPP	Revised	Added New Units
283-CAAPP	Revised	Incorporated New Construction Permits, and PSD update by Reference
287-CAAPP	Revised	Incorporated the Near-Field Calculations, Updated Plans, and other Misc. items by Reference
292-CAAPP	Revised	Updated the Fees Form
297-CAAPP	Revised	Updated Insignificant Activities List to Reflect Current Operations
299-CAAPP	Revised	Updated Description for the Coal Handling Units' Control
464-CAAPP	Revised	Revised CAM Plan
500-CAAPP	New	N/A
240-CAAPP	Revised	Updates to operating modes and control device for Unit 1 and Unit 2
260-CAAPP	New & Revised	Updated Control Device Descriptions for Coal Handling Units, Updates to Bin Vent Filter Manufacturer
Attachment 3	Revised	Updated Control Device Descriptions for Coal Handling Units
Attachment 5	Revised	Updated Control Device Descriptions for Coal Handling Units and Updated Control Device Efficiency for EC118A
Attachment 8	Revised	Updated Control Device Efficiency for EC118A
Attachment 16	Revised	Updated Control Device Efficiency for EC15A1 through EC15A4
Attachment 18	Revised	Updated Control Device Efficiency for EC15A1 through EC15A4
Attachment 21	Revised	Updated Control Device Efficiency for EC15B1 through EC15B2
Attachment 23	Revised	Updated Control Device Efficiency for EC15B1 through EC15B2
391-CAAPP	Revised	Added the New Emission Units

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

EMISSION UNIT WHICH DOES NOT EMIT A HAZARDOUS AIR POLLUTANT

FOR AGENCY USE ONLY

ID NO.:

PERMIT NO.:

DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 06 / 22 / 2020

SECTION TWO — INSTRUCTIONS IN BRIEF

1) FOR THE PURPOSES OF ESTABLISHING WHETHER AN EMISSION UNIT QUALIFIES AS AN INSIGNIFICANT ACTIVITY AND PROVIDING EMISSION DATA FOR AN EMISSION UNIT IN A CAAPP APPLICATION, AN APPLICANT MAY PRESUME THAT AN EMISSION UNIT DOES NOT EMIT AN AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(B) OF THE CLEAN AIR ACT IF IT MEETS THE REQUIREMENTS OF 35 IAC 201.209.

2) PURSUANT TO 35 IAC 201.109, AN APPLICANT MAY PRESUME THAT AN EMISSION UNIT DOES NOT EMIT AN AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(B) OF THE CLEAN AIR ACT IF:

A. RAW MATERIAL, OTHER THAN FUEL, FOR THE EMISSION UNIT CONTAINS A CONCENTRATION BY WEIGHT OF SUCH POLLUTANT THAT IS EQUAL TO OR LESS THAN THE FOLLOWING:

I. 0.01 PERCENT BY WEIGHT FOR THE FOLLOWING POLLUTANTS IF MORE THAN 1 TON OF THE RAW MATERIAL IS USED ANNUALLY:

ALKYLATED LEAD COMPOUNDS
POLYCYCLIC ORGANIC MATTER
HEXACHLORO BENZENE,
MERCURY
POLYCHLORINATED BIPHENYLS
2,3,7,8-TETRACHLORODIBENZOFURANS
2,3,7,8-TETRACHLORIDIBENZO-P-DIOXIN

II. 0.01 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE IN (A)(I) ABOVE IF MORE THAN 1,000 TONS OF THE RAW MATERIAL ARE USED ANNUALLY

III. 0.1 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE ADDRESSED IN (A)(I) OR (A)(I)(II) ABOVE.

B. THE FUEL USED IN THE EMISSION UNIT DOES NOT QUALIFY AS A HAZARDOUS WASTE AND THE EMISSION UNIT IS NOT SUBJECT TO AN APPLICABLE REQUIREMENT FOR THE POLLUTANT.

3) FOR EMISSION UNIT(S) WHICH PRESUME NOT TO EMIT AIR POLLUTANTS LISTED AS HAZARDOUS PURSUANT 35 IAC 201.109, PROVIDE AS AN ATTACHMENT THE NECESSARY DATA TO SUPPORT THE CLAIM. NECESSARY DATA MAY INCLUDE MATERIAL SAFTEY DATA SHEETS, RAW MATERIAL ANNUAL USAGE RATES, ETC.

4) THIS FORM MAY BE COPIED AS NEEDED FOR ADDITIONAL EMISSION UNITS OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL WITH THE APPROPRIATE EMISSION UNIT DESIGNATION.

5) REFER TO 215A-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5. FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

SECTION THREE	EMISSION UNIT(S) DOES NOT EMIT AN HAZARDOUS AIR POLLUTANT				
EMISSION UNIT DESIGNATION	OTHER THAN FUEL USED, DOES THE RAW MATERIAL(S) FOR THE EMISSION UNIT(S) CONTAIN A POLLUTANT CONCENTRATION BY WEIGHT THAT IS EQUAL TO OR LESS THAN THE FOLLOWING:			DOES THE FUEL USED IN THE EMISSION UNIT QUALIFY AS A HAZARDOUS WASTE AND IS THE EMISSION UNIT SUBJECT TO AN APPLICABLE REQUIREMENT FOR THE POLLUTANT?	HAS DATA NECESSARY TO SUPPORT THE CLAIM THAT THE EMISSION UNIT DOES NOT EMIT AN HAZARDOUS AIR POLLUTANT BEEN PROVIDED AS AN ATTACHMENT TO THIS FORM?
	0.01 PERCENT BY WEIGHT FOR THE FOLLOWING POLLUTANTS IF MORE THAN 1 TON OF THE RAW MATERIAL IS USED ANNUALLY: ALKYLATED LEAD COMPOUNDS, POLYCYCLIC ORGANIC MATTER, HEXACHLORO BENZENE, MERCURY, POLYCHLORINATED BIPHENYLS, 2,3,7,8-TETRACHLORODIBENZOFURANS, AND 2.3,7,8-TETRACHLORIDIBENZO-P-DIOXIN?	0.01 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE LISTED TO THE LEFT IF MORE THAN 1,000 TONS OF THE RAW MATERIAL ARE USED ANNUALLY?	0.1 PERCENT BY WEIGHT FOR POLLUTANTS OTHER THAN THOSE LISTED IN THE COLUMNS TO THE LEFT?		
Coal Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Coal Processing	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Limestone Prep	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Ash Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Cooling Towers	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
PAC & HL Storage (see MSDS)	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Fuel and Oil Storage Tanks	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [ ] NO	[ ] YES [X] NO	[X] YES [ ] NO
Combustion Waste Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO
Coal Combustion Residuals Handling	[X] YES [ ] NO	[X] YES [ ] NO	[X] YES [ ] NO	[ ] YES [ ] NO	[X] YES [ ] NO

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 06/22/2020

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 1

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10A

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):
N/A

11) SERIAL NUMBER (IF KNOWN):
N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE _____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE).

This form is for natural gas when the unit is first fired. See the additional Form 240-CAAPPs for normal coal-fired operations and for dual-fired operations when coal and natural gas are fired simultaneously

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Calcium Bromide as additive to Coal, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52

20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

<7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During stages of startup, the unit will fire on natural gas and coal.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	768			
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	320			
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	320		1,712	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:
☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:
☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):
1000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 89 MM	SCF/YEAR: 1072 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: 45 MM	SCF/YEAR: 540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):
N/A
☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6
☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:
☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:
☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY): N/A	☐ SUB-BITUMINOUS COAL	☐ LIGNITE COAL	☐ BITUMINOUS COAL
	☐ ANTHRACITE COAL	☐ OTHER, SPECIFY:	

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH)	g) IS THE COAL CLEANED? ☐ YES ☐ NO
h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):	

i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:

k) FIRING TYPE (CHECK ONE):	☐ TRAVELING GRATE	☐ SPREADER STOKER % REINJECTION:
	☐ CYCLONE	☐ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM
	☐ HORIZONTALLY OPPOSED	☐ OTHER, SPECIFY: _____

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING		TYPE	SUPPLIER
N/A	a)		
	b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU).

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Compliance Certification
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	PM CEMS, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_x, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	PM CEMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager
PM CEMs Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE.

NO_x, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity PM CEMS;
Natural Gas Meter;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_x, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumetric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/PM CEMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4.

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED. OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b).(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY

ID NUMBER:

EMISSION POINT #:

DATE:

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: 06/22/2020

3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT:
Unit 1

5) NAME OF PROCESS:
Steam Generation

6) DESCRIPTION OF PROCESS:
Production of steam for powering steam electrical generating turbines

7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED:
Electrical Power Generation

8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT:
EU10A

9) MANUFACTURER OF EMISSION UNIT (IF KNOWN):
Babcock & Wilcox

10) MODEL NUMBER (IF KNOWN):
N/A

11) SERIAL NUMBER (IF KNOWN):
N/A

12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
07/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

13) DESCRIPTION OF MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE _____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for normal coal operations. See the additional Form 240-CAAPPs for natural gas-fired startup and dual-fired when natural gas and coal are used simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Calcium Bromide as additive to Coal, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

The unit is capable of co-firing coal and natural gas

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)			7,450	
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)			7,450	
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)			N/A	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

N/A

☐ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):

c) MAXIMUM CONSUMPTION	SCF/MONTH:	SCF/YEAR:
d) TYPICAL CONSUMPTION	SCF/MONTH:	SCF/YEAR:

OIL FIRING

23a) OIL TYPE (CHECK ONE):

N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY):

☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL

☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH): 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):

☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:

☐ CYCLONE ☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM

☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_X, 0.7 lb/MMBtu NO_X, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_X, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Compliance Certification
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_X, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT.

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_X, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	PM CEMS for Opacity, CEMS for SO_2, NO_X, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_X, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_X, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_x, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	PM CEMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager
PM CEMs Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_x, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity PM CEMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_x, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR)

CEMS/PM CEMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4.

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT		
41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.		
43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
44) DISCHARGE HEIGHT ABOVE GRADE (FT):		
45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:	
NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME:	
Prairie State Generating Station	
2) DATE FORM PREPARED: 06/22/2020	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT: Unit 2	
5) NAME OF PROCESS: Steam Generation	
6) DESCRIPTION OF PROCESS: Production of steam for powering steam electrical generating turbines	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Electrical Power Generation	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU10B	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Babcock & Wilcox	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 01/2012
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for natural gas when the unit is first fired. See the additional Form 240-CAAPPs for normal coal-fired operations and for dual-fired operations when coal and natural gas are fired simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Calcium Bromide as additive to Coal, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT".

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

<7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

During stages of startup, the unit will fire on natural gas and coal.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)	768			
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)	320			
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)	320		1,712	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:
☒ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:
☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):
1000

c) MAXIMUM CONSUMPTION	SCF/MONTH: 89 MM	SCF/YEAR: 1072 MM
d) TYPICAL CONSUMPTION	SCF/MONTH: 45 MM	SCF/YEAR: 540 MM

OIL FIRING

23a) OIL TYPE (CHECK ONE):
N/A
☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6
☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:
☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:
☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY):

N/A

☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☐ BITUMINOUS COAL

☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB):	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH):	g) IS THE COAL CLEANED? ☐ YES ☐ NO
h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %):	

i) MAXIMUM CONSUMPTION	TON/MONTH:	TON/YEAR:
j) TYPICAL CONSUMPTION	TON/MONTH:	TON/YEAR:

k) FIRING TYPE (CHECK ONE):

☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:

☐ CYCLONE ☐ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM

☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2.

OTHER FUEL FIRING

25a) OTHER FUEL FIRING

N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU)

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_x, 0.7 lb/MMBtu NO_x, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_x, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Compliance Certification
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_x, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT.

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_x, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	PM CEMS for Opacity, CEMS for SO_2, NO_x, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_x, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_x, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_X, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	PM CEMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager
PM CEMs Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_x, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity PM CEMS;
Natural Gas Meter;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_x, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumetric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E G., IN STACK MONITOR):

CEMS/PM CEMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED, OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION		
THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT		
41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:		
42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS		
43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):		
44) DISCHARGE HEIGHT ABOVE GRADE (FT):		
45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):		
46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.		
47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):
49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):		

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:	
NAME	FLOW DIAGRAM DESIGNATION
a)	
b)	
c)	
d)	
e)	

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.		
51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: _____ / _____ / _____
Page _____ of _____
Source Designation: _____

FUEL COMBUSTION EMISSION UNIT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER
EMISSION POINT #:
DATE:

SOURCE INFORMATION

1) SOURCE NAME:	
Prairie State Generating Station	
2) DATE FORM PREPARED: 06/22/2020	3) SOURCE ID NO. (IF KNOWN): 189808AAB

GENERAL INFORMATION

4) NAME OF EMISSION UNIT: Unit 2	
5) NAME OF PROCESS: Steam Generation	
6) DESCRIPTION OF PROCESS: Production of steam for powering steam electrical generating turbines	
7) DESCRIPTION OF ITEM OR MATERIAL PRODUCED OR ACTIVITY ACCOMPLISHED: Electrical Power Generation	
8) FLOW DIAGRAM DESIGNATION OF EMISSION UNIT: EU10B	
9) MANUFACTURER OF EMISSION UNIT (IF KNOWN): Babcock & Wilcox	
10) MODEL NUMBER (IF KNOWN): N/A	11) SERIAL NUMBER (IF KNOWN): N/A
12) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EMISSION UNIT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): 01/2012
	c) LATEST MODIFICATION (MONTH/YEAR): N/A
13) DESCRIPTION OF MODIFICATION (IF APPLICABLE): N/A	

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

14) DOES THE EMISSION UNIT HAVE MORE THAN ONE MODE OF OPERATION? ☒ YES ☐ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE PROCESS EMISSION UNIT FORM 240-CAAPP MUST BE COMPLETED FOR EACH MODE):

This form is for normal coal operations. See the additional Form 240-CAAPPs for natural gas-fired startup and dual-fired when natural gas and coal are used simultaneously.

15) PROVIDE THE NAME AND DESIGNATION OF ALL AIR POLLUTION CONTROL EQUIPMENT CONTROLLING THIS EMISSION UNIT, IF APPLICABLE (FORM 260-CAAPP AND THE APPROPRIATE 260-CAAPP ADDENDUM FORM MUST BE COMPLETED FOR EACH ITEM OF AIR POLLUTION CONTROL EQUIPMENT):

Calcium Bromide as additive to Coal, Hydrated Lime Injection, Selective Catalytic Reduction, Flue Gas Desulfurization, Dry Electrostatic Precipitator, Wet Electrostatic Precipitator, and Low NOx Burners

16) WILL EMISSIONS DURING STARTUP EXCEED EITHER THE ALLOWABLE EMISSION RATE PURSUANT TO A SPECIFIC RULE, OR THE ALLOWABLE EMISSION LIMIT AS ESTABLISHED BY AN EXISTING OR PROPOSED PERMIT CONDITION? ☐ YES ☒ NO

IF YES, COMPLETE AND ATTACH FORM 203-CAAPP, "REQUEST TO OPERATE WITH EXCESS EMISSIONS DURING STARTUP OF EQUIPMENT"

17) PROVIDE ANY LIMITATIONS ON SOURCE OPERATION AFFECTING EMISSIONS OR ANY WORK PRACTICE STANDARDS (E.G., ONLY ONE UNIT IS OPERATED AT A TIME):

None

OPERATING INFORMATION

18) ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSION RELATED, FROM WHICH THE FOLLOWING OPERATING INFORMATION, MATERIAL USAGE INFORMATION AND FUEL USAGE DATA WERE BASED AND LABEL AS EXHIBIT 240-1. REFER TO SPECIAL NOTES OF FORM 202-CAAPP.

19a) MAXIMUM OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
b) TYPICAL OPERATING HOURS	HOURS/DAY: 24	DAYS/WEEK: 7	WEEKS/YEAR: 52	
20) ANNUAL THROUGHPUT	DEC-FEB(%): 25	MAR-MAY(%): 25	JUN-AUG(%): 25	SEP-NOV(%): 25

FIRING RATE INFORMATION

21a) RATED OR DESIGN HEAT INPUT CAPACITY (MILLION BTU/HR):

7,450

b) IS MORE THAN ONE FUEL FIRED AT A TIME? ☒ YES ☐ NO

IF YES, EXPLAIN:

The unit is capable of co-firing coal and natural gas.

21c) IF HEAT INPUT CAPACITY IS 100 MILLION BTU/HOUR OR GREATER, PROVIDE FURNACE VOLUME (CUBIC FEET)
NOTE: FURNACE VOLUME IS DEFINED AS THAT VOLUME BOUNDED BY THE FRONT FURNACE WALL WHERE THE BURNER IS LOCATED, THE FURNACE SIDE WATERWALL, AND EXTENDING TO THE LEVEL JUST BELOW OR IN FRONT OF THE FIRST ROW OF CONVECTION PASS TUBES.

833,791 ft^3

	NATURAL GAS	FUEL OIL	COAL	OTHER
d) SINGLE FUEL (MAXIMUM - MILLION BTU/HOUR)			7,450	
e) SINGLE FUEL (TYPICAL - MILLION BTU/HOUR)			7,450	
f) COMBINED FUEL (TYPICAL - MILLION BTU/HOUR) (IF APPLICABLE)			N/A	

NATURAL GAS FIRING

22a) CURRENT ORIGIN OF NATURAL GAS:

N/A

☐ PIPELINE (FIRM CONTRACT) ☐ BY-PRODUCT, SPECIFY ORIGIN:

☐ PIPELINE (INTERRUPTIBLE SUPPLY CONTRACT) ☐ OTHER, - SPECIFY:

b) TYPICAL HEAT CONTENT (BTU/SCF):

c) MAXIMUM CONSUMPTION	SCF/MONTH:	SCF/YEAR:
d) TYPICAL CONSUMPTION	SCF/MONTH:	SCF/YEAR:

OIL FIRING

23a) OIL TYPE (CHECK ONE):

N/A

☐ NO. 1 ☐ NO. 2 ☐ NO. 4 ☐ NO. 5 ☐ NO. 6

☐ OTHER, SPECIFY (INCLUDE GENERATOR OR SUPPLIER):

b) TYPICAL HEAT CONTENT:

☐ BTU/LB - OR - ☐ BTU/GAL

c) IS OIL USED ONLY AS A RESERVE FUEL? ☐ YES ☐ NO

d) TYPICAL SULFUR CONTENT AS FIRED (WT %):

e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	GAL/MONTH:	GAL/YEAR:
g) TYPICAL CONSUMPTION	GAL/MONTH:	GAL/YEAR:

h) FIRING DIRECTION:

☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER, SPECIFY:

SOLID FUEL FIRING

*24a) SOLID FUEL TYPE (CHECK ALL THAT APPLY):
☐ SUB-BITUMINOUS COAL ☐ LIGNITE COAL ☒ BITUMINOUS COAL
☐ ANTHRACITE COAL ☐ OTHER, SPECIFY:

b) TYPICAL HEAT CONTENT AS FIRED (BTU/LB): 8,780	c) TYPICAL MOISTURE CONTENT AS FIRED (WT %): 13%
d) TYPICAL SULFUR CONTENT AS FIRED (WT %): 4%	e) TYPICAL ASH CONTENT AS FIRED (WT %): 23.9%
f) TYPICAL FINES CONTENT (% LESS THAN 1/8 INCH) 100%	g) IS THE COAL CLEANED? ☐ YES ☒ NO

h) HOW MUCH COAL REFUSE IS IN THE FUEL? (WT %): Less than 1%

i) MAXIMUM CONSUMPTION	TON/MONTH: 0.63 MM Tons	TON/YEAR: 7.5 MM Tons
j) TYPICAL CONSUMPTION	TON/MONTH: 0.575 MM Tons	TON/YEAR: 6.9 MM Tons

k) FIRING TYPE (CHECK ONE):
☐ TRAVELING GRATE ☐ SPREADER STOKER % REINJECTION:
☐ CYCLONE ☒ PULVERIZED, TYPE (CIRCLE ONE): WET BOTTOM DRY BOTTOM
☐ HORIZONTALLY OPPOSED ☐ OTHER, SPECIFY:

*NOTE: IF REQUIRED, SUBMIT COPIES OF THOSE PORTIONS OF COAL SUPPLY CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF COAL, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND STATE THE MANNER BY WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. ATTACH AND LABEL AS EXHIBIT 240-2

OTHER FUEL FIRING

25a) OTHER FUEL FIRING: N/A

	TYPE	SUPPLIER
a)		
b)		

b) TYPICAL HEAT CONTENT (SPECIFY UNITS):	c) TYPICAL NITROGEN CONTENT AS FIRED (WT %):
d) TYPICAL SULFUR CONTENT AS FIRED (WT %):	e) TYPICAL ASH CONTENT AS FIRED (WT %):

f) MAXIMUM CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):
g) TYPICAL CONSUMPTION	(SPECIFY UNITS/MONTH):	(SPECIFY UNITS/YEAR):

APPLICABLE RULES

26) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., PARTICULATE MATTER, IAC 212.206, <= 0.10 LBS/MMBTU).

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
Particulates	40 CFR 60 Subpart Da, 35 IAC 212.204 (please note incorrect reference in PSD Permit)	0.03 lb/MMBtu, 0.1 lb/MMBtu
Opacity	40 CFR 60 Subpart Da, 35 IAC 212.122	Less than or equal to 20%
Sulfur Dioxide, Nitrogen Oxides, Carbon Monoxide	40 CFR Subpart Da, 35 IAC 217.121 & 216.121 respectively	98% reduction of SO_2, 0.20 lb/MMBtu heat input NO_x, 0.7 lb/MMBtu NO_x, 200 ppm CO
HAPs, Mercury, Hydrochloric Acid	40 CFR 63 Subpart B, 35 IAC 225 Subpart B	Case-by-Case MACT, 0.008 lb/GWh

27) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	35 IAC 201.301	Periodic Monitoring Recordkeeping
HAPs	40 CFR 63.10	Case-by-Case MACT Recordkeeping
All Regulated Criteria Pollutants	40 CFR 60 Subpart Da, 40 CFR 52.21 (PSD)	CEMS records for SO_2, NO_x, and CO, records of VOM, Hg and other by fuel

28) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
All Regulated Criteria Pollutants	40 CFR 64.9, 35 IAC 201.302	Periodic Monitoring and CEMs Reporting, Annual Compliance Certification
HAPs	40 CFR 63.10	Case-by-Case MACT Reporting
Sulfur Dioxide, Nitrogen Oxides and Opacity	40 CFR 60 Subpart Da, 40 CFR 75, 40 CFR 52.21 (PSD)	CEMS Records Reporting for SO_2 and NO_x, Excess Opacity Reports

29) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
Opacity, SO_2, NO_x, CO, Hg	40 CFR 52.21, 40 CFR 60 Da, 35 IAC 201.401, 35 IAC 225 Subpart B	PM CEMS for Opacity, CEMS for SO_2, NO_x, CO, and Hg
Sulfur Dioxide, Nitrogen Oxides	40 CFR 75, 35 IAC 201.401	Acid Rain CEMS (SO_2, NO_x, CO_2/O_2)
HAPs	40 CFR 63.8, 35 IAC 201.281	Periodic Monitoring

30) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
Opacity, NO_x, CO, PM, VOM, SO_2, HCl, HFl, H_2SO_4 Mist, and Mercury	40 CFR52.21 (PSD Permit Conditions), 40 CFR 60 Subpart Da, and 35 IAC 201.401	Initial Compliance Test, CEMS Performance Tests, and Subsequent Periodic Source Testing
Other Criteria Pollutants	35 IAC 201.282	Initial Compliance Tests, Subsequent Periodic Monitoring and/or Source Tests if Requested by IEPA
Opacity, HAPs	40 CFR 63.7, IAC 201.282	Initial Compliance and Case-by-Case MACT Source Testing, and Periodic Monitoring if Requested by IEPA

31) DOES THE EMISSION UNIT QUALIFY FOR AN EXEMPTION FROM AN OTHERWISE APPLICABLE RULE? ☐ YES ☒ NO

IF YES, THEN LIST BOTH THE RULE FROM WHICH IT IS EXEMPT AND THE RULE WHICH ALLOWS THE EXEMPTION. PROVIDE A DETAILED EXPLANATION JUSTIFYING THE EXEMPTION. INCLUDE DETAILED SUPPORTING DATA AND CALCULATIONS. ATTACH AND LABEL AS EXHIBIT 240-3, OR REFER TO OTHER ATTACHMENT(S) WHICH ADDRESS AND JUSTIFY THIS EXEMPTION.

COMPLIANCE INFORMATION

32) IS THE EMISSION UNIT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

33) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance will be demonstrated per testing and monitoring requirements as outlined in the final PSD Permit and issued CAAPP Permit.

34) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the final PSD Permit and issued CAAPP Permit.

TESTING, MONITORING, RECORDKEEPING AND REPORTING

35a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
SO_2, NO_X, CO, Hg, and either O_2 or CO_2	Lb/hr	CEMs	Continuous
Opacity	% Opacity	PM CEMs	Continuous

35b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
CEMS Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager
PM CEMs Records	Electronic or Hardcopy	Environmental Manager	Environmental Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

36a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

NO_x, SO_2, CO, Mercury, PM, O_2 or CO_2 CEMS;
Opacity PM CEMS;
Natural Gas Meter;
Mercury and Chlorine in Coal;
Heat Input, and Volumetric Flow Meter

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED (E.G., OPACITY)?

NO_x, SO_2, CO, Mercury, PM, and O_2 or CO_2 emission rates
Opacity
Natural gas usage
Mercury and Chlorine in Coal
Heat Input (MMBtu/hr) and Volumentric Flow (ACFM)

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., IN STACK MONITOR):

CEMS/PM CEMS are in stack
Natural gas is monitored as it enters the facility
Mercury and Chlorine are monitored via the lab
Heat Input is monitored at the boiler and flow is monitored by the CEMs

36d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☒ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

Mercury and Chlorine content in the coal are manually monitored via lab testing

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☒ YES ☐ NO

IF NO, EXPLAIN:

f) IS EACH MONITOR OPERATED AT ALL TIMES THE ASSOCIATED EMISSION UNIT IS IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN:

37) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 240-4:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

38) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
Opacity and Emission Measurements in Excess of Requirements of NSPS Da	NSPS Da Report	Quarterly
Opacity and Emission Measurements in Excess of Requirements of the PSD Permit	Excess Emissions/Deviations	Quarterly
Hourly Emissions Data	Acid Rain Program	Quarterly

(39)EMISSION INFORMATION

REGULATED AIR POLLUTANT		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:	See Form 260-CAAPP					( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM						( )				
	TYPICAL						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-5.

[1]CHECK UNCONTROLLED EMISSION RATE BOX IF CONTROL EQUIPMENT IS USED. OTHERWISE CHECK AND PROVIDE THE ACTUAL EMISSION RATE TO ATMOSPHERE, INCLUDING INDOORS. SEE INSTRUCTIONS.
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(40) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		☐ [1]ACTUAL EMISSION RATE ☐ [1]UNCONTROLLED EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
See Form 260-CAAPP		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 240-6.

[1]PROVIDE UNCONTROLLED EMISSIONS IF CONTROL EQUIPMENT IS USED. OTHERWISE, PROVIDE ACTUAL EMISSIONS TO THE ATMOSPHERE, INCLUDING INDOORS. CHECK BOX TO SPECIFY.
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

41) FLOW DIAGRAM DESIGNATION OF EXHAUST POINT:

42) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

43) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

44) DISCHARGE HEIGHT ABOVE GRADE (FT):

45) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

46) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

47) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
48) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

49) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

50) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

51a) LATITUDE:	b) LONGITUDE:	
52) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:
06/22/2020

3) SOURCE ID NO (IF KNOWN):
189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Chutes with Dust Suppression Spray Systems, Dust Suppression Sprays, Enclosures, and Dust Collectors

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC104, EC118A, EC105A, EC105B, EC107, EC102A, EC102B-1, EC102B-2, EC102C, EC16B, EC44/45, EC49-1, EC49-2, EC48, EC41B1, EC41B2, EC1/50B, and EC2

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Dust Solutions, Inc., Airtrol, and FMC (See Attachment 5)

7) MODEL NUMBER (IF KNOWN):
TBD, 192RRWT120 or 484RRWT120 (See Attachment 5)

8) SERIAL NUMBER (IF KNOWN):
TBD

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)

a) CONSTRUCTION (MONTH/YEAR):
09/2007

b) OPERATION (MONTH/YEAR):
05/2011

c) LATEST MODIFICATION (MONTH/YEAR):
N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 5	

u

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1), 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY).

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Chutes with Dust Suppression Spray System – Conveyors are equipped with a dry dust suppression spray system
Dust Collector – All emissions are collected via a dust collector before venting to the atmosphere.
Dust Suppression Spray – Spray of water or a surfactant is used to increase moisture thus controlling dust
Enclosure – The emission point is enclosed by a structure limiting the amount of dust escaping

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	See Attachment 5						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Guarantee	
CONTROL: Manufacturer's Guarantee	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE EMISSION RATE			[2]PERMITTED EMISSION RATE	
		LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	[5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE					ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 6

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT): NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation
_____

AIR POLLUTION CONTROL EQUIPMENT DATA AND INFORMATION

FOR AGENCY USE ONLY
ID NUMBER:
CONTROL EQUIPMENT #:
DATE:

THIS FORM MUST BE COMPLETED FOR EACH AIR POLLUTION CONTROL EQUIPMENT. COMPLETE AND PROVIDE THIS FORM IN ADDITION TO THE APPLICABLE ADDENDUM FORM 260-A THROUGH 260-K. A SEPARATE FORM MUST BE COMPLETED FOR EACH MODE OF OPERATION OF AIR POLLUTION CONTROL EQUIPMENT FOR WHICH A PERMIT IS BEING SOUGHT.

SOURCE INFORMATION

1) SOURCE NAME:
Prairie State Generating Station

2) DATE FORM PREPARED:	3) SOURCE ID NO. (IF KNOWN):
06/22/2020	189808AAB

GENERAL INFORMATION

4) NAME OF AIR POLLUTION CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
Bin Vent Filter

5) FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT AND/OR CONTROL SYSTEM:
EC14A and EC14B

6) MANUFACTURER OF CONTROL EQUIPMENT (IF KNOWN):
Donaldson Co Inc

7) MODEL NUMBER (IF KNOWN):	8) SERIAL NUMBER (IF KNOWN):
169FS12	N/A

9) DATES OF COMMENCING CONSTRUCTION, OPERATION AND/OR MOST RECENT MODIFICATION OF THIS EQUIPMENT (ACTUAL OR PLANNED)	a) CONSTRUCTION (MONTH/YEAR): 09/2007
	b) OPERATION (MONTH/YEAR): March/April 2015
	c) LATEST MODIFICATION (MONTH/YEAR): N/A

10) BRIEFLY DESCRIBE MODIFICATION (IF APPLICABLE):
N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

11) LIST ALL EMISSION UNITS AND OTHER CONTROL EQUIPMENT DUCTING EMISSIONS TO THIS CONTROL EQUIPMENT:

NAME	DESIGNATION OR CODE NUMBER
See Attachment 26	

12) DOES THE CONTROL EQUIPMENT HAVE MORE THAN ONE MODE OF OPERATION? ☐ YES ☒ NO

IF YES, EXPLAIN AND IDENTIFY WHICH MODE IS COVERED BY THIS FORM (NOTE: A SEPARATE AIR POLLUTION CONTROL EQUIPMENT FORM 260-CAAPP MUST BE COMPLETED FOR EACH MODE):

13) IDENTIFY ALL ATTACHMENTS TO THIS FORM RELATED TO THIS AIR POLLUTION CONTROL EQUIPMENT(E.G., TECHNICAL DRAWINGS):

N/A

OPERATING SCHEDULE

14) IDENTIFY ANY PERIOD WHEN THE CONTROL EQUIPMENT WILL NOT BE OPERATING DUE TO SCHEDULED MAINTENANCE AND/OR REPAIRS WHEN THE FEEDING EMISSION UNIT(S) TO THIS CONTROL EQUIPMENT IS/ARE IN OPERATION:

None

15a) IDENTIFY ANY PERIODS DURING OPERATION OF THE FEEDING EMISSION UNIT(S) WHEN THE CONTROL EQUIPMENT IS/ARE NOT USED:

None

b) IS THIS CONTROL EQUIPMENT IN OPERATION AT ALL OTHER TIMES THAT THE FEEDING EMISSION UNIT(S) IS/ARE IN OPERATION? ☒ YES ☐ NO

IF NO, EXPLAIN AND PROVIDE THE DURATION OF THE CONTROL EQUIPMENT DOWNTIME:

APPLICABLE RULES

16) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT (E.G., VOM, IAC 218.207(b)(1): 81% OVERALL & 90% CONTROL DEVICE EFF.):

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
See Form 220-CAAPP		

17) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

18) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

19) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT:

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

20) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
See Form 220-CAAPP		

COMPLIANCE INFORMATION

21) IS THE CONTROL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION

22) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

See Form 220-CAAPP

23) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

See Form 220-CAAPP

TESTING, MONITORING, RECORDKEEPING AND REPORTING

24a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E.G., HOURLY, DAILY, WEEKLY):

PARAMETER	UNIT OF MEASUREMENT	METHOD OF MEASUREMENT	FREQUENCY
See Form 220-CAAPP			

24b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS.

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
See Form 220-CAAPP			

c) IS COMPLIANCE OF THE CONTROL EQUIPMENT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

25a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

See Form 220-CAAPP

b) WHAT OPERATING PARAMETER(S) IS(ARE) BEING MONITORED (E.G., COMBUSTION CHAMBER TEMPERATURE)?

See Form 220-CAAPP

c) DESCRIBE THE LOCATION OF EACH MONITOR (E.G., EXIT OF COMBUSTION CHAMBER):

See Form 220-CAAPP

25d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

See Form 220-CAAPP

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

f) IS EACH MONITOR OPERATED AT ALL TIMES THE CONTROL EQUIPMENT IS IN OPERATION? ☐ YES ☐ NO

IF NO, EXPLAIN:

See Form 220-CAAPP

26) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-1:

TEST DATE	TEST METHOD	TESTING COMPANY	OPERATING CONDITIONS	SUMMARY OF RESULTS
See Form 220-CAAPP				

27) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
See Form 220-CAAPP		

CAPTURE AND CONTROL

28) DESCRIBE THE CAPTURE SYSTEM USED TO CONTAIN, COLLECT AND TRANSPORT EMISSIONS TO THE CONTROL EQUIPMENT. INCLUDE ALL HOODS, DUCTS, FANS, ETC. ALSO INCLUDE THE METHOD OF CAPTURE USED AT EACH EMISSION POINT. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 260-2):

Bin Vent Filter – The emissions are collected via a vent filter before venting to the atmosphere.

29) ARE FEATURES OF THE CAPTURE SYSTEM ACCURATELY DEPICTED IN THE FLOW DIAGRAM CONTAINED IN THIS APPLICATION? ☒ YES ☐ NO

IF NO, A SKETCH SHOWING THE FEATURES OF THE CAPTURE SYSTEM SHOULD BE ATTACHED AND LABELED AS EXHIBIT 260-3.

30) PROVIDE THE ACTUAL (MINIMUM AND TYPICAL) CAPTURE SYSTEM EFFICIENCY, CONTROL EQUIPMENT DESTRUCTION/REMOVAL EFFICIENCY, AND THE OVERALL REDUCTION EFFICIENCY PROVIDED BY THE COMBINATION OF THE CAPTURE SYSTEM AND CONTROL EQUIPMENT FOR EACH REGULATED AIR POLLUTANT TO BE CONTROLLED. ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH THESE EFFICIENCIES WERE BASED AND LABEL AS EXHIBIT 260-4.

a) CONTROL PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%) (MIN)	CAPTURE SYSTEM EFFICIENCY (%) (TYP)	CONTROL EQUIPMENT EFFICIENCY (%) (MIN)	CONTROL EQUIPMENT EFFICIENCY (%) (TYP)	OVERALL REDUCTION EFFICIENCY (%) (MIN)	OVERALL REDUCTION EFFICIENCY (%) (TYP)
i	See Attachment 26						
ii							
iii							

iv. EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

b) METHOD USED TO DETERMINE EACH OF THE ABOVE EFFICIENCIES (E.G., STACK TEST, MATERIAL BALANCE, MANUFACTURER'S GUARANTEE, ETC.) AND THE DATE LAST TESTED, IF APPLICABLE:

EFFICIENCY DETERMINATION METHOD	DATE LAST TESTED
CAPTURE: Manufacturer's Guarantee	
CONTROL: Manufacturer's Guarantee	
OVERALL: Engineering Calculation	

c) REQUIRED PERFORMANCE:

	REGULATED AIR POLLUTANT	CAPTURE SYSTEM EFFICIENCY (%)	CONTROL EQUIPMENT EFFICIENCY (%)	OVERALL REDUCTION EFFICIENCY (%)	APPLICABLE RULE
i	N/A				
ii					
iii					

iv EXPLAIN ANY OTHER REQUIRED LIMITS ON CONTROL EQUIPMENT PERFORMANCE SUCH AS OUTLET CONCENTRATION, COOLANT TEMPERATURE, ETC.:

(31)EMISSION INFORMATION

REGULATED AIR POLLUTANT		[1]ACTUAL EMISSION RATE: LBS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[3]OTHER TERMS	[4]DM	ALLOWABLE BY RULE EMISSION RATE: [5]RATE (UNITS)	APPLICABLE RULES	TONS PER YEAR (TONS/YR)	[2]PERMITTED EMISSION RATE: RATE (UNITS)	TONS PER YEAR (TONS/YR)
CARBON MONOXIDE (CO)	MAXIMUM:						( )				
	TYPICAL:						( )				
LEAD	MAXIMUM:						( )				
	TYPICAL:						( )				
NITROGEN OXIDES (NOx)	MAXIMUM:						( )				
	TYPICAL:						( )				
PARTICULATE MATTER (PART)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
PARTICULATE MATTER <= 10 MICROMETERS (PM10)	MAXIMUM:	Inc. by Reference					( )				
	TYPICAL:						( )				
SULFUR DIOXIDE (SO2)	MAXIMUM:						( )				
	TYPICAL:						( )				
VOLATILE ORGANIC MATERIAL (VOM)	MAXIMUM:						( )				
	TYPICAL:						( )				
OTHER, SPECIFY: _____	MAXIMUM:						( )				
	TYPICAL:						( )				
EXAMPLE: PARTICULATE MATTER	MAXIMUM:	*5.00*	*21.9*	*0.3 GR/DSCF*		*1*	*6.0 (LBS/HR)*	*212.321*	*26.28*	*5.5 LBS/HR*	*22*
	TYPICAL:	*4.00*	*14.4*	*0.24 GR/DSCF*		*4*	*5.5 (LBS/HR)*	*212.321*	*19.80*		

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-5.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]PROVIDE THE EMISSION RATE THAT WILL BE USED AS A PERMIT SPECIAL CONDITION. THIS LIMIT WILL BE USED TO DETERMINE THE PERMIT FEE.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G. PPM, GR/DSCF, ETC.)
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)
[5]RATE - ALLOWABLE EMISSION RATE SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

(32) HAZARDOUS AIR POLLUTANT EMISSION INFORMATION

HAP INFORMATION		[1]ACTUAL EMISSION RATE				ALLOWABLE BY RULE	
NAME OF HAP EMITTED	[2]CAS NUMBER		POUNDS PER HOUR (LBS/HR)	TONS PER YEAR (TONS/YR)	[3]OTHER TERMS	[4]DM	[5]RATE OR STANDARD	APPLICABLE RULE
N/A		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
		MAXIMUM						
		TYPICAL						
EXAMPLE:		MAXIMUM:	*10.0*	*1.2*		*2*	*98% by wt control device*	*CFR 61*
Benzene	*71432*	TYPICAL:	*8.0*	*0.8*		*2*	*leak-tight trucks*	*61.302(b),(d)*

IMPORTANT: ATTACH CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, ON WHICH EMISSIONS WERE DETERMINED AND LABEL AS EXHIBIT 260-6.

[1]PROVIDE CONTROLLED EMISSIONS (E.G., THE EMISSIONS THAT WOULD RESULT AFTER ALL CONTROL AND CAPTURE EFFICIENCIES ARE ACCOUNTED FOR).
[2]CAS - CHEMICAL ABSTRACT SERVICE NUMBER.
[3]PLEASE PROVIDE ANY OTHER EMISSION RATE WHICH IS COMMONLY USED, REQUIRED BY A SPECIFIC LIMITATION OR THAT WAS MEASURED (E.G., PPM, GR/DSCF, ETC.).
[4]DM - DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS, 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).
[5]RATE - ALLOWABLE EMISSION RATE OR STANDARD SPECIFIED BY MOST STRINGENT APPLICABLE RULE.

EXHAUST POINT INFORMATION

33) DESCRIPTION OF EXHAUST POINT (STACK, VENT, ROOF MONITOR, INDOORS, ETC.). IF THE EXHAUST POINT DISCHARGES INDOORS, DO NOT COMPLETE THE REMAINING ITEMS.

See Attachment 27

34) DISTANCE TO NEAREST PLANT BOUNDARY FROM EXHAUST POINT DISCHARGE (FT):

35) DISCHARGE HEIGHT ABOVE GRADE (FT):

36) GOOD ENGINEERING PRACTICE (GEP) HEIGHT, IF KNOWN (FT):

37) DIAMETER OF EXHAUST POINT (FT). NOTE: FOR A NON CIRCULAR EXHAUST POINT, THE DIAMETER IS 1.128 TIMES THE SQUARE ROOT OF THE AREA.

38) EXIT GAS FLOW RATE	a) MAXIMUM (ACFM):	b) TYPICAL (ACFM):
39) EXIT GAS TEMPERATURE	a) MAXIMUM (°F):	b) TYPICAL (°F):

40) DIRECTION OF EXHAUST (VERTICAL, LATERAL, DOWNWARD):

41) LIST ALL EMISSION UNITS AND CONTROL DEVICES SERVED BY THIS EXHAUST POINT:

	NAME	FLOW DIAGRAM DESIGNATION
a)		
b)		
c)		
d)		
e)		
f)		
g)		

42) WHAT PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS ARE BEING DUCTED TO THIS EXHAUST POINT (%)?

43) IF THE PERCENTAGE OF THE CONTROL EQUIPMENT EMISSIONS BEING DUCTED TO THE EXHAUST POINT IS NOT 100%, THEN EXPLAIN WHERE THE REMAINING EMISSIONS ARE BEING EXHAUSTED TO:

THE FOLLOWING INFORMATION NEED ONLY BE SUPPLIED IF READILY AVAILABLE.

44a) LATITUDE:	b) LONGITUDE:	
45) UTM ZONE:	b) UTM VERTICAL (KM):	c) UTM HORIZONTAL (KM):

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

REQUEST FOR A TITLE 1 INCORPORATION INTO THE CAAPP: T1, T1 (REVISED (T1R), T1 NEW (T1N)	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SECTION ONE — SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO: 189808AAB

3) DATE FORM PREPARED: 6 / 22 / 2020

SECTION TWO — INSTRUCTIONS IN BRIEF

1) COMPLETE THE FOLLOWING FORM WHEN REQUESTING TO INCORPORATE EXISTING TITLE 1 REQUIREMENTS INTO THE CAAPP PERMIT, TO REVISE EXISTING TITLE 1 REQUIREMENTS IN THE CAAPP PERMIT, OR TO ESTABLISH NEW TITLE 1 REQUIREMENTS IN THE CAAPP PERMIT.
2) ATTACH A COPY OF THE PERMIT THAT IS REQUESTED TO BE INCORPORATED.
3) REFER TO 283-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE — PERMITEE'S REQUESTS

WHAT ARE YOU REQUESTING TO INCORPORATE INTO THE CAAPP PERMIT:

CURRENT TITLE I REQUIREMENTS *(NO CHANGES IN THE CURRENTLY ESTABLISHED TI PERMIT CONDITIONS)*	☒
TO REVISE EXISTING TITLE 1 CONDITIONS IN THE CURRENT CAAPP PERMIT *(T1R REQUEST)*.	☒
TO ESTABLISH NEW TITLE 1 CONDITIONS IN THE CURRENT CAAPP PERMIT *(TIN REQUEST)*. (E.G., CAN BE USED FOR EMISSION UNITS THAT DID NOT PREVIOUSLY RECEIVE A CONSTRUCTION PERMIT)	☐

CERTIFICATE STATEMENT

BY THIS FORM, THE AUTHORIZED REPRESENTATIVE OF THE ABOVE REFERENCED SOURCE REQUESTS THAT THE ILLINOIS EPA CONSIDER THE PENDING CAAPP APPLICATION TO BE A JOINT TITLE I/TITLE V CAAPP PERMIT APPLICATION. THE INFORMATION CONTAINED IN THE CAAPP APPLICATION IS THE CURRENT AND ACCURATE INFORMATION FOR THE SOURCE.

IN CASES WHERE THE REQUEST FOR A NEW EMISSION LIMIT OR AN EMISSION LIMIT GREATER THAN THAT IN AN EXISTING PERMIT, A COMPLETED APPLICABLE RULES ANALYSIS HAS BEEN COMPLETED ON PAGE 3 WHICH ADDRESSES THE APPLICABILITY, AND COMPLIANCE WHERE DETERMINED APPLICABLE, OF RELEVANT TITLE I PROVISION. SPECIAL EXPLANATORY EMPHASIS SHALL BE PLACED ON 40 CFR 52.21 - FEDERAL PREVENTION OF SIGNIFICANT DETERIORATION (PSD) AND 35 ILL. ADM. CODE PART 203 -- MAJOR STATIONARY SOURCES CONSTRUCTION AND MODIFICATION.

IN ADDITION, WE THE PERMITTEE AGREE TO WAIVE THE TIME FRAMES CONTAINED IN SECTION 39 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT FOR PROCESSING OF THE TITLE I PERMIT AND AGREE THAT ILLINOIS EPA MAY PROCESS THIS REQUEST FOR A COMBINED TITLE I/ TITLE V CAAPP PERMIT WITHIN THE TIME FRAMES REQUIRED FOR CAAPP PERMIT ISSUANCE.

SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION AS AMENDED BY THIS SUPPLEMENT, ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: Randy Short
AUTHORIZED SIGNATURE

Chief Operating Officer
TITLE OF SIGNATORY

Randy Short
TYPED OR PRINTED NAME OF SIGNATORY

07 / 17 / 2020
DATE

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT 415 ILCS 5/39.5 FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION MOREOVER AS ALSO PROVIDED IN THAT SE60N FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

SECTION FOUR		TITLE 1 (T1) INCORPORATION LISTING					
REQUEST NO.	PERMIT NO.	INCORPORATE ALL OF THE REQUIREMENTS FOR THIS PERMIT NO. IN THE CAAPP	INCORPORATE INTO THE CAAPP ALL OF THE REQUIREMENTS FROM THIS PERMIT NO. EXCEPT THE FOLLOWING SPECIFIC CONDITIONS				PROVIDE RATIONALE FOR NOT REQUESTING THE INCORPORATION OF THE SPECIFIC CONDITIONS
1	01100065	☒ YES ☐ NO	☐ YES ☐ NO	CONDITION: / PAGE:	CONDITION: / PAGE:	CONDITION: / PAGE:	
2	08010051	☒ YES ☐ NO	☐ YES ☐ NO	CONDITION: / PAGE:	CONDITION: / PAGE:	CONDITION: / PAGE:	
3	11080076	☒ YES ☐ NO	☐ YES ☐ NO	CONDITION: / PAGE:	CONDITION: / PAGE:	CONDITION: / PAGE:	
4	17020018	☒ YES ☐ NO	☐ YES ☐ NO	CONDITION: / PAGE:	CONDITION: / PAGE:	CONDITION: / PAGE:	
5		☐ YES ☐ NO	☐ YES ☐ NO	CONDITION: / PAGE:	CONDITION: / PAGE:	CONDITION: / PAGE:	

SECTION FIVE		TITLE 1 REVISED (TR1)OR TITLE 1 NEW (T1N) INCORPORATION REQUEST LISTING					
REQUEST NO.	PERMIT NO.	CONDITION NO. AND PAGE NO.	T1R OR T1N	CONDITION TYPE[A]	REQUESTED CHANGE OR ADDITION. BE SPECIFIC. ATTACHING ADDITIONAL PAGES IF NECESSARY.	REASON[B]	FURTHER EXPLANATION FOR REQUEST IF NECESSARY
1	01100065	CONDITION: 2.1.2(c)(ii) / PAGE: 19	☒ T1R ☐ T1N	☐ 1 ☐ 2 ☒ 3	Remove 2.1.2(c)(ii). Replace the conditions with 40 CFR 63 Subpart UUUUU as appropriate.	Other	New NESHAP Subpart UUUUU regulation
		CONDITION: / PAGE:	☐ T1R ☐ T1N	☐ 1 ☐ 2 ☐ 3			

A CHOOSE ONE OF THE FOLLOWING: 1) NATURAL MINOR, 2) PSD/NSR AVOIDANCE, 3) PSD/NSR.

B CHOOSE OF THE FOLLOWING REASONS AND BRIEFLY EXPLAIN IF NECESSARY: 1) BUSINESS DECISION (OPERATING NEEDS, ETC.); 2) REMOVAL OR ADDITION OF PROCESSES AT THE SOURCE; 3) INCLUSION OR REMOVAL OF A CONTROL DEVICE; 4) CHEMICAL REFORMULATION (E.G., SWITCHING A PETROLEUM BASED TO A WATER BASED COATING); 5) FUEL SWITCHING (E.G., COAL TO NATURAL GAS, ETC.); 6) METHODOLOGY CHANGE (E.G., SWITCHING A PETROLEUM SOLVENT TO AQUEOUS SOLUTION); 7)CHANGES IN THE EMISSION FACTOR(S) USED FOR CALCULATIONS; OR 8) OTHER (EXPLAIN)

SECTION SIX ***APPLICABLE RULES REVIEW FOR T1R OR T1N REQUESTS (COMPLETE FOR EACH T1R OR T1N)***

EMISSION UNIT DESIGNATION AFFECTED BY T1N REQUEST:

1) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATION(S) SET BY RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT

REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
HAPs	40 CFR UUUUU Table 2	Emission limitations for PM, HCl, SO_2, and Hg

2) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT

REGULATED AIR POLLUTANT(S)	RECORDKEEPING RULE(S)	REQUIREMENT(S)
N/A		

3) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT

REGULATED AIR POLLUTANT(S)	REPORTING RULE(S)	REQUIREMENT(S)
N/A		

4) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE TO THIS EMISSION UNIT

REGULATED AIR POLLUTANT(S)	MONITORING RULE(S)	REQUIREMENT(S)
N/A		

5) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE TO THIS EMISSION UNIT :

REGULATED AIR POLLUTANT(S)	TESTING RULE(S)	REQUIREMENT(S)
N/A		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

CAAPP APPLICATION INCORPORATION BY REFERENCE

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

SECTION ONE SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) SOURCE ID NO.: 189808AAB

3) DATE FORM PREPARED: 06 / 24 / 2020

SECTION TWO INSTRUCTIONS IN BRIEF

1. COMPLETE THIS FORM IF THE APPLICANT REQUESTS TO UTLIZE INFORMATION PROVIDED IN A PRIOR CAAPP APPLICATION. INCORPORATION BY REFERENCE MAY BE IN FULL OR IN PART OF THE APPLICATION. THE MATERIAL INCORPORATED MUST REMAIN CORRECT, CURRENT, AND COMPLETE.
2. COMPLETE SECTION THREE IF THE APPLICANT REQUESTS TO INCORPORATE AN ENTIRE APPLICATION. COMPLETE SECTION FOUR IF THE APPLICANT REQUESTS TO INCORPORATE ONLY PORTIONS OF AN APPLICATION. IN EITHER CASE, IDENTIFY AND DESCRIBE THE ITEM TO BE INCORPORATED (E.G., STEAM PLANT, NOX CONTROL SYSTEM, TANKS 32-38, ETC.) AND THE PAGE NUMBERS IN THIS APPLICATION WHERE THE INCORPORATED PAGES WILL BE PLACED, AND FOR PARTIAL INCORPORATIONS THE PAGE NUMBERS FROM THE APPLICATION TO INCORPORATE FROM.
3. UTILIZE A PLACEHOLDER IN THE APPLICATION NOTING THE INCORPORATION BY REFERENCE.
4. BE SURE THE PORTIONS OF THE 200-CAAPP WHICH ADDRESS INCORPORATIONS BY REFERENCE CORRECTLYREFLECT THE INFORMATION CONTAINED ON THIS FORM.REFER TO CAAPP 200 INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.
5. THE ILLINOIS EPA ENCOURAGES APPROPRIATE USE OF INCORPORATION BY REFERENCE, WHICH GENERALLY INCLUDES THOUGHTFULLY INCORPORATING LARGE GROUPS OF INFORMATION (E.G., STEAM PLANT) TO FACILITATE THE PERMITTING PROCESS FOR THE PERMITTEE AND THE ILLINOIS EPA.
6. REFER TO 287-CAAPP INSTRUCTIONS FOR FURTHER GUIDANCE ON COMPLETING THIS FORM.

SECTION THREE INCORPORATE ALL MATERIAL FROM A PRIOR APPLICATION

IS THE APPLICANT REQUESTING TO INCORPORATE AN ENTIRE APPLICATION(S)? ☒ YES ☐ NO

IF YES, COMPLETE THE FOLLOWING:

	DESCRIPTION OF MATERIAL TO BE INCOPORATED	APPLICATION	PAGE NOs IN THIS APPLICATION
1	Letter changing the shape of EP103.	NO.: Letter DATE: 05/06/10	N/A
2	Letter changing the design of material handling operations and the cooling towers (portions were superseded by subsequent submittals).	NO.:Letter DATE:07/28/09	N/A
3	Letter changing mat'l handling & modeling info for PM10 (portions were superseded by subsequent submittals).	NO.: Letter DATE: 08/28/08	N/A
4	Letter updating emission calculations & control eff. for the HL and PAC silos (Const. Permit 08010051)	NO.: Letter DATE: 05/21/08	N/A

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

APPLICATION PAGE _____

5	Letter addressing updates to fuel and bulk mat'l handling (portions were superseded by subsequent submittals)	NO.: Letter DATE: 01/14/08	N/A
6	Fugitive Dust Plans	NO.: Plans DATE: 06/24/20	N/A
7	Episode Action Plan	NO.: Plan DATE: 06/24/20	N/A
8	Compliance Assurance Monitoring Plan	NO.: Plan DATE: 06/22/20	N/A

SECTION FOUR — INCORPORATE A PRIOR PARTIAL APPLICATION

IS THE APPLICANT REQUESTING TO INCORPORATE A PARTIAL APPLICATION(S)? ☒ YES ☐ NO

IF YES, COMPLETE THE FOLLOWING:

	DESCRIPTION OF ITEM TO BE INCOPORATED	APPLICATION	PAGE NOs TO INCORPORATE	PAGE NOs IN THIS APPLICATION
1	Calculations from the PSD Permit	NO.: 01100065 DATE: 10/11/02	Appendix B Attachment B-1	N/A
2	Calculations from a construction permit for the Hydrated Lime Injection System	NO.: 08010051 DATE: 01/25/08	Attachment 1	N/A
3	Calculations from a construction permit for the Near-Field Waste Disposal facility.	NO.: 11080076 DATE: 08/24/11	Attachment 1	N/A
4	Calculations from a construction permit for the CCR Handling and Load Out Facility.	NO.: 17020018 DATE: 2/4/19	Calculations	N/A
5		NO.: DATE:		
6		NO.: DATE:		
7		NO.: DATE:		
8		NO.: DATE:		

SECTION FIVE — SIGNATURE BLOCK

NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE RETURNED AS INCOMPLETE.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

AUTHORIZED SIGNATURE:

BY: Randy Short
AUTHORIZED SIGNATURE

Chief Operating Officer
TITLE OF SIGNATORY

Randy Short
TYPED OR PRINTED NAME OF SIGNATORY

07, 17, 2020
DATE

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Fee Determination

For Applicant's Use		For Agency Use Only	
Revision #	Date:	ID Number:	
Page of		Permit Number:	
Source Designation:		Date:	

Section One -- Source Information

1. Source Name: Prairie State Generating Station
2. Source I.D. Number: 189808AAB
3. Date Form Prepared: 6/22/2020

Section Two -- Instructions in Brief

1. Complete this form to determine the annual permit fee that is applicable to a source under the Clean Air Act Permit Program (CAAPP).
2. The emission levels stated in Section Four, which are only used for the purpose of permit fee determination, will become "state only" enforceable permit conditions in the CAAPP permit.
3. The Illinois EPA does not require payment with this application. When you are billed,
   - pay electronically at magic.collectorsolutions.com/magic-ui/Login/illinois-epa
   - or make check or money order payable to the *Illinois Environmental Protection Agency*.
     Send to the address at the top of this form. **Do not send cash**.
     On the check memo line, please list "ID no. xxxxxxxxx". (Replace the x's with your source ID number.)

Section Three -- Fee Rationale

What is the application permit status at the time of this submittal? Check only one below.

- ☑ New CAAPP permit
- ○ Renewal CAAPP permit
- ○ Minor Modification
- ○ Significant Modification
- ○ Administrative Amendment*
- ○ Initial Title V FESOP**

* Administrative amendments may be used to change fees.

** Initial or new application for a FESOP so that a source would not be subject to the CAAPP, and thus the application must be submitted under the CAAPP.

This agency is authorized to require this information under Section 39.5 of the Illinois Environmental Protection Act, 415 ILCS 5/39.5. Further disclosure of this information is required under that section, moreover as also provided in that section, failure to provide this information may prevent this application from being processed and could result in the application being denied.

Application Page: ____

Section Four -- Fee Data

1. Will the CAAPP source pay the current maximum fee of $294,000.00 per year? ☑ Yes ○ No

2. If "No" was checked above, indicate the permitted fee allowable emissions in this table.

Emission Unit [A, C]	Nitrogen Oxides (NO_X) (tons/yr)	Particulate Matter (Part) (tons/yr)	Sulfur Dioxide (SO_2) (tons/yr)	Volatile Organic Material (VOM) (tons/yr)	Other[B] (specify) (tons/yr)
Subtotal:					
Fugitive[D]:					
Total:					
				Grand total across pollutants (tons/yr):	
Calculated permit fee: If the grand total is > 100 tons/yr, the number is multiplied by $21.50. Otherwise, the amount of $2,150.00 is entered.					
Minimum permit fee is $2,150.00 per year. Maximum permit fee is $294,000.00 per year. If the calculated permit fee is between these two fee amounts, then that amount is entered here. Otherwise, the minimum or maximum permit fee is entered, whichever is applicable.					$294,000.00

A. Emission Unit: Provide the name and flow diagram designation of the emission unit as it appears on the data and information forms (i.e. CAAPP 240, CAAPP 260)

B. Other: Any Hazardous Air Pollutant (HAP) not included as particulate matter or volatile organic material, e.g. chlorine, HCl, etc.

C. Insignificant Activity Emissions are not included for CAAPP sources.

D. Fugitives are required to be included for those categories listed in Section 39.5(2)(c)(ii) of the Act.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation:
_____

LISTING OF INSIGNIFICANT ACTIVITIES

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

THIS FORM MUST BE COMPLETED FOR ALL ACTIVITIES THAT ARE "INSIGNIFICANT" ACCORDING TO 35 ILL. ADM. CODE, SECTION 201.210 AND 201.211 FOR WHICH DETAILED DATA AND INFORMATION, AS REQUESTED IN OTHER FORMS, IS NOT PROVIDED.

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: June 2020

3) SOURCE ID NO. (IF KNOWN): 189808AAB

INSIGNIFICANT ACTIVITIES

4) ARE ANY ONE OR ALL OF THE FOLLOWING ACTIVITIES, AS IDENTIFIED IN 35 ILL. ADM. CODE 201.210(b), PRESENT AT THE SOURCE? CHECK THE APPROPRIATE BOX. ☒ YES ☐ NO

ACTIVITIES IN 35 ILL. ADM. CODE 201.210(b):

i) AIR CONDITIONING OR VENTILATING EQUIPMENT NOT DESIGNED TO REMOVE AIR CONTAMINANTS GENERATED BY OR RELEASED FROM ASSOCIATED EQUIPMENT;

ii) PHOTOGRAPHIC PROCESS EQUIPMENT BY WHICH AN IMAGE IS REPRODUCED UPON MATERIAL SENSITIZED TO RADIANT ENERGY;

iii) EQUIPMENT USED FOR HYDRAULIC OR HYDROSTATIC TESTING;

iv) GENERAL VEHICLE MAINTENANCE AND SERVICING ACTIVITIES AT THE SOURCE, OTHER THAN GASOLINE FUEL HANDLING;

v) CAFETERIAS, KITCHENS AND OTHER FACILITIES USED FOR PREPARING FOOD OR BEVERAGES PRIMARILY FOR CONSUMPTION AT THE SOURCE;

vi) EQUIPMENT USING A WATER, WATER AND SOAP OR DETERGENT, OR A SUSPENSION OF ABRASIVES IN WATER FOR PURPOSES OF CLEANING OR FINISHING PROVIDED NO ORGANIC SOLVENT HAS BEEN ADDED TO THE WATER;

vii) ADMINISTRATIVE ACTIVITIES INCLUDING, BUT NOT LIMITED TO, PAPER SHREDDING, COPYING, PHOTOGRAPHIC ACTIVITIES, AND BLUEPRINTING MACHINES. THIS DOES NOT INCLUDE INCINERATORS;

viii) LAUNDRY DRYERS, EXTRACTORS, AND TUMBLERS PROCESSING CLOTHING, BEDDING, AND OTHER FABRIC ITEMS USED AT THE SOURCE THAT HAVE BEEN CLEANED WITH WATER SOLUTIONS OF BLEACH OR DETERGENTS PROVIDED THAT ANY ORGANIC SOLVENT PRESENT IN SUCH ITEMS BEFORE PROCESSING THAT IS RETAINED FROM CLEAN-UP OPERATIONS SHALL BE ADDRESSED AS PART OF THE VOM EMISSIONS FROM USE OF CLEANING MATERIALS;

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

FOR APPLICANT'S USE
_____

INSIGNIFICANT ACTIVITIES (continued)

ix) HOUSEKEEPING ACTIVITIES FOR CLEANING PURPOSES, INCLUDING COLLECTING SPILLED AND ACCUMULATED MATERIALS AT THE SOURCE, INCLUDING OPERATION OF FIXED VACUUM CLEANING SYSTEMS SPECIFICALLY FOR SUCH PURPOSES, BUT NOT INCLUDING USE OF CLEANING MATERIALS THAT CONTAIN ORGANIC SOLVENT;

x) REFRIGERATION SYSTEMS, INCLUDING STORAGE TANKS USED IN REFRIGERATION SYSTEMS, BUT EXCLUDING ANY COMBUSTION EQUIPMENT ASSOCIATED WITH SUCH SYSTEMS;

xi) BENCH SCALE LABORATORY EQUIPMENT AND LABORATORY EQUIPMENT USED EXCLUSIVELY FOR CHEMICAL AND PHYSICAL ANALYSIS, INCLUDING ASSOCIATED LABORATORY FUME HOODS, VACUUM PRODUCING DEVICES AND CONTROL DEVICES INSTALLED PRIMARILY TO ADDRESS POTENTIAL ACCIDENTAL RELEASES;

xii) REST ROOM FACILITIES AND ASSOCIATED CLEANUP OPERATIONS, AND STACKS OR VENTS USED TO PREVENT THE ESCAPE OF SEWER GASES THROUGH PLUMBING TRAPS;

xiii) ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION, ON-SITE REPAIR, MAINTENANCE OR DISMANTLEMENT OF BUILDINGS, UTILITY LINES, PIPELINES, WELLS, EXCAVATIONS, EARTHWORKS AND OTHER STRUCTURES THAT DO NOT CONSTITUTE EMISSION UNITS;

xiv) STORAGE TANKS OF ORGANIC LIQUIDS WITH A CAPACITY OF LESS THAN 500 GALLONS, PROVIDED THE TANK IS NOT USED FOR STORAGE OF ANY MATERIAL LISTED AS A HAZARDOUS AIR POLLUTANT PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;

xv) PIPING AND STORAGE SYSTEMS FOR NATURAL GAS, PROPANE, AND LIQUEFIED PETROLEUM GAS;

xvi) WATER TREATMENT OR STORAGE SYSTEMS AS FOLLOWS: (A) SYSTEMS FOR POTABLE WATER OR BOILER FEEDWATER, (B) SYSTEMS, INCLUDING COOLING TOWERS, FOR PROCESS WATER PROVIDED THAT SUCH WATER HAS NOT BEEN IN DIRECT OR INDIRECT CONTACT WITH PROCESS STREAMS THAT CONTAIN VOLATILE ORGANIC MATERIAL OR MATERIALS LISTED AS HAZARDOUS AIR POLLUTANTS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;

xvii) LAWN CARE, LANDSCAPE MAINTENANCE, AND GROUNDSKEEPING ACTIVITIES;

xviii) CONTAINERS, RESERVOIRS, OR TANKS USED EXCLUSIVELY IN DIPPING OPERATIONS TO COAT OBJECTS WITH OILS, WAXES, OR GREASES, PROVIDED NO ORGANIC SOLVENT HAS BEEN MIXED WITH SUCH MATERIALS;

xix) COLD CLEANING DEGREASERS THAT ARE NOT IN-LINE CLEANING MACHINES, WHERE THE VAPOR PRESSURE OF THE SOLVENTS USED NEVER EXCEED 2kPa MEASURED AT 38C OR 0.7kPa AT 20C;

xx) MANUALLY OPERATED EQUIPMENT USED FOR BUFFING, POLISHING, CARVING, CUTTING, DRILLING, MACHINING, ROUTING, SANDING, SAWING, SCARFING, SURFACE GRINDING, OR TURNING;

xxi) USE OF CONSUMER PRODUCTS, INCLUDING HAZARDOUS SUBSTANCES AS THAT TERM IS DEFINED IN THE FEDERAL HAZARDOUS SUBSTANCES ACT, WHERE THE PRODUCT IS USED AT A SOURCE IN THE SAME MANNER AS NORMAL CONSUMER USE;

xxii) ACTIVITIES DIRECTLY USED IN THE DIAGNOSIS AND TREATMENT OF DISEASE, INJURY OR OTHER MEDICAL CONDITION;

xxiii) FIREFIGHTING ACTIVITIES AND TRAINING IN PREPARATION FOR FIGHTING FIRES CONDUCTED AT THE SOURCE;

xxiv) INTERNAL COMBUSTION ENGINE OR BOILER (INCLUDING THE FUEL SYSTEM) OF MOTOR VEHICLES, LOCOMOTIVES, AIR CRAFT, WATERCRAFT, LIFTTRUCKS, AND OTHER VEHICLES POWERED BY NONROAD ENGINES;

xxv) ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION, REPAIR OR MAINTENANCE OF ROADS OR OTHER PAVED OR OPEN AREAS, INCLUDING OPERATION OF STREET SWEEPERS, VACUUM TRUCKS, SPRAY TRUCKS, AND OTHER VEHICLES RELATED TO THE CONTROL OF FUGITIVE EMISSIONS OF SUCH ROADS OR OTHER AREAS;

xxvi) STORAGE AND HANDLING OF DRUMS OR OTHER TRANSPORTABLE CONTAINERS WHERE THE CONTAINERS ARE SEALED DURING STORAGE AND HANDLING;

INSIGNIFICANT ACTIVITIES (continued)

xxvii) INDIVIDUAL POINTS OF EMISSION OR ACTIVITIES AS FOLLOWS (A) INDIVIDUAL FLANGES, VALVES, PUMP SEALS, PRESSURE RELIEF VALVES AND OTHER INDIVIDUAL COMPONENTS THAT HAVE THE POTENTIAL FOR LEAKS, (B) INDIVIDUAL SAMPLING POINTS, ANALYZERS, AND PROCESS INSTRUMENTATION, WHOSE OPERATION MAY RESULT IN EMISSIONS, (C) INDIVIDUAL FEATURES OF AN EMISSION UNIT SUCH AS EACH BURNER AND SOOTBLOWERS IN A BOILER OR EACH USE OF CLEANING MATERIALS ON A COATING OR PRINTING LINE, (D) INDIVIDUAL EQUIPMENT THAT IS TRANSPORTABLE OR ACTIVITIES WITHIN A FACILITY ESTABLISHED FOR TESTING UNITS PRIOR TO SALE OR DISTRIBUTION OR FOR PURPOSES OF RESEARCH, AND (E) INDIVIDUAL EQUIPMENT OR ACTIVITIES WITHIN A PILOT PLANT FACILITY THAT IS USED FOR RESEARCH OR TRAINING;

xxviii) ACTIVITIES AT A SOURCE ASSOCIATED WITH THE MODIFICATION ONLY OR CONSTRUCTION ONLY OF A FACILITY, AN EMISSION UNIT OR OTHER EQUIPMENT AT THE SOURCE;

xxix) ACTIVITIES AT A SOURCE ASSOCIATED WITH THE MAINTENANCE, REPAIR, OR DISMANTLEMENT OF AN EMISSION UNIT OR OTHER EQUIPMENT INSTALLED AT THE SOURCE, NOT INCLUDING THE SHUTDOWN OF THE UNIT OR EQUIPMENT, INCLUDING PREPARATION FOR MAINTENANCE, REPAIR OR DISMANTLEMENT, AND PREPARATION FOR SUBSEQUENT STARTUP, INCLUDING PREPARATION OF A SHUTDOWN VESSEL FOR ENTRY, REPLACEMENT OF INSULATION, WELDING AND CUTTING, AND STEAM PURGING OF A VESSEL PRIOR TO STARTUP.

5) ARE ANY EMISSION UNITS AT THE SOURCE CONSIDERED INSIGNIFICANT ACTIVITIES BECAUSE THEY FALL UNDER ONE OF THE ACTIVITIES OR EMISSION LEVELS LISTED IN 35 ILL. ADM. CODE 201.210(a)(1) THROUGH (18)? IF YES, IDENTIFY THE EMISSION UNITS IN THE "LIST OF INSIGNIFICANT ACTIVITIES PURSUANT TO 201.210(a)(1) THROUGH (18)" AND PROVIDE THE REQUESTED INFORMATION. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 297-1.

ACTIVITIES AND EMISSION LEVELS IN 35 ILL. ADM. CODE 201.210(a)

i)	ANY EMISSION UNIT DETERMINED TO BE AN INSIGNIFICANT ACTIVITY BY THE AGENCY PURSUANT TO 35 ILL. ADM. CODE 201.211 (SEE ITEM #6);	☐ Yes ☒ NO
ii)	EMISSION UNITS WITH EMISSIONS THAT NEVER EXCEED 0.1 LBS/HR OF ANY REGULATED AIR POLLUTANT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT AND THAT DO NOT EMIT ANY AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☒ Yes ☐ NO
iii)	EMISSION UNITS WITH EMISSIONS THAT NEVER EXCEED 0.44 TONS/YR OF ANY REGULATED AIR POLLUTANT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT AND THAT DO NOT EMIT ANY AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☒ Yes ☐ NO
iv)	DIRECT COMBUSTION UNITS DESIGNED AND USED FOR COMFORT HEATING PURPOSES AND FUEL COMBUSTION EMISSION UNITS AS FOLLOWS: (A) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 2.5 MMBTU/HR THAT FIRE ONLY NATURAL GAS, PROPANE OR LIQUEFIED PETROLEUM GAS, (B) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 1.0 MMBTU/HR THAT FIRE ONLY OIL OR OIL IN COMBINATION WITH NATURAL GAS, PROPANE OR LIQUEFIED PETROLEUM GAS, AND (C) UNITS WITH A RATED HEAT INPUT CAPACITY OF LESS THAN 200,000 BTU/HR WHICH NEVER BURN REFUSE, OR TREATED OR CHEMICALLY CONTAMINATED WOOD;	☒ Yes ☐ NO
v)	EXTRUDERS USED FOR THE EXTRUSION OF METALS, MINERALS, PLASTICS, RUBBER, OR WOOD, EXCLUDING EXTRUDERS USED IN THE MANUFACTURE OF POLYMERS, PROVIDED THAT VOLATILE ORGANIC MATERIALS OR CLASS I OR II SUBSTANCES SUBJECT TO THE REQUIREMENTS OF TITLE VI OF THE CLEAN AIR ACT ARE NOT USED AS FOAMING AGENTS OR RELEASE AGENTS OR WERE NOT USED AS FOAMING AGENTS IN THE CASE OF EXTRUDERS PROCESSING SCRAP MATERIAL;	☐ Yes ☒ NO
vi)	FURNACES USED FOR MELTING METALS OTHER THAN BERYLLIUM WITH A BRIM FULL CAPACITY OF LESS THAN 450 CUBIC INCHES BY VOLUME;	☐ Yes ☒ NO
vii)	EQUIPMENT USED FOR THE MELTING OR APPLICATION OF LESS THAN 50,000 LBS/YR OF WAX TO WHICH NO ORGANIC SOLVENT HAS BEEN ADDED;	☐ Yes ☒ NO

INSIGNIFICANT ACTIVITIES (continued)

viii) EQUIPMENT USED FOR FILLING DRUMS, PAILS OR OTHER PACKAGING CONTAINERS, EXCLUDING AEROSOL CANS, WITH SOAPS, DETERGENTS, SURFACTANTS, LUBRICATING OILS, WAXES, VEGETABLE OILS, GREASES, ANIMAL FATS, GLYCERIN, SWEETENERS, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS;	☐ Yes ☒ NO
ix) EQUIPMENT USED FOR THE MIXING AND BLENDING OF MATERIALS AT AMBIENT TEMPERATURE TO MAKE WATER BASED ADHESIVES PROVIDED EACH MATERIAL CONTAINS LESS THAN 5% ORGANIC SOLVENT BY WEIGHT;	☐ Yes ☒ NO
x) STORAGE TANKS OF ORGANIC LIQUIDS WITH A CAPACITY OF LESS THAN 10,000 GALLONS AND AN ANNUAL THROUGHPUT OF LESS THAN 100,000 GALLONS PROVIDED THE TANK IS NOT USED FOR THE STORAGE OF GASOLINE OR ANY LISTED HAZARDOUS AIR POLLUTANT PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT;	☒ Yes ☐ NO
xi) STORAGE TANKS OF VIRGIN OR REREFINED DISTILLATE OIL, HYDROCARBON CONDENSATE FROM NATURAL GAS PIPELINE OR STORAGE SYSTEMS, LUBRICATING OIL, OR RESIDUAL FUEL OILS;	☒ Yes ☐ NO
xii) DIE CASTING MACHINES WHERE A METAL OR PLASTIC IS FORMED UNDER PRESSURE IN A DIE;	☐ Yes ☒ NO
xiii) COATING OPERATIONS (EXCLUDING POWDER, ARCHITECTURAL AND INDUSTRIAL MAINTENANCE COATING) WITH AGGREGATE VOM USAGE THAT NEVER EXCEEDS 15 LBS/DAY FROM ALL COATING LINES AT THE SOURCE, INCLUDING VOM FROM COATING, DILUTENTS, AND CLEANING MATERIALS;	☐ Yes ☒ NO
xiv) PRINTING OPERATIONS WITH AGGREGATE ORGANIC SOLVENT USAGE THAT NEVER EXCEEDS 750 GALLONS PER YEAR FROM ALL PRINTING LINES AT THE SOURCE, INCLUDING ORGANIC SOLVENT FROM INKS, DILUTENTS, FOUNTAIN SOLUTIONS, AND CLEANING MATERIALS;	☐ Yes ☒ NO
xv) GAS TURBINES AND STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF LESS THAN 112 KW (150 HORSEPOWER) POWER OUTPUT;	☐ Yes ☒ NO
xvi) GAS TURBINES AND STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES OF BETWEEN 112 KW AND 1,1118 KW (150 AND 1,500 HORSEPOWER) POWER OUTPUT THAT ARE EMERGENCY OR STANDBY UNITS;	☒ Yes ☐ NO
xvii) STORAGE TANKS OF ANY SIZE CONTAINING EXCLUSIVELY SOAPS, DETERGENTS, SURFACTANTS, GLYCERIN, WAXES, VEGETABLE OILS, GREASES, ANIMAL FATS, SWEETENERS, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS PROVIDED AN ORGANIC SOLVENT HAS NOT BEEN MIXED WITH SUCH MATERIALS;	☒ Yes ☐ NO
xviii) LOADING AND UNLOADING SYSTEMS FOR RAILCARS, TANK TRUCKS, OR WATERCRAFT THAT HANDLE ONLY THE FOLLOWING LIQUID MATERIALS PROVIDED AN ORGANIC SOLVENT HAS NOT BEEN MIXED WITH SUCH MATERIALS: SOAPS, DETERGENTS, SURFACTANTS, LUBRICATING OILS, WAXES, GLYCERIN, VEGETABLE OILS, GREASES, ANIMAL FATS, SWEETENER, CORN SYRUP, AQUEOUS SALT SOLUTIONS, OR AQUEOUS CAUSTIC SOLUTIONS.	☒ Yes ☐ NO
6) ARE ANY EMISSION UNITS AT THE SOURCE PROPOSED TO BE CONSIDERED INSIGNIFICANT ACTIVITIES THAT MEET THE CRITERIA LISTED IN 35 ILL. ADM. CODE 201.211(a)? IF YES, LIST THE EMISSION UNITS IN THE "LIST OF ACTIVITIES FOR WHICH STATUS AS AN INSIGNIFICANT ACTIVITIES IS PROPOSED PURSUANT TO 201.211(a)" AND PROVIDE THE REQUESTED INFORMATION. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 297-2.	☐ Yes ☒ NO

CRITERIA IN 35 ILL. ADM. CODE 201.211(a)

i) THE EMISSION UNIT WOULD NOT EMIT MORE THAN 1.0 LBS/HR OF ANY REGULATED AIR POLLUTANT NOT LISTED AS HAZARDOUS PURSUANT TO SECTION 112(b) OF THE CLEAN AIR ACT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT;
ii) THE EMISSION UNIT WOULD NOT EMIT MORE THAN 0.1 LB/HR OF ANY REGULATED AIR POLLUTANT LISTED AS HAZARDOUS PURSUANT TO SECTION 112 (b) OF THE CLEAN AIR ACT IN THE ABSENCE OF AIR POLLUTION CONTROL EQUIPMENT; AND
iii) THE EMISSION UNIT IS NOT A PROCESS UNIT.

LIST OF INSIGNIFICANT ACTIVITIES PURSUANT TO 201.210 (a)(1) THROUGH (18)

EMISSION UNIT AND DESIGNATION	# OF UNITS	DESCRIPTION OF UNIT INCLUDING ANY CONTROL	BASIS FOR INSIGNIFICANCE SECTION 201.210(a)	[1]BASIS FOR DETERMINATION OF EMISSIONS
Emergency Diesel Fire Pump (EU26A)	1	Fire pump engine firing diesel fuel	201.210(a)(16)	
Diesel Emergency Backup Generator (EU26C)	1	Emergency diesel-fired engine powering a generator	201.210(a)(16)	
Limestone Rock Duster Silo	1	Silo containing rock dust for mine operations	201.210(a)(3)	
#1 Diesel Storage Tank (1,500 Gal) LG-1B	1	Storage tank containing #1 Diesel for general purposes	201.210(a)(11)	
#2 Diesel Storage Tank (2,500 Gal) LG-2	1	Storage tank containing #2 Diesel for general purposes	201.210(a)(11)	
#2 Diesel Storage Tank (10,859 Gal) ST001	1	Storage tank containing #2 Diesel for the diesel emergency backup generator	201.210(a)(11)	
#2 Diesel Storage Tank (550 Gal) ST002	1	Storage tank containing #2 Diesel for the emergency diesel fire pump	201.210(a)(11)	
Sodium Hydroxide Tank and Loading Operations	1	Storage tank and loading for sodium hydroxide	201.210(a)(17) and (18)	
Bleach, NaOCL Tank and Loading Operations	4	Storage tank and loading for bleach (NaOCL)	201.210(a)(17) and (18)	
Direct Combustion Comfort Heating Units	1	Direct-fired units that provide comfort heating	201.210(a)(4)	
Hydraulic Oil Tank (10,000 Gal) LG-3	1	Storage tank containing hydraulic oil	201.210(a)(11)	
Gear Oil Tank (8,000 Gal) LG-4	1	Storage tank containing gear oil	201.210(a)(11)	
New Motor Oil Tank (300 Gal) LG-5	1	Storage tank containing new motor oil	201.210(a)(11)	
Used Oil Tanks (250, 550, and 1,100 Gal) LG-6, LG-7, and LG-12	3	Storage tanks containing used oil	201.210(a)(10)	
Automatic Transmission Fluid (150 Gal) LG-8	1	Storage tank containing automatic transmission fluid	201.210(a)(11)	

[1]IF CONSIDERED INSIGNIFICANT BASED ON EMISSION LEVEL, THE DETERMINATION METHOD OF EMISSION MUST BE PROVIDED (E.G., 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)).

EMISSION UNIT AND DESIGNATION	# OF UNITS	DESCRIPTION OF UNIT INCLUDING ANY CONTROL	BASIS FOR INSIGNIFICANCE SECTION 201.210(a)	[1]BASIS FOR DETERMINATION OF EMISSIONS
Fuel Oil Forced Air Heaters	7	Forced Air Heater running on Fuel Oil	201.210(a)(4)	
Fuel Oil Forced Air Heaters	4	Forced Air Heater running on Fuel Oil	201.210(a)(4)	
Dual Fired Industrial Heaters	2	Industrial Heater running on Natural Gas	201.210(a)(4)	
Kerosene Forced Air Heaters	2	Forced Air Heater running on Kerosene	201.210(a)(4)	
Fuel Oil Direct Fired Heaters	5	Direct Fired Heaters running on Fuel Oil	201.210(a)(4)	
Portable Diesel Pumps	1	Portable pumps with engine running on diesel	201.210(a)(15)	
Portable Gasoline Generators	2	Portable generators running on gasoline	201.210(a)(15)	
Portable Diesel Compressor	1	Portable compressor running on diesel	201.210(a)(15)	
Portable Mine Generator	1	Portable Generator running on diesel	201.210(a)(15)	
Diesel Welder	1	Portable welder running on diesel	201.210(a)(15)	
LP Backup Genreator	1	Backup generator running on LP	201.210(a)(16)	
Diesel Pumps	7	Pumps running on diesel	201.210(a)(15)	
Gas Pumps	5	Pumps running on gasoline	201.210(a)(15)	
Emergency Mine Generator	1	Emergency generator running on diesel	201.210(a)(16)	
Portable Gas Pumps	2	Portable pumps running on diesel	201.210(a)(15)	
Portable LP Backup Generator	1	Emergency backup generator running on LP	201.210(a)(16)	

[1]IF CONSIDERED INSIGNIFICANT BASED ON EMISSION LEVEL, THE DETERMINATION METHOD OF EMISSION MUST BE PROVIDED (E.G., 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS)).

LIST OF ACTIVITIES FOR WHICH STATUS AS AN INSIGNIFICANT ACTIVITIES IS PROPOSED PURSUANT TO 201.211 (a)

EMISSION UNIT	[1]IU	DESCRIPTION OF UNIT	OPERATING HOURS	EMISSIONS	

AND DESIGNATION		INCLUDING ANY CONTROL	HRS PER DAY	DAY PER WEEK	WEEK PER YEAR	POLLUTANT	LB PER HOUR	TON PER YEAR	OTHER
			[2]DISCUSSION:			[3]DETERMINATION METHOD:			SUPPORTING INFORMATION
N/A									

[1]IU - TOTAL NUMBER OF UNITS (EMISSION RATES SHOULD BE PROVIDED ON A PER UNIT BASIS).
[2]DISCUSSION - PROVIDE AN EXPLANATION OF OPERATING HOURS (E.G., THE UNIT IS ON EMERGENCY STANDBY - THEREFORE IT ONLY OPERATES ONE DAY PER MONTH.)
[3]DETERMINATION METHOD: 1) STACK TEST, 2) MATERIAL BALANCE, 3) STANDARD EMISSION FACTOR (AP-42 OR AIRS), 4) ENGINEERING ESTIMATE, 5) SPECIAL EMISSION FACTOR (NOT AP-42 OR AIRS).

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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Date: ____ / ____ / ____
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Source Designation: _____

DELEGATION OF AUTHORITY FOR RESPONSIBLE OFFICIAL TO A REPRESENTATIVE

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

THIS FORM SHALL BE USED BY A RESPONSIBLE OFFICIAL TO DELEGATE AUTHORITY TO A REPRESENTATIVE OF SUCH PERSON FOR SIGNATURE ON APPLICATIONS OR CERTIFICATION OF REPORTS TO BE SUBMITTED PURSUANT TO THE CLEAN AIR ACT.

THIS FORM SHALL ONLY BE USED FOR A CORPORATION AT WHICH A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF BUSINESS FUNCTION, OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY OR DECISION MAKING FUNCTIONS FOR THE CORPORATION TO TRANSFER THE AUTHORITY AS A RESPONSIBLE OFFICIAL TO A REPRESENTATIVE OF SUCH PERSON. THE REPRESENTATIVE OF SUCH PERSON MUST BE RESPONSIBLE FOR THE OVERALL OPERATION OF ONE OR MORE MANUFACTURING, PRODUCTION, OR OPERATING FACILITIES APPLYING FOR OR SUBJECT TO A PERMIT.

NOTE: THIS TRANSFER OF DELEGATION OF AUTHORITY IS APPLICABLE ONLY IF THE FACILITY EMPLOYS MORE THAN 250 PERSONS OR HAS A GROSS ANNUAL SALES OR EXPENDITURES EXCEEDING $25 MILLION (IN SECOND QUARTER 1980 DOLLARS).

SOURCE INFORMATION

1) SOURCE NAME: Prairie State Generating Station

2) DATE FORM PREPARED: December 1, 2015

3) SOURCE ID NO. (IF KNOWN): 189808AAB

TRANSFER OF AUTHORITY

4) I, THE UNDERSIGNED, BEING A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF BUSINESS FUNCTION, OR OTHER PERSON WHO PERFORMS SIMILAR POLICY OR DECISION MAKING FUNCTIONS FOR THE CORPORATION, HEREBY TRANSFER THE AUTHORITY AS A RESPONSIBLE OFFICIAL TO Randy Short, THEY BEING A REPRESENTATIVE AND RESPONSIBLE FOR THE OVERALL OPERATION OF ONE OR MORE MANUFACTURING, PRODUCTION, OR OPERATING FACILITIES APPLYING FOR OR SUBJECT TO A PERMIT.

AUTHORIZED SIGNATURE

Chief Executive Officer
TITLE OF SIGNATORY

Donald Gaston
TYPED OR PRINTED NAME OF SIGNATORY

12 / 15 / 2015
DATE

Randy Short
DELEGATED REPRESENTATIVE

Chief Operating Officer
TITLE OF DESIGNATED REPRESENTATIVE

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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LISTING OF SIGNIFICANT ACTIVITIES	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

SECTION ONE SOURCE INFORMATION

1)SOURCE NAME : Prairie State Generating Station

2)SOURCE ID NO: 189808AAB

3) DATE FORM PREPARED: 06 / 22 / 2020

SECTION TWO INSTRUCTIONS IN BRIEF

1) COMPLETE THE LISTING OF SIGNIFICANT ACTIVITIES AT THIS SOURCE. PROVIDE THE LISTING IN THE ORDER IN WHICH THE EMISSION UNIT(S) OR PROCESS(ES) ARE FOUND IN THE APPLICATION.

2) EMISSION UNITS MAY BE GROUPED BY ACTIVITY RATHER THAN INDIVIDUALLY LISTED (E.G., TANKS 1-5)

3) DO NOT INCLUDE INSIGNIFICANT ACTIVITIES IN THIS LISTING; PROVIDE THOSE ACTIVITIES IN THE 297-CAAPP-LISTING OF INSIGNIFICANT ACTIVITIES.

SECTION THREE LISTING OF SIGNIFICANT ACTIVITIES

#	EMISSION UNIT OR PROCESS	AIR POLLUTION CONTROL EQUIPMENT
1	Unit 1	Low NO_X Burners, SCR, HL/Cal. Brom/Sorbent Injection, Dry ESP, WFGD, Wet ESP
2	Unit 2	Low NO_X Burners, SCR, HL/Cal. Brom/Sorbent Injection, Dry ESP, WFGD, Wet ESP
3	Auxiliary Boiler	Low NO_X Burners
4	Cooling Towers 1 and 2	Drift Eliminators
5	Coal Handling Units	Dust Suppression Spray, and Dust Collectors
6	Coal Processing Units (Crushers 1 and 2)	Dust Collector
7	Limestone Preparation Units	Enclosed and Bin Vent Filters
8	HL and PAC Silos	Bin Vent Filter
9	Fly Ash Silos	Bin Vent Filter
11	Transfer Point (Conveyor from C-5A to C-6A, C-5B to C-6B, C-6A to Unit 1, and C-6B to Unit 1)	Enclosure and Water Spray
12	Transfer Point (Conveyor from C-6A to Unit 2 and C-6B to Unit 2)	Enclosure and Water Spray
13	Transfer Point (CCR Stacker Transfer to Stackout Area Pile)	Water Spray
14	Transfer Point (Raw Coal Reject Material (Breaker Material), Mine Development Material, and Water Treatment Filter Cake Truck Unloading to	Water Spray
15	Transfer Point (Soil Cap Excavation and Placement over Disposal Cell)	Water Spray
16	Truck Haul Roads	Water Spray and/or Vacuum Sweeper Truck
17	Transfer Point (CCR Conveyor 2 Transfer to Contingency Stacker)	Enclosure and Water Spray
18	Transfer Point (CCR Contingency Stacker to Cont. Stackout Area Pile)	Water Spray
19	Transfer Point (Loader from CCR Cont. Stackout Area Pile to Truck)	Water Spray

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER 39.5 OF THE ILLINOIS ENVIRONMENTAL PROTECTION ACT, 415 ILCS 5/39.5 FURTHER DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. MOREOVER AS ALSO PROVIDED IN THAT SECTION, FAILURE TO PROVIDE THIS INFORMATION MAY PREVENT THIS APPLICATION FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

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FUGITIVE EMISSIONS DATA AND INFORMATION	FOR AGENCY USE ONLY
	ID NUMBER:
	EMISSION POINT #:
	DATE:

THIS FORM MAY BE COMPLETED FOR FUGITIVE EMISSION ACTIVITIES RATHER THAN COMPLETING AN EMISSION UNIT OR STAND ALONE FORM. FUGITIVE EMISSIONS ARE DEFINED AS THOSE EMISSIONS WHICH COULD NOT REASONABLY PASS THROUGH A STACK, CHIMNEY, VENT OR OTHER FUNCTIONALLY EQUIVALENT OPENING. NOTE THAT UNCAPTURED PROCESS EMISSION UNIT EMISSIONS ARE TYPICALLY NOT CONSIDERED FUGITIVE AND MUST BE ACCOUNTED FOR ON THE APPROPRIATE EMISSION UNIT OR STAND ALONE FORM. ANY EMISSIONS AT THE SOURCE NOT PREVIOUSLY ACCOUNTED FOR ON AN EMISSION UNIT OR STAND ALONE FORM MUST BE ACCOUNTED FOR ON THIS FORM.

SOME EXAMPLES OF EMISSIONS WHICH ARE TYPICALLY CONSIDERED FUGITIVE ARE;

- ROAD DUST EMISSIONS (PAVED ROADS, UNPAVED ROADS, AND LOTS)
- STORAGE PILE EMISSIONS (WIND EROSION, VEHICLE DUMP AND LOAD)
- LOADING/UNLOADING OPERATION EMISSION
- EMISSIONS FROM MATERIAL BEING TRANSPORTED IN A VEHICLE
- EMISSIONS OCCURRING FROM THE UNLOADING AND TRANSPORTING OF MATERIALS COLLECTED BY POLLUTION CONTROL EQUIPMENT
- EQUIPMENT LEAKS (E.G., LEAKS FROM PUMPS, COMPRESSORS, IN-LINE PROCESS VALVES, PRESSURE RELIEF DEVICES, OPEN-ENDED VALVES, SAMPLING CONNECTIONS, FLANGES, AGITATORS, COOLING TOWERS, ETC.)
- GENERAL CLEAN-UP VOM EMISSIONS

NOTE THAT TOTAL EMISSIONS FROM THE SOURCE (TS) ARE EQUAL TO SOURCE-WIDE TOTAL EMISSION UNIT EMISSIONS (PT) PLUS TOTAL FUGITIVE EMISSIONS (FT), E.G., TS = PT + FT.

SOURCE INFORMATION	
1) SOURCE NAME: Prairie State Generating Station	
2) DATE FORM PREPARED: 6/22/2020	3) SOURCE ID NO. (IF KNOWN): 189808AAB

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES, 1991, AS AMENDED 1992, CHAPTER 111 1/2, PAR. 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION. FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

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GENERAL INFORMATION

4) PROVIDE THE FOLLOWING INFORMATION FOR THE FUGITIVE EMISSION POINTS AT THE SOURCE INCLUDED IN THIS APPLICATION. SIMILAR POINTS MAY BE GROUPED TOGETHER.

NOTE: ATTACH THE CALCULATIONS, TO THE EXTENT THEY ARE AIR EMISSIONS RELATED, FROM WHICH THE ABOVE EMISSIONS WERE BASED AND LABEL AS EXHIBIT 391-1. IF THE ABOVE SPACE WAS NOT ADEQUATE , LIST ALL OTHER FUGITIVE POINTS AND INCLUDE THE REQUIRED INFORMATION ON THIS ATTACHMENT.

FOR PAVED AND UNPAVED ROADS, INCLUDE ROAD MILES (E.G., 6 MILES OF UNPAVED ROADS); FOR STORAGE PILES, INDICATE THE MATERIAL BEING STORED (E.G., 20 LIMESTONE STORAGE PILES); FOR EQUIPMENT LEAK POINTS, GROUP SIMILAR POINTS TOGETHER (E.G., 15 ORGANIC LIQUID PUMPS); FOR TRANSFER POINTS, IDENTIFY THE ORIGIN AND DESTINATION OF TRANSFER AND THE MATERIAL BEING TRANSFERRED (E.G., 5 BELT TO BIN TRANSFERS OF CORN).

FUGITIVE POINT(S)	REGULATED AIR POLLUTANT(S)	UNCONTROLLED ANNUAL EMISSIONS (TONS/YR)	
		MAXIMUM	TYPICAL
Haul Roads	PM	Inc. by Ref	Inc. by Ref
Active Coal Pile A (EP40A)	PM	See Exhibit A	See Exhibit A
Active Coal Pile B (EP40B)	PM	See Exhibit A	See Exhibit A
Long Term Coal Storage Pile (EP40C)	PM	See Exhibit A	See Exhibit A
Covered Limestone Pile (EP58P)	PM	See Exhibit A	See Exhibit A
Limestone Inactive Storage Pile (EP62)	PM	See Exhibit A	See Exhibit A
Mine Coal Storage Pile 1 (EP103A)	PM	See Exhibit A	See Exhibit A
Mine Coal Storage Pile 2 (EP103B)	PM	See Exhibit A	See Exhibit A
Mine Coal Storage Pile 3 (EP103C)	PM	See Exhibit A	See Exhibit A
Coal Surge Pile	PM	See Exhibit A	See Exhibit A
Bulldozers	PM	Inc. by Ref	Inc. by Ref
Frontloaders	PM	Inc. by Ref	Inc. by Ref
Combustion Waste Handling	PM	Inc. by Ref	Inc. by Ref

5) ATTACH A DIAGRAM OF THE SOURCE THAT INDICATES THE LOCATION OF ALL FUGITIVE EMISSION POINTS. A SKETCH DRAWING WITH THE PROPER NOTATIONS IS SUFFICIENT. ALTERNATIVELY, THE REQUIRED INFORMATION MAY BE PLACED ON A COPY OF AN EXISTING PLAN OR MAP SUBMITTED WITH THIS APPLICATION (E.G., PLOT PLAN/MAP). ALSO INDICATE ON THIS DIAGRAM THE LOCATION OF ANY AMBIENT AIR MONITORING STATIONS. LABEL THIS DIAGRAM 391-2. NOTE: EQUIPMENT LEAK FUGITIVE EMISSION POINTS NEED NOT BE SHOWN ON THIS DIAGRAM.

APPLICABLE RULES

6) PROVIDE ANY SPECIFIC EMISSION STANDARD(S) AND LIMITATIONS(S) WHICH ARE APPLICABLE TO FUGITIVE EMISSIONS AT THE SOURCE (E.G., ROAD SEGMENT F, PM-10, IAC 212.316(d), OPACITY < OR = 10% AT 4 FT):

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
TRUCK	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Coal Piles	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Limestone Piles	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Bulldozers	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Frontloaders	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
Combustion Waste Handling	PM	35 IAC 212.301, 314	PM shall not be visible when looking generally toward the zenith from beyond the property line except when wind speed is greater than 25 mph.
		35 IAC 212.123(a)	Opacity of emissions shall not exceed 30 percent.
		35 IAC 212.321	PM emissions shall not exceed allowable emission rates in 35 IAC 212.321 (c) for any new process unit in combination with new similar process units

7) PROVIDE ANY SPECIFIC RECORDKEEPING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

APPLICABLE RULES (CON'T)

8) PROVIDE ANY SPECIFIC REPORTING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

9) PROVIDE ANY SPECIFIC MONITORING RULE(S) WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

10) PROVIDE ANY SPECIFIC TESTING RULES AND/OR PROCEDURES WHICH ARE APPLICABLE:

FUGITIVE POINTS(S)	REGULATED AIR POLLUTANT(S)	EMISSION STANDARD(S)	REQUIREMENT(S)
N/A			

IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-3.

COMPLIANCE INFORMATION

11) IS EACH FUGITIVE POINT IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS? ☒ YES ☐ NO

IF NO, THEN FORM 294-CAAPP "COMPLIANCE PLAN/SCHEDULE OF COMPLIANCE -- ADDENDUM FOR NON COMPLYING EMISSION UNITS" MUST BE COMPLETED AND SUBMITTED WITH THIS APPLICATION.

12) EXPLANATION OF HOW INITIAL COMPLIANCE IS TO BE, OR WAS PREVIOUSLY, DEMONSTRATED:

Initial compliance was demonstrated according to requirements specified in the PSD permit (e. g., conditions in Section 2.2) and/or relevant construction permits (e.g., Permit No. 11080076, incorporated by reference).

13) EXPLANATION OF HOW ONGOING COMPLIANCE WILL BE DEMONSTRATED:

Ongoing compliance will be demonstrated per the requirements of the PSD permit and issued CAAPP permit and/or relevant construction permits (e.g., Permit No. 11080076, incorporated by reference).

TESTING, MONITORING, RECORDKEEPING AND REPORTING

14a) LIST THE PARAMETERS THAT RELATE TO AIR EMISSIONS FOR WHICH RECORDS ARE BEING MAINTAINED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE UNIT OF MEASUREMENT, THE METHOD OF MEASUREMENT, AND THE FREQUENCY OF SUCH RECORDS (E G., HOURLY, DAILY, WEEKLY):

PARAMETER	FUGITIVE POINT	METHOD OF MEASUREMENT	FREQUENCY
Amount received and shipped	TRUCK	Material Receipts	Monthly
PM	TRUCK, Coal Piles, Limestone Piles, Bulldozers, Frontloaders, Waste Handling	Calculated Emissions	Quarterly
Application of control		Operating Logs	Quarterly

b) BRIEFLY DESCRIBE THE METHOD BY WHICH RECORDS WILL BE CREATED AND MAINTAINED. FOR EACH RECORDED PARAMETER INCLUDE THE METHOD OF RECORDKEEPING, TITLE OF PERSON RESPONSIBLE FOR RECORDKEEPING, AND TITLE OF PERSON TO CONTACT FOR REVIEW OF RECORDS:

PARAMETER	METHOD OF RECORDKEEPING	TITLE OF PERSON RESPONSIBLE	TITLE OF CONTACT PERSON
Amount received and shipped	Hardcopy and/or Electronically	Environmental Manager	Environmental Manager
PM	Hardcopy and/or Electronically	Environmental Manager	Environmental Manager
Application of Control	Hardcopy and/or Electronically	Environmental Manager	Environmental Manager

c) IS COMPLIANCE OF THE EMISSION UNIT READILY DEMONSTRATED BY REVIEW OF THE RECORDS? ☒ YES ☐ NO

IF NO, EXPLAIN:

d) ARE ALL RECORDS READILY AVAILABLE FOR INSPECTION, COPYING AND/OR SUBMITTAL TO THE AGENCY UPON REQUEST? ☒ YES ☐ NO

IF NO, EXPLAIN:

15a) DESCRIBE ANY MONITORS OR MONITORING ACTIVITIES USED TO DETERMINE FEES, RULE APPLICABILITY OR COMPLIANCE:

N/A

b) WHAT PARAMETER(S) IS(ARE) BEING MONITORED?

N/A

c) DESCRIBE THE LOCATION OF EACH MONITOR AND/OR MONITORING PROCEDURES:

N/A

d) IS EACH MONITOR EQUIPPED WITH A RECORDING DEVICE? ☐ YES ☐ NO

IF NO, LIST ALL MONITORS WITHOUT A RECORDING DEVICE:

N/A

e) IS EACH MONITOR REVIEWED FOR ACCURACY ON AT LEAST A QUARTERLY BASIS? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

f) IS EACH MONITOR OPERATED AT ALL TIMES THAT FUGITIVE EMISSIONS MAY OCCUR? ☐ YES ☐ NO

IF NO, EXPLAIN:

N/A

16) PROVIDE INFORMATION ON THE MOST RECENT TESTS, IF ANY, IN WHICH THE RESULTS ARE USED FOR PURPOSES OF THE DETERMINATION OF FEES, RULE APPLICABILITY OR COMPLIANCE. INCLUDE THE TEST DATE, TEST METHOD USED, TESTING COMPANY, OPERATING CONDITIONS EXISTING DURING THE TEST AND A SUMMARY OF RESULTS. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS EXHIBIT 391-4:

FUGITIVE POINT(S)	TEST DATE	TEST METHOD	TESTING FIRM	OPERATING CONDITIONS	SUMMARY OF RESULTS
N/A					

17) DESCRIBE ALL REPORTING REQUIREMENTS AND PROVIDE THE TITLE AND FREQUENCY OF REPORT SUBMITTALS TO THE AGENCY:

FUGITIVE POINT(S)	REPORTING REQUIREMENTS	TITLE OF REPORT	FREQUENCY
N/A			

FUGITIVE DUST (complete if applicable)

18a) ARE OPACITY READINGS REQUIRED TO BE TAKEN? ☐ YES ☒ NO

IF YES, SPECIFY THE RELEVANT FUGITIVE POINT(S):

i) _____

ii) _____

iii) _____

b) SPECIFY THE FREQUENCY OF OPACITY READINGS:

c) IS USEPA METHOD 9 USED TO READ ALL VISIBLE EMISSIONS? ☐ YES ☐ NO

IF NO, EXPLAIN AND SPECIFY THE METHOD USED

N/A

19) IS AN OPERATING PROGRAM FOR FUGITIVE PARTICULATE MATTER AND/OR PM10 CONTROL REQUIRED PURSUANT TO 35 ILL. ADM. CODE 212.309? ☐ YES ☒ NO

IF YES, HAS SUCH A PROGRAM PREVIOUSLY BEEN SUBMITTED TO THE AGENCY? ☐ YES ☐ NO

IF SUCH A PROGRAM HAS NOT BEEN SUBMITTED, IT SHOULD BE ATTACHED TO THIS FORM UPON SUBMITTAL AND LABELED AS 391-5.

20) IS THE SOURCE IN COMPLIANCE WITH 35 ILL. ADM. CODE 212.301 WHICH STATES THAT NO EMISSIONS SHALL BE VISIBLE BEYOND THE PROPERTY LINE OF THE SOURCE? ☒ YES ☐ NO

IF NO, EXPLAIN:

FUGITIVE VOM FROM EQUIPMENT LEAKS (complete if applicable)

21) INDICATE WHICH OF THE FOLLOWING METHODS WAS USED TO ESTIMATE FUGITIVE EMISSIONS OF VOM FROM EQUIPMENT LEAKS:

☐ AVERAGE EMISSION FACTOR ☐ LEAK/NO LEAK EMISSION FACTOR ☐ STRATIFIED EMISSION FACTOR ☐ LEAK RATE/SCREENING VALUE CORRELATION

☐ OTHER; (SPECIFY):

ATTACH A COPY OF THE FINAL REPORT FOR ANY OF THE ABOVE TESTS THAT HAVE BEEN PERFORMED. THIS REPORT SHOULD SUMMARIZE THE TEST PROCEDURES AND RESULTS. LABEL AS 391-6.

22) IS THERE AN ACTIVE INSPECTION AND MONITORING PROGRAM OF EQUIPMENT LEAKS? ☐ YES ☐ NO

IF YES, PROVIDE A DESCRIPTION OF SUCH PROGRAM OR ATTACH THE INSPECTION PROGRAM TO THIS FORM AND LABEL AS 391-7.

FUGITIVE VOM FROM CLEANUP OPERATIONS (complete if applicable)

23) COMPLETE THE FOLLOWING FOR EACH VOM CONTAINING MATERIAL USED FOR CLEANUP FOR WHICH THE EMISSIONS ARE FUGITIVE AND HAVE NOT BEEN ACCOUNTED FOR ELSEWHERE IN THIS APPLICATION:

	GENERIC NAME OF CLEANUP MATERIAL	DENSITY (LB/GAL)	VOM CONTENT (WEIGHT %)	ANNUAL USAGE (GAL/YEAR) MAX	ANNUAL USAGE (GAL/YEAR) TYPICAL
a)					
b)					
c)					

24) EXPLAIN THE MEANS BY WHICH THESE MATERIALS ARE USED AND WHAT EQUIPMENT OR ITEMS ARE BEING CLEANED:

25a) ARE ALL VOM USED IN CLEANUP OPERATIONS CONSIDERED TO BE EMITTED? ☐ YES ☐ NO

IF NO, EXPLAIN:

b) IF APPLICABLE, COMPLETE ITEMS i, ii, AND iii BELOW:

i) PROVIDE THE MAXIMUM AND TYPICAL AMOUNT OF VOM RECLAIMED AND/OR SHIPPED OFF-SITE AND HENCE, NOT EMITTED:

	(GALSYR)	(TONS/YR)
MAX		
TYP		

ii) EXPLAIN THE MEANS BY WHICH VOM IS COLLECTED FOR RECLAMATION AND/OR DISPOSAL:

iii) EXPLAIN THE MEANS BY WHICH THE AMOUNT OF VOM COLLECTED IS MEASURED OR DETERMINED:

FUGITIVE CONTROL

26) COMPLETE THE FOLLOWING, INCLUDING THE MINIMUM AND TYPICAL REDUCTION EFFICIENCY FOR EACH CONTROL MEASURE UTILIZED:

	CONTROL MEASURES	REGULATED AIR POLLUTANT	FUGITIVE POINT(S) CONTROLLED	REDUCTION EFF.(%) MIN	REDUCTION EFF.(%) TYP	FREQUENCY OF CONTROL APPLICATION
a)	Treatment of Paved Roads	PM	Bulk Commodity Haul Roads	90	90	As Needed
b)	Treatment of Unpaved Roads	PM	Bulk Commodity Haul Roads	80	80	As Needed
c)	Moisture Control	PM	Coal Piles	90	90	As Needed
d)	Moisture Control	PM	Limestone Inactive Storage Pile	99	99	As Needed
e)	Covered	PM	Covered Limestone Pile	100	100	Continuous

NOTE: IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-8.

27) PROVIDE A DESCRIPTION OF EACH OF THE CONTROL MEASURES INDICATED IN ITEM 32. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-9

	CONTROL MEASURE(S)	DESCRIPTION
a)	Treatment of Paved Roads	Regularly travelled roads shall be paved once construction is complete as described by the PSD permit. Flushing, vacuuming, dust suppressant application, etc. shall be applied to paved roads as needed to maintain 90 percent control of paved roads on-site.
b)	Treatment of Unpaved Roads	Flushing, vacuuming, dust suppressant application, etc. shall be applied to all unpaved roads as needed to maintain 80 percent control of all unpaved roads on-site.

*Note: The inactive coal pile (EP40C) will have a chemical crusting agent applied instead of water. This will be applied when needed.

27) **(CONTINUED)** PROVIDE A DESCRIPTION OF EACH OF THE CONTROL MEASURES INDICATED IN ITEM 26 IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS 391-9.

	CONTROL MEASURE(S)	DESCRIPTION
c)	Moisture Control (Water)	Sufficient moisture is applied to material storage (coal and limestone piles) to decrease fugitive emissions due to wind erosion and due to maintenance activities performed on the piles.
	Moisture Control (Chemical Agent)	The inactive coal pile will have a chemical crusting agent applied to decrease fugitive emissions due to wind erosion and due to maintenance activities performed on the pile
d)	Covered	The active limestone pile is completely enclosed by a dome which eliminates emissions.
e)		
f)		
g)		
h)		

Exhibit A to 391-CAAPP: Storage Piles Potential-to-Emit Calculations

Control of Open Fugitive Dust Sources Research Triangle Park, North Carolina
EPA-450/3-88-008 September 1988, Page 4-17

$$E = 1.7\left(\frac{s}{1.5}\right)\left(\frac{(365-p)}{235}\right)\left(\frac{f}{15}\right)(lb/day/acre)$$

Nomenclature:

E PM emission factor
PM_{10} Assumed to equal 50% of total PM
$PM_{2.5}$ Assumed to equal 20% of total PM
s Silt Content of Aggregate, (%)
p Number of days with greater than 0.01 in of precipitation per year
f % of time the unobstructed wind speed exceeds 12 mph at the mean pile height

Emission Unit Number	Description	s (%)	Source of s	p	Source of p	f[1] (%)	PM Emission Factor (lb/day/acre)	PM Emission Factor (lb/hr/ft2)	PM_{10} Emission Factor (lb/day/acre)	PM_{10} Emission Factor (lb/hr/ft2)	$PM_{2.5}$ Emission Factor (lb/day/acre)	$PM_{2.5}$ Emission Factor (lb/hr/ft2)
EP40A	Active Coal Pile B	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP40B	Active Coal Pile A	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP40C	Long Term Coal Storage Pile	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP58P	Covered Limestone Pile	1.6	AP-42 Table 13.2.4-1 - Crushed limestone	115	AP-42 Figure 13.1.2-2	24.86	3.20	3.06E-06	1.60	1.53E-06	0.64	6.12E-07
EP62	Limestone Inactive Storage Pile	1.6	AP-42 Table 13.2.4-1 - Crushed limestone	115	AP-42 Figure 13.1.2-2	24.86	3.20	3.06E-06	1.60	1.53E-06	0.64	6.12E-07
EP103A	Mine Coal Storage Pile 1	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP103B	Mine Coal Storage Pile 2	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP103C	Mine Coal Storage Pile 3	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07
EP118	Coal Surge Pile	2.2	AP-42 Table 13.2.4-1 - Coal (as received)	115	AP-42 Figure 13.1.2-2	24.86	4.40	4.20E-06	2.20	2.10E-06	0.88	8.41E-07

Emission Unit Number	Description	Diameter[2] (ft)	Footprint[3] (ft^2)	Control by Moisture or Surfactant (%)	Source	PM Emission Rate (lb/hr)	PM Emission Rate (lb/hr/ft2)	PM Emission Rate (tpy)	PM_{10} Emission Rate (lb/hr)	PM_{10} Emission Rate (lb/hr/ft2)	PM_{10} Emission Rate (tpy)	$PM_{2.5}$ Emission Rate (lb/hr)	$PM_{2.5}$ Emission Rate (lb/hr/ft2)	$PM_{2.5}$ Emission Rate (tpy)
EP40A	Active Coal Pile B	270.00	57,256	90%	PSD Permit Condition 2.2.2.d.ii.A	0.02	4.20E-07	0.11	0.01	2.10E-07	0.05	4.81E-03	8.41E-08	0.02
EP40B	Active Coal Pile A	270.00	57,256	90%	PSD Permit Condition 2.2.2.d.ii.A	0.02	4.20E-07	0.11	0.01	2.10E-07	0.05	4.81E-03	8.41E-08	0.02
EP40C	Long Term Coal Storage Pile	1,061.88	885,600	90%	PSD Permit Condition 2.2.2.d.ii.A	0.37	4.20E-07	1.63	0.19	2.10E-07	0.82	7.45E-02	8.41E-08	0.33
EP58P	Covered Limestone Pile	200	31,416	100%	PSD Permit Condition 2.2.2.d.ii.B	0	0	0	0	0	0	0	0	0
EP62	Limestone Inactive Storage Pile	223.22	39,134	90%	PSD Permit Condition 2.2.2.d.ii.B	0.00	3.06E-08	0.01	0.00	1.53E-08	0.00	2.39E-04	6.12E-09	0.00
EP103A	Mine Coal Storage Pile 1	211.28	35,060	90%	PSD Permit Condition 2.2.2.d.ii.A	0.01	4.20E-07	0.06	0.01	2.10E-07	0.03	2.95E-03	8.41E-08	0.01
EP103B	Mine Coal Storage Pile 2	260.00	53,093	90%	PSD Permit Condition 2.2.2.d.ii.B	0.02	4.20E-07	0.10	0.01	2.10E-07	0.05	4.46E-03	8.41E-08	0.02
EP103C	Mine Coal Storage Pile 3	260.00	53,093	90%	PSD Permit Condition 2.2.2.d.ii.B	0.02	4.20E-07	0.10	0.01	2.10E-07	0.05	4.46E-03	8.41E-08	0.02
EP118	Coal Surge Pile	146.98	16,967	90%	PSD Permit Condition 2.2.2.d.ii.B	0.01	4.20E-07	0.03	0.00	2.10E-07	0.02	1.43E-03	8.41E-08	0.01

[1] Based on 10,887 hours having a wind speed greater than 12 mph over the past 5 years

[2] EP40C, EP58P, EP62, EP118 are diameters based on the plot plan

[3] The footprints of the storage piles are from the facility plot plan drawing

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE
Revision #: _____
Date: ____ / ____ / ____
Page _____ of _____
Source Designation: _____

COMPLIANCE ASSURANCE MONITORING (CAM) PLAN

FOR AGENCY USE ONLY
ID NUMBER:
PERMIT #:
DATE:

FOR INFORMATION ABOUT THE CAM RULE AND THIS FORM, PLEASE REFER TO 40 CFR PART 64. ADDITIONAL INFORMATION (INCLUDING GUIDANCE DOCUMENTS) MAY ALSO BE FOUND AT http://www.epa.gov/ttn/emc/cam.html

SOURCE INFORMATION

1) SOURCE NAME:
PRAIRIE STATE GENERATING STATION

2) DATE FORM PREPARED:	3) SOURCE ID NO.:
06/22/20	189808AAB

BASIS OF CAM SUBMITTAL

4) MARK THE APPROPRIATE BOX BELOW AS TO WHY THIS CAM PLAN IS BEING SUBMITTED AS PART OF AN APPLICATION FOR A CAAPP PERMIT:

☐ RENEWAL APPLICATION. ALL PSEUs (POLLUTANT-SPECIFIC EMISSIONS UNITS CONSIDERED SEPARATELY WITH RESPECT TO EACH REGULATED AIR POLLUTANT) FOR WHICH A CAM PLAN HAS NOT YET BEEN APPROVED NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL.

☐ INITIAL APPLICATION (SUBMITTED AFTER 4/20/98). ONLY LARGE PSEUs (PSEUs WITH POTENTIAL POST-CONTROL DEVICE EMISSIONS OF AN APPLICABLE REGULATED AIR POLLUTANT THAT ARE EQUAL TO OR GREATER THAN MAJOR SOURCE THRESHOLD LEVELS) NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. ONLY LARGE PSEUs BEING MODIFIED AFTER 4/20/98 NEED TO BE ADDRESSED IN THIS CAM PLAN SUBMITTAL. FOR LARGE PSEUs WITH AN APPROVED CAM PLAN, ONLY ADDRESS THE APPROPRIATE MONITORING REQUIREMENTS AFFECTED BY THE SIGNIFICANT MODIFICATION

CAM APPLICABILITY DETERMINATION

5) TO DETERMINE APPLICABILITY, A PSEU MUST MEET ALL OF THE FOLLOWING CRITERIA. COMPLETE PAGES 2 AND 3 FOR ALL PSEUs AT THIS SOURCE. (USE THESE IDENTIFIERS TO INDICATE REASON FOR NON-APPLICABILITY IN BOX 6b, PAGE 3):

a. THE PSEU IS LOCATED AT A MAJOR SOURCE THAT IS REQUIRED TO OBTAIN A CAAPP PERMIT;

b. THE PSEU IS SUBJECT TO AN EMISSION LIMITATION OR STANDARD FOR THE APPLICABLE REGULATED AIR POLLUTANT THAT IS NOT EXEMPT;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR PART 60) OR NESHAP (40 CFR PARTS 61 AND 63) PROPOSED AFTER 11/15/1990.
- STRATOSPHERIC OZONE PROTECTION REQUIREMENTS
- ACID RAIN PROGRAM REQUIREMENTS.
- EMISSION LIMITATIONS OR STANDARDS FOR WHICH A CAAPP PERMIT SPECIFIES A CONTINUOUS COMPLIANCE DETERMINATION METHOD, AS DEFINED IN THE CAM RULE.
- AN EMISSION CAP THAT MEETS THE REQUIREMENTS SPECIFIED IN 40 CFR 70.4(B)(12).

c. THE PSEU USES AN ADD-ON CONTROL DEVICE TO ACHIEVE COMPLIANCE WITH AN EMISSION LIMITATION OR STANDARD;

d. THE PSEU HAS POTENTIAL PRE-CONTROL DEVICE EMISSIONS OF THE APPLICABLE REGULATED AIR POLLUTANT THAT ARE EQUAL TO OR GREATER THAN MAJOR SOURCE THRESHOLD LEVELS; AND

e. THE PSEU IS NOT AN EXEMPT BACKUP UTILITY POWER EMISSIONS UNIT THAT IS MUNICIPALLY-OWNED.

THIS AGENCY IS AUTHORIZED TO REQUIRE AND YOU MUST DISCLOSE THIS INFORMATION UNDER 415 ILCS 5/39. FAILURE TO DO SO COULD RESULT IN THE APPLICATION BEING DENIED AND PENALTIES UNDER 415 ILCS 5 ET SEQ. IT IS NOT NECESSARY TO USE THIS FORM IN PROVIDING THIS INFORMATION. THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER.

6a) BACKGROUND DATA AND INFORMATION – UNITS SUBJECT TO CAM

COMPLETE THE FOLLOWING TABLE AND PAGES 4 AND 5 FOR **ALL** PSEUs THAT ARE SUBJECT TO CAM. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH PSEU IN ORDER TO SUPPLEMENT THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-6a**. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	[a] EMISSION LIMITATION OR STANDARD	[b] MONITORING REQUIREMENT
EP10A	EP10A	EP10A	EP10A	EP10A	EP10A
EP10B	EP10B	EP10B	EP10B	EP10B	EP10B
EXAMPLE COATER #1	METAL PARTS COATING LINE #1	VOM	THERMAL AFTERBURNER #1	(REG) 35 IAC 218.207(b)(1) - 81% OVERALL EMISSIONS REDUCTION (PERMIT) 24.9 TPY OF VOM	35 IAC 218.105(d)(2)(A)(i) - MONITOR AFTERBURNER COMBUSTION CHAMBER TEMPERATURE

[a] INDICATE THE EMISSION LIMITATION OR STANDARD FOR ANY APPLICABLE REQUIREMENT THAT CONSTITUTES AN EMISSION LIMITATION, EMISSION STANDARD, OR STANDARD OF PERFORMANCE EXAMPLES OF EMISSION LIMITATIONS OR STANDARDS MAY INCLUDE PERMITTED EMISSION LIMITATIONS (**PERMIT**), APPLICABLE REGULATIONS (**REG**), WORK PRACTICES (**WP**), PROCESS OR CONTROL DEVICE PARAMETERS (**PAR**), OR OTHER FORMS OF SPECIFIC DESIGN, EQUIPMENT, OPERATIONAL, OR OPERATION AND MAINTENANCE REQUIREMENTS (**OTHER**).

[b] INDICATE THE MONITORING REQUIREMENTS FOR THE CONTROL DEVICE THAT ARE REQUIRED BY AN APPLICABLE REGULATION OR PERMIT CONDITION.

6b) BACKGROUND DATA AND INFORMATION – UNITS NOT SUBJECT TO CAM

COMPLETE THE FOLLOWING TABLE FOR **ALL** PSEUs THAT ARE NOT SUBJECT TO CAM. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH PSEU IN ORDER TO INDICATE THE REASON FOR NON-APPLICABILITY AND JUSTIFY THAT CAM DOES NOT APPLY. YOU MAY ABBREVIATE BY USING THE CRITERIA IDENTIFIERS FROM BOX 5 ON PAGE 1. FOR UNITS NOT SUBJECT TO CAM DUE TO EMISSION LEVELS (i.e., CRITERIA "5d"), INDICATE THE POTENTIAL PRE-CONTROL DEVICE EMISSIONS AND PROVIDE CALCULATIONS AND LABEL AS **EXHIBIT 464-6b** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT. IF NECESSARY, MULTIPLE PSEUs WITH SIMILAR DATA AND INFORMATION MAY BE INCLUDED ON THE SAME LINE TO SAVE SPACE. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-6b**. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	REASON(S) FOR NON-APPLICABILITY
EP10A	EP10A	EP10A	EP10A	EP10A
EP10B	EP10B	EP10B	EP10B	EP10B
EXAMPLE COATER #1	METAL PARTS COATING LINE #1	VOM	THERMAL AFTERBURNER #1	DOES NOT MEET CRITERIA "5d" (PRE-CONTROL PTE IS 15 TONS PER YEAR). SEE EXHIBIT 464-6b FOR PRE-CONTROL PTE CALCULATIONS

6b) BACKGROUND DATA AND INFORMATION – UNITS NOT SUBJECT TO CAM

COMPLETE THE FOLLOWING TABLE FOR **ALL** PSEUs THAT ARE NOT SUBJECT TO CAM. THIS SECTION IS TO BE USED TO PROVIDE BACKGROUND DATA AND INFORMATION FOR EACH PSEU IN ORDER TO INDICATE THE REASON FOR NON-APPLICABILITY AND JUSTIFY THAT CAM DOES NOT APPLY. YOU MAY ABBREVIATE BY USING THE CRITERIA IDENTIFIERS FROM BOX 5 ON PAGE 1. FOR UNITS NOT SUBJECT TO CAM DUE TO EMISSION LEVELS (i.e., CRITERIA "5d"), INDICATE THE POTENTIAL PRE-CONTROL DEVICE EMISSIONS AND PROVIDE CALCULATIONS AND LABEL AS EXHIBIT 464-6b WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT. IF NECESSARY, MULTIPLE PSEUs WITH SIMILAR DATA AND INFORMATION MAY BE INCLUDED ON THE SAME LINE TO SAVE SPACE. IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-6b**. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	REASON(S) FOR NON-APPLICABILITY
Material storage	Active & inactive coal piles, active & inactive limestone piles	PM	Moisture or Surfactant	Does not meet criterion "5d" - Does not have pre-control emissions greater than the major source threshold
Haul Roads	Routes on which material is brought on site via trucks.	PM	Paved Roads and Dust Control	Does not meet criterion "5d" - Does not have pre-control emissions greater than the major source threshold.
EXAMPLE COATER #1	METAL PARTS COATING LINE #1	VOM	THERMAL AFTERBURNER #1	DOES NOT MEET CRITERIA "5d" (PRE-CONTROL PTE IS 15 TONS PER YEAR). SEE EXHIBIT 464-6b FOR PRE-CONTROL PTE CALCULATIONS

[a] CAM MONITORING APPROACH CRITERIA

COMPLETE THIS SECTION FOR EACH PSEU THAT IS SUBJECT TO CAM. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE MONITORING DATA AND INFORMATION FOR EACH INDICATOR SELECTED FOR EACH PSEU IN ORDER TO MEET THE MONITORING DESIGN CRITERIA SPECIFIED IN 40 CFR 64.3 AND 64.4. IF MORE THAN TWO INDICATORS ARE BEING SELECTED FOR A PSEU OR IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-8** WITH THE APPROPRIATE PSEU DESIGNATION, POLLUTANT, AND INDICATOR NOs. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

7a) PSEU DESIGNATION	7b) POLLUTANT	7c) [b] INDICATOR NO. 1	7d) [b] INDICATOR NO. 2
EP10A	PM	EP10A	EP10A
8a) GENERAL CRITERIA DESCRIBE THE MONITORING APPROACH USED TO MEASURE THE INDICATORS.		EP10B	EP10B
[c] ESTABLISH THE APPROPRIATE INDICATOR RANGE OR THE PROCEDURES FOR ESTABLISHING THE INDICATOR RANGE WHICH PROVIDES A REASONABLE ASSURANCE OF COMPLIANCE.			
[d] PROVIDE QUALITY IMPROVEMENT PLAN (QIP) THRESHOLD LEVELS.			
8b) PERFORMANCE CRITERIA PROVIDE THE SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, SUCH AS DETECTOR LOCATION AND INSTALLATION SPECIFICATIONS.			
PROVIDE VERIFICATION PROCEDURES, INCLUDING MANUFACTURER'S RECOMMENDATIONS, TO CONFIRM THE OPERATIONAL STATUS OF THE MONITORING.			
PROVIDE QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES THAT ARE ADEQUATE TO ENSURE THE CONTINUING VALIDITY OF THE DATA, CONSIDERING MANUFACTURER'S RECOMMENDATIONS.			
[e] PROVIDE THE MONITORING FREQUENCY.			
PROVIDE THE DATA COLLECTION PROCEDURES THAT WILL BE USED.		Data collection and archiving through the Distributed Control System	Data collection and archiving through the Distributed Control System
PROVIDE THE DATA AVERAGING PERIOD FOR THE PURPOSE OF DETERMINING WHETHER AN EXCURSION OR EXCEEDANCE HAS OCCURRED.		3-hour block average, start at 00:00 each day, excluding startup, shutdown, malfunction	3-hour block average, start at 00:00 each day, excluding startup, shutdown, malfunction

[a] IF CEMS, COMS, OR PEMS ARE USED, THEN THIS SECTION NEED NOT BE COMPLETED **ONLY** FOR THE CEMS, COMS, OR PEMS, EXCEPT THAT THE SPECIAL CRITERIA INFORMATION OF 40 CFR 64.3(d) MUST BE PROVIDED AS **EXHIBIT 464-CEMS, COMS, PEMS**.

[b] DESCRIBE ALL INDICATORS TO BE MONITORED WHICH SATISFIES 40 CFR 64.3(a). INDICATORS OF EMISSION CONTROL PERFORMANCE FOR THE CONTROL DEVICE AND ASSOCIATED CAPTURE SYSTEM MAY INCLUDE MEASURED OR PREDICTED EMISSIONS (INCLUDING VISIBLE EMISSIONS OR OPACITY), PROCESS AND CONTROL DEVICE OPERATING PARAMETERS THAT AFFECT CONTROL DEVICE (AND CAPTURE SYSTEM) EFFICIENCY OR EMISSION RATES, OR RECORDED FINDINGS OF INSPECTION AND MAINTENANCE ACTIVITIES.

[c] INDICATOR RANGES MAY BE BASED ON A SINGLE MAXIMUM OR MINIMUM VALUE OR AT MULTIPLE LEVELS THAT ARE RELEVANT TO DISTINCTLY DIFFERENT OPERATING CONDITIONS, EXPRESSED AS A FUNCTION OF PROCESS VARIABLES, EXPRESSED AS MAINTAINING THE APPLICABLE INDICATOR IN A PARTICULAR OPERATIONAL STATUS OR DESIGNATED CONDITION, OR ESTABLISHED AS INTERDEPENDENT BETWEEN MORE THAN ONE INDICATOR.

[d] THE QIP THRESHOLD LEVEL IS A LEVEL AT WHICH THE TOTAL DURATION OF EXCURSIONS OR EXCEEDANCES AT THE PSEU IS GREATER THAN 5% OF THE PSEU'S TOTAL OPERATING TIME DURING THE REPORTING PERIOD. (EXAMPLE: 5 OF 90 OPERATING DAYS WERE OUTSIDE THE INDICATOR RANGE DURING THE REPORTING PERIOD.)

[e] AT A MINIMUM, LARGE PSEUs MUST COLLECT FOUR OR MORE DATA VALUES EQUALLY SPACED OVER EACH HOUR AND THOSE VALUES AVERAGED. ALL OTHER PSEUs MUST COLLECT DATA AT LEAST ONCE PER 24-HOUR PERIOD.

RATIONALE AND JUSTIFICATION

COMPLETE THIS SECTION FOR EACH PSEU THAT IS SUBJECT TO CAM. THIS SECTION MAY BE COPIED AS NEEDED FOR EACH PSEU. THIS SECTION IS TO BE USED TO PROVIDE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF EACH INDICATOR AND MONITORING APPROACH AND EACH INDICATOR RANGE IN ORDER TO MEET THE SUBMITTAL REQUIREMENTS SPECIFIED IN 40 CFR 64.4. FAILURE TO COMPLETE THIS SECTION IN ITS ENTIRETY MAY RESULT IN THE CAAPP APPLICATION BEING DEEMED INCOMPLETE OR DENIED.

9a) PSEU DESIGNATION:	9b) POLLUTANT:
EP10A	PM

10) INDICATORS AND THE MONITORING APPROACH. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATORS AND THE MONITORING APPROACH USED TO MEASURE THE INDICATORS. ALSO PROVIDE ANY DATA SUPPORTING THE RATIONALE AND JUSTIFICATION. EXPLAIN THE REASONS FOR ANY DIFFERENCES BETWEEN THE VERIFICATION OF OPERATIONAL STATUS OR THE QUALITY ASSURANCE AND CONTROL PRACTICES PROPOSED AND THE MANUFACTURER'S RECOMMENDATIONS. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-10** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

(1) The DESP is the primary APCD whose performance assures compliance with the PM emission standard. Its normal operating condition is best tracked by monitoring secondary current in each row of its TR sets. For each of the four rows, there is a normal operating range of secondary current that has been derived from historical operation. These ranges are consistent with highly efficient particulate matter reduction in the flue gas stream. (2) The PM CEMS provides data for a concentration of particulate matter (filterable) in the stack flue gas stream. The concentration is a correlated value based on the certification test performed according to 40 CFR 60, Appendix B, Performance Specification 11.

11) INDICATOR RANGES. PROVIDE THE RATIONALE AND JUSTIFICATION FOR THE SELECTION OF THE INDICATOR RANGES. THE RATIONALE AND JUSTIFICATION SHALL INDICATE HOW **EACH** INDICATOR RANGE WAS SELECTED BY EITHER A COMPLIANCE OR PERFORMANCE TEST, A TEST PLAN AND SCHEDULE, OR BY ENGINEERING ASSESSMENTS. DEPENDING ON WHICH METHOD IS BEING USED FOR EACH INDICATOR RANGE, INCLUDE THE SPECIFIC INFORMATION REQUIRED BELOW FOR THAT SPECIFIC INDICATOR RANGE. (IF ADDITIONAL SPACE IS NEEDED, ATTACH AND LABEL AS **EXHIBIT 464-11** WITH THE APPROPRIATE PSEU DESIGNATION AND POLLUTANT):

- COMPLIANCE OR PERFORMANCE TEST (INDICATOR RANGES DETERMINED FROM CONTROL DEVICE OPERATING PARAMETER DATA OBTAINED DURING A COMPLIANCE OR PERFORMANCE TEST CONDUCTED UNDER REGULATORY SPECIFIED CONDITIONS OR UNDER CONDITIONS REPRESENTATIVE OF MAXIMUM POTENTIAL EMISSIONS UNDER ANTICIPATED OPERATING CONDITIONS. SUCH DATA MAY BE SUPPLEMENTED BY ENGINEERING ASSESSMENTS AND MANUFACTURER'S RECOMMENDATIONS). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE A SUMMARY OF THE COMPLIANCE OR PERFORMANCE TEST RESULTS THAT WAS USED TO DETERMINE THE INDICATOR RANGE AND DOCUMENTATION INDICATING THAT NO CHANGES HAVE TAKEN PLACE THAT COULD RESULT IN A SIGNIFICANT CHANGE IN THE CONTROL SYSTEM PERFORMANCE OR THE SELECTED INDICATOR RANGES SINCE THE COMPLIANCE OR PERFORMANCE TEST WAS CONDUCTED.
- TEST PLAN AND SCHEDULE (INDICATOR RANGES WILL BE DETERMINED FROM A PROPOSED IMPLEMENTATION PLAN AND SCHEDULE FOR INSTALLING, TESTING, AND PERFORMING ANY OTHER APPROPRIATE ACTIVITIES PRIOR TO USE OF THE MONITORING). THE RATIONALE AND JUSTIFICATION SHALL INCLUDE THE PROPOSED IMPLEMENTATION PLAN AND SCHEDULE THAT WILL PROVIDE FOR USE OF THE MONITORING AS EXPEDITIOUSLY AS PRACTICABLE AFTER APPROVAL OF THIS CAM PLAN, BUT IN NO CASE SHALL THE SCHEDULE FOR COMPLETING INSTALLATION AND BEGINNING OPERATION OF THE MONITORING EXCEED 180 DAYS AFTER APPROVAL.
- ENGINEERING ASSESSMENTS (INDICATOR RANGES OR THE PROCEDURES FOR ESTABLISHING INDICATOR RANGES ARE DETERMINED FROM ENGINEERING ASSESSMENTS AND OTHER DATA, SUCH AS MANUFACTURERS' DESIGN CRITERIA AND HISTORICAL MONITORING DATA, BECAUSE FACTORS SPECIFIC TO THE TYPE OF MONITORING, CONTROL DEVICE, OR PSEU MAKE COMPLIANCE OR PERFORMANCE TESTING UNNECESSARY). THE RATIONALE AND JUSTIFICAITON SHALL INCLUDE DOCUMENTATION DEMONSTRATING THAT COMPLIANCE TESTING IS NOT REQUIRED TO ESTABLISH THE INDICATOR RANGE.

RATIONALE AND JUSTIFICATION:

The indicator range (in accordance with Performance Specification 11 of 40 CFR 60, Appendix B) will be validated and/or adjusted based on the most recent PM CEMS certification stack test data.

Exhibit 464-CEMS, COMS, PEMS

40 CFR 64.3(d) Special criteria for the use of continuous emission, opacity or predictive monitoring systems.

(1) If a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS) or predictive emission monitoring system (PEMS) is required pursuant to other authority under the Act or state or local law, the owner or operator shall use such system to satisfy the requirements of this part.

A PM CEMS is required to be installed on the Unit 1 (EU10A) and Unit 2 (EU10B) pursuant to Condition 2.1.10(d)(i) of the PSD Permit (01100065). As such the PM CEMS will be used to satisfy the requirements of CAM for EU10A and EU10B and associated controls.

(2) The use of a CEMS, COMS, or PEMS that satisfies any of the following monitoring requirements shall be deemed to satisfy the general design criteria in paragraphs (a) and (b) of this section, provided that a COMS may be subject to the criteria for establishing indicator ranges under paragraph (a) of this section:

(i) Section 51.214 and appendix P of part 51 of this chapter;

(ii) Section 60.13 and appendix B of part 60 of this chapter;

(iii) Section 63.8 and any applicable performance specifications required pursuant to the applicable subpart of part 63 of this chapter;

(iv) Part 75 of this chapter;

(v) Subpart H and appendix IX of part 266 of this chapter; or

(vi) If an applicable requirement does not otherwise require compliance with the requirements listed in the preceding paragraphs (d)(2)(i) through (v) of this section, comparable requirements and specifications established by the permitting authority.

The PM CEMS is required by 40 CFR Part 63 (Subpart UUUUU) and 40 CFR Part 60 (Subpart Da) to conform to design criteria specified in those subparts. Therefore, the certified PM CEMS satisfies the general design criteria in 40 CFR 64.3(a) and (b).

(3) The owner or operator shall design the monitoring system subject to this paragraph (d) to:

(i) Allow for reporting of exceedances (or excursions if applicable to a COMS used to assure compliance with a particulate matter standard), consistent with any period for reporting of exceedances in an underlying requirement. If an underlying requirement does not contain a provision for establishing an averaging period for the reporting of exceedances or excursions, the criteria used to develop an averaging period in (b)(4) of this section shall apply; and

Pursuant to the PSGC PSD permit condition 2.1.2.b.i, the PM limit is applied in three hour block averages, and compliance is determined by stack testing.

(ii) Provide an indicator range consistent with paragraph (a) of this section for a COMS used to assure compliance with a particulate matter standard. If an opacity standard applies to the pollutant-specific emissions unit, such limit may be used as the appropriate indicator range unless the opacity limit fails to

meet the criteria in paragraph (a) of this section after considering the type of control device and other site-specific factors applicable to the pollutant-specific emissions unit.

N/A

PSGC - Attachment 3

4) Name of Emission Unit[1]	8) Flow Diagram Designation	12a) Construction	12b) Operation	15) Control Equipment	21a) Raw Materials					21b) Products				
					Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr	Raw Mat'l	Max lb/hr	Max ton/yr	Typ lb/hr	Typ ton/yr
MC-1 to MC-2	EU104	Sep-07	Jan-10	Chutes with Dust Suppression Spray (EC104)	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090
MC-2 to 6,000 Ton Surge Pile	EU118A	Sep-07	Jan-10	Dust Suppression Spray (EC118A)	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090	Coal	8,000,000	7,546,091	<8,000,000	<7,546,090
MC-3 to Screening Facility	EU105-1	Sep-07	May-11	Chutes with Dust Suppression Spray (EC105A)	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045
MC-4 to Screening Facility	EU105-2	Sep-07	May-11	Chutes with Dust Suppression Spray (EC105A)	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045	Coal	2,800,000	3,773,045	<2,800,000	<3,773,045
Screening Facility to MC-8	EU105-3	Sep-07	May-11	Chutes with Dust Suppression Spray (EC105A)	Coal	4,800,000	6,245,041	<4,800,000	<6,245,040	Coal	4,800,000	6,245,041	<4,800,000	<6,245,040
Screening Facility to Rotary Breaker	EU105-4	Sep-07	May-11	Chutes with Dust Suppression Spray (EC105A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
Rotary Breaker to MC-7	EU105-5	Sep-07	May-11	Chutes with Dust Suppression Spray (EC105A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
Rotary Breaker to RC-6	EU105-6	Sep-07	May-11	Enclosure / Dust Suppression Spray (EC105B)	Coal	36,000	113,061	<36,000	<113,061	Coal	36,000	113,061	<36,000	<113,061
RC-6 to Refuse Bin	EU107-1	Sep-07	May-11	Dust Suppression Spray (EC107)	Reject Coal	36,000	113,061	<36,000	<113,061	Reject Coal	36,000	113,061	<36,000	<113,061
Refuse Bin to Truck	EU107-2	Sep-07	May-11	Dust Suppression Spray (EC107)	Reject Coal	36,000	113,061	<36,000	<113,061	Reject Coal	36,000	113,061	<36,000	<113,061
MC-7 to Coal Pile Stack Tube A	EU102A	Sep-07	May-11	Dust Suppression Spray (EC102A)	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050	Coal	1,000,000	1,301,050	<1,000,000	<1,301,050
MC-8 to Coal Pile Stack Tube B	EU102B-1	Sep-07	May-11	Dust Suppression Spray (EC102B-1)	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520
MC-8 to MC-9	EU102B-2	Sep-07	May-11	Chutes with Dust Suppression Spray (EC102B-2)	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520	Coal	4,800,000	3,122,520	<4,800,000	<3,122,520
MC-9 to Coal Pile Stack Tube C	EU102C	Sep-07	May-11	Dust Suppression Spray (EC102C)	Coal	4,800,000	3,065,990	<4,800,000	<3,065,989	Coal	4,800,000	3,065,990	<4,800,000	<3,065,989
MC-11 to C-1	EU16B	Sep-07	May-11	Chutes with Dust Suppression Spray (EC16B)	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029
C-1 to C-2	EU44/45-1	Sep-07	May-11	Dust Collector (EC44/45)	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029	Coal	5,200,000	7,433,030	<5,200,000	<7,433,029
C-1 to Surge Bin	EU44/45-2	Sep-07	May-11	Dust Collector (EC44/45)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-4A to Surge Bin	EU44/45-3	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-4B to Surge Bin	EU44/45-4	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Surge Bin to Belt Feeder A	EU44/45-5	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Surge Bin to Belt Feeder B	EU44/45-6	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Belt Feeder A to Screen A	EU44/45-7	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Belt Feeder B to Screen B	EU44/45-8	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Screen A Grizzly to Granulator Crusher A	EU44/45-9	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen B Grizzly to Granulator Crusher B	EU44/45-10	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen A Grizzly to C-5A	EU44/45-11	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Screen B Grizzly to C-5B	EU44/45-12	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Granulator Crusher A to C-5A	EU44/45-13	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
Granulator Crusher B to C-5B	EU44/45-14	Sep-07	May-11	Dust Collector (EC44/45)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-2 to Active Pile Stack Tube B	EU49-1	Sep-07	May-11	Dust Suppression Spray (EC49-1)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-2 to C-3	EU49-2	Sep-07	May-11	Chutes with Dust Suppression Spray (EC49-2)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
C-3 to Coal Pile A	EU48	Sep-07	May-11	Dust Suppression Spray (EC48)	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514	Coal	5,200,000	3,716,515	<5,200,000	<3,716,514
Storage Coal Piles (A&B) to Stamler Feeder	EU41B1	Sep-07	May-11	Dust Suppression Spray (EC41B1)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
Stamler Feeder to Conveyor C-4A	EU41B2	Sep-07	May-11	Dust Suppression Spray (EC41B2)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-5A to C-6A	EU1/50B-1	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-5B to C-6B	EU1/50B-2	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514	Coal	4,000,000	3,716,515	<4,000,000	<3,716,514
C-6A to Unit 1 Loading	EU1/50B-3	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6B to Unit 1 Loading	EU1/50B-4	Sep-07	May-11	Dust Collector (EC1/50B)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6A to Unit 2 Loading	EU2-1	Sep-07	May-11	Dust Collector (EC2)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257
C-6B to Unit 2 Loading	EU2-2	Sep-07	May-11	Dust Collector (EC2)	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257	Coal	4,000,000	1,858,257	<4,000,000	<1,858,257

Notes

[1] MC = Mine Conveyor, RC = Reject Conveyor, C = Conveyor

R0984

PSGC - Attachment 5

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	9a) Construction	9b) Operation	11) EU Ducting Emissions	30a) Control Performance			
							Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Chutes with Dust Suppression Spray	EC104	Dust Solutions, Inc	N/A	Sep-07	Jan-10	EU104	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC118A	Dust Solutions, Inc	N/A	Sep-07	Jan-10	EU118A	PM	N/A	90.0%	90.0%
Chutes with Dust Suppression Spray	EC105A	Dust Solutions, Inc	N/A	Sep-07	May-11	EU105-1,2,3,4,5	PM	N/A	99.5%	99.5%
Enclosure / Dust Suppression Spray	EC105B	Dust Solutions, Inc	N/A	Sep-07	May-11	EU105-6	PM	100%	99.5%	99.5%
Dust Suppression Spray	EC107	Dust Solutions, Inc	N/A	Sep-07	May-11	EU107-1,2	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC102A	Dust Solutions, Inc	N/A	Sep-07	May-11	EU102A	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC102B-1	Dust Solutions, Inc	N/A	Sep-07	May-11	EU102B-1	PM	N/A	90.0%	90.0%
Chutes with Dust Suppression Spray	EC102B-2	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU102B-2	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC102C	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU102C	PM	N/A	90.0%	90.0%
Chutes with Dust Suppression Spray	EC16B	Dust Solutions, Inc.	N/A	Sep-07	May-11	EU16B	PM	N/A	99.5%	99.5%
Dust Collector	EC44/45	Airtrol	192RRWT120	Sep-07	May-11	EU44/45-1,2,3,4,5,6,7,8,9,10,11,12,13,14	PM	100%	99.5%	99.5%
Dust Suppression Spray	EC49-1	FMC	N/A	Sep-07	May-11	EU49-1	PM	N/A	90.0%	90.0%
Chutes with Dust Suppression Spray	EC49-2	FMC	N/A	Sep-07	May-11	EU49-2	PM	N/A	99.5%	99.5%
Dust Suppression Spray	EC48	FMC	N/A	Sep-07	May-11	EU48	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC41B1	FMC	N/A	Sep-07	May-11	EU41B1	PM	N/A	90.0%	90.0%
Dust Suppression Spray	EC41B2	FMC	N/A	Sep-07	May-11	EU41B2	PM	N/A	90.0%	90.0%
Dust Collector	EC1/50B	Airtrol	484RRWT120	Sep-07	May-11	EU1/50B-1,2,3,4	PM	100%	99.5%	99.5%
Dust Collector	EC2	Airtrol	428RRWT120	Sep-07	May-11	EU2-1,2	PM	100%	99.5%	99.5%

PSGC - Attachment 8

1) Flow Diagram	2) Generic Name	3) Description	4) Inlet Emission Stream Parameters				6) Control Operating Parameters			
			Pressure (mmHg)	Oxygen Content	Moisture Content (%)	Relative Humidity	Inlet Gas Temp (F)	Inlet Gas Flow Rate (SCFM)	Efficiency (PM)	Efficiency (PM_{10})
EC104	Chutes with Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC118A	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC105A	Chutes with Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC105B	Enclosure / Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC107	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102A	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102B-1	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC102B-2	Chutes with Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC102C	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC16B	Chutes with Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC49-1	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC49-2	es with Dust Suppression S	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	99.5%	99.5%
EC48	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC41B1	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%
EC41B2	Dust Suppression Spray	Dry dust suppression spray system for continuous application of water at material transfer point during operation	Ambient	Ambient	12.4	Ambient	Ambient	N/A	90.0%	90.0%

PSGC - Attachment 16

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	8) Serial Number	11) EU Ducting Emissions	30a) Control Performance			
						Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Bin Vent Filter	EC15A1	Wheelabrator	3944-CSFE	3944	EU15A1	PM	100%	99.9%	99.9%
Bin Vent Filter	EC15A2	Wheelabrator	3944-CSFE	3944	EU15A2	PM	100%	99.9%	99.9%
Bin Vent Filter	EC15A3	Wheelabrator	3944-CSFE	3944	EU15A3	PM	100%	99.9%	99.9%
Bin Vent Filter	EC15A4	Wheelabrator	3944-CSFE	3944	EU15A4	PM	100%	99.9%	99.9%

PSGC - Attachment 21

4) Name of Control Equipment	5) Flow Diagram Designation	6) Manufacturer	7) Model Number	11) EU Ducting Emissions	30a) Control Performance			
					Pollutant	Cap. Eff.	Cont. Eff.	Overall Eff.
Dust Collector	EC15B1	Wheelabrator	36 WCC	EU15B1	PM	100%	99.9%	99.9%
Dust Collector	EC15B2	Wheelabrator	36 WCC	EU15B2	PM	100%	99.9%	99.9%

APPENDIX B: FUGITIVE DUST PLANS

FUGITIVE PARTICULATE MATTER EMISSION OPERATING PROGRAM

REVISION 2

6/24/20

PRAIRIE STATE GENERATING STATION

MARISSA, IL

SECTION I
Plan Purpose and Structure

A. Purpose

This written operating program is required by the Prairie State Generating Company (PSGC) Prevention of Significant Deterioration (PSD) air pollution permit, issued by the Illinois Environmental Protection Agency on April 28, 2005. It describes the measures implemented to control fugitive particulate matter emissions at each area of the facility with the potential to generate such emissions in more than trivial amounts. This written operating program herein is referred to as the "Plan".

The scope of this Plan includes bulk material handling operations and facility roads and open areas subject to vehicle travel, whose fugitive particulate matter emissions are required by the PSD permit to be controlled. Bulk material handling operations involve coal and coal reject material, limestone, fly ash, hydrated lime, powdered activated carbon, quicklime, and soda ash.

B. Structure

The Plan is divided into the following sections:

- Section I – Purpose and Structure
- Section II – General Plan Information
- Section III – Power Plant Fugitive Emission Controls
- Section IV – Lively Grove Mine Fugitive Emission Controls
- Section V – Plan Revision History
- Section VI – Reference Materials

SECTION II
General Plan Information

A. Facility Information

Facility Information

Facility Name: Prairie State Generating Station

Operator Name: Prairie State Generating Company, LLC

Facility Addresses:
Power Plant: 1739 New Marigold Road, Marissa, IL 62257
Mine: 4274 County Highway #12, Marissa, IL 62257

Facility Environmental Contact:
Director, Environmental Services: (618) 824-7655

B. Regulatory Background

Fugitive emissions are generally defined as those which cannot reasonably pass through a stack, chimney, vent, or other functionally equivalent opening. Title 35 of the Illinois Administrative Code, Subtitle A, Chapter 1, Part 211, defines fugitive particulate matter:

> Section 211.2490, Fugitive Particulate Matter
> "Fugitive particulate matter" means any particulate matter emitted into the atmosphere other than through a stack, provided that nothing in this definition or in 35 Ill. Adm. Code 212, Subpart K shall exempt any emission unit from compliance with other provisions of 35 Ill. Adm. Code 212 otherwise applicable merely because of the absence of a stack.

And a stack is defined:

> Section 211.6230, Stack
> "Stack" means a flue or conduit, free-standing or with exhaust port above the roof of the building on which it is mounted, by which air contaminants are emitted into the atmosphere.

Particulate matter emission sources controlled by dust collectors, bin vents, enclosures, buildings, and other such physical structures that provide 100 percent emission capture by design are not considered to be fugitive emission sources.

PSD Air Pollution Permit

This Plan is required to be developed by PSGC's PSD permit, under Condition 2.2 that describes emission control of bulk material handling operations, and Condition 2.5 that describes emission control of facility roadways and open areas that have regular vehicular traffic.

The specific requirements of Condition 2.2.6.b, which requires the Plan, are:

b. i. The Permittee shall carry out control of fugitive particulate matter emissions from affected units in accordance with a written operating program describing the measures being implemented in accordance with Conditions 2.2.2 and 2.2.6(a) to control emissions at each area of the plant with the potential to generate more than trivial amounts of such emissions, which program shall be kept current.

A. This program shall include maps or diagrams indicating the location of affected units with the potential for fugitive emissions, accompanied by the following information for each such unit: a general description of the unit, its size (area or volume), the expected level of activity, the nature and extent of enclosure, and a description of installed air pollution control equipment.

B. This program shall include a detailed description of any additional emission control techniques (e.g., water or surfactant spray) including: typical flow of water and additive concentration; rate or normal frequency at which measures would be implemented; circumstances in which the measures would not be implemented e.g., adequate surface moisture on material; triggers for additional control, e.g. observation of 10 percent or greater opacity; and calculated control efficiency.

Permit Condition 2.2.2 states:

a. Emissions of particulate matter from affected units, other than storage piles, including associated material handling operations, coal-handling operations at the mine facility, and the transfer belt between the mine facility and the power plant facility, shall be controlled with enclosures and aspiration to baghouses or other filtration devices. These control devices shall be operated in accordance with good air pollution control practices to minimize emissions.

b. There shall be no visible fugitive emissions, as defined by 40 CFR 60.671, from storage buildings unless such emissions comply with the requirements of Condition 2.2.3(a).

c. i. Coal handling operations at the mine facility, other than associated with storage piles, and the transfer belt between the mine facility and the power plant facility shall be controlled by enclosure or covers and fogging, material quality, or application of water or other dust suppressants so as to minimize fugitive emissions to the extent practicable.

ii. For this purpose, for each affected unit, either (1) there shall be no visible emissions from the affected unit, as determined in accordance with USEPA Method 22, or (2) a nominal control efficiency for particulate matter emissions of at least 99 percent shall be achieved from the uncontrolled emission rate, as determined using appropriate USEPA emission factors for uncontrolled particulate emissions and engineering analysis and calculations.

d. i. Storage piles, including material handling operations associated with the piles, shall be controlled by application of water or other dust suppressants so as to minimize fugitive emissions to the extent practicable.

ii. A. For this purpose, except for limestone, a nominal control efficiency of at least 90 percent shall be achieved from the uncontrolled emission rate, as determined using appropriate USEPA emission factors for uncontrolled particulate emissions and engineering analysis and calculations.

B. For limestone, (1) a nominal control efficiency of at least 99 percent shall be achieved, or (2) there shall be no visible emissions from the affected unit, as determined in accordance with USEPA Method 22.

Permit Condition 2.2.6.a states:

a. i. The power plant facility shall be designed and operated to store bulk materials that have the potential for particulate matter emissions, other than coal, limestone, wetted bottom ash and scrubber sludge, in silos, bins, and buildings, without storage of such material in outdoor piles except on a temporary basis during breakdown or other disruption in the capabilities of the enclosed storage facilities.

ii. Outdoor coal piles shall be equipped and operated with adjustable stacker(s), rotary stacker(s), ladders or other comparable devices to minimize the distance that material drops when added to the pile and minimize the associated particulate matter emissions.

The specific requirements of Condition 2.5.6.a, which requires the Plan, are:

a. The Permittee shall carry out control of fugitive particulate matter emissions from affected units in accordance with a written operating program describing the measures being implemented in accordance with Conditions 2.5.2 and 2.5.4 to control emissions at each unit with the potential to generate significant quantities of such emissions, which program shall be kept current.

i. This program shall include maps or diagrams indicating the location of affected units with the potential to generate significant quantities of fugitive particulate matter, with description of the unit (length, width, surface material, etc.) and volume and nature of expected vehicle traffic, or other activity on such unit, and an identification of any roadways that are not considered routinely traveled, with justification.

ii. This program shall include a detailed description of the emissions control technique (e.g., vacuum truck, water spray, surfactant spray, water flushing, dust suppressant application, or sweeping) for the affected unit, including: typical application rate; type and concentration of additives; normal frequency with which measures would be implemented; circumstances, in which the measure would not be implemented, e.g., recent precipitation; triggers for additional control, e.g., observation of 10 percent opacity; and calculated control efficiency for particulate matter emissions.

Permit Condition 2.5.2 states:

a. i. Good air pollution control practices shall be implemented to minimize and significantly reduce nuisance dust from affected units. After construction of the plant is complete, these practices shall provide for pavement on all regularly

traveled roads and treatment (flushing, vacuuming, dust suppressant application, etc.) of paved and unpaved roads and areas that are routinely subject to vehicle traffic for very effective and effective control of dust, respectively (nominal 90 percent control for paved roads and areas and 80 percent control for unpaved roads and areas).

ii. For this purpose, roads that serve a main office, employee parking areas or are used on a daily basis by operating and maintenance personnel for the plant in the course of their typical duties, roads that experience heavy use during regularly occurring maintenance of the power plant facility during the course of a year, shall all be considered to be subject to regular travel and are required to be paved. Regularly traveled roads shall be considered to be subject to routine vehicle traffic except as they are used primarily for periodic maintenance and are currently inactive or as traffic has been temporarily blocked off. Other roads shall be considered to be routinely traveled if activities are occurring such that they are experiencing significant vehicle traffic.

b. The handling of material collected from any affected unit by sweeping or vacuuming trucks shall be enclosed or shall utilize spraying, pelletizing, screw conveying or other equivalent methods to control emission of particulate matter.

Permit Condition 2.5.4 states:

a. Affected units shall comply with 35 IAC 212.301, which provides that emissions of fugitive particulate matter shall not be visible from any process, including any material handling or storage activity, when looking generally toward the zenith at a point beyond the property line of the source, except when the wind speed is greater than 25 miles per hour, as provided by 35 IAC 212.314.

C. Sources of Particulate Matter Emissions

Coal Handling, Conveying, Processing/Preparation, and Storage

Coal is conveyed from the mine to power plant for immediate use or storage. Handling equipment (conveyors, stackers, and bins), sizing equipment (screens, breakers, grizzlies, and crushers), and storage piles are employed at the power plant and mine.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP16B	Mine Conveyor 11 Transfer to Conveyor C1	Chutes with Fogging and Building Enclosure	Fugitive
EP44/45	Conveyor C1 Transfer to Conveyor C2;	Dust Collector	Point
	Conveyor C1 Transfer to Surge Bin		
	Conveyor C4A Transfer to Surge Bin		
	Conveyor C4B Transfer to Surge Bin		
	Surge Bin Transfer to Belt Feeder A or B		
	Belt Feeder A or B Transfer to Screen A or B		
	Screen A or B Grizzly Transfer to Crusher A or B		

	Screen A or B Grizzly Transfer to Conveyor C5A or C5B		
	Crusher A or B Transfer to Conveyor C5A or C5B		
EP49A	Conveyor C2 Transfer to Pile B	Stacking Tube and Dust Suppression Spray	Fugitive
EP49B	Conveyor C2 Transfer to Conveyor C3	Chutes with Fogging	Fugitive
EP48	Conveyor C3 Transfer to Pile A	Stacking Tube and Dust Suppression Spray	Fugitive
EP41B1	Pile A or B Transfer to Stamler Feeder	Dust Suppression Spray	Fugitive
EP41B2	Stamler Feeder Transfer to Conveyor C4A	Dust Suppression Spray	Fugitive
EP1/50B	Conveyor C5A Transfer to Conveyor C6A	Dust Collector	Point
	Conveyor C5B Transfer to Conveyor C6B		
	Conveyor C6A Transfer to Unit 01 (EP10A)		
	Conveyor C6B Transfer to Unit 01 (EP10A)		
EP2	Conveyor C6A Transfer to Unit 02 (EP10B)	Dust Collector	Point
	Conveyor C6B Transfer to Unit 02 (EP10B)		
EP40A	Active Coal Pile B	Material Moisture, Dust Suppression Spray	Fugitive
EP40B	Active Coal Pile A	Material Moisture, Dust Suppression Spray	Fugitive
EP40C	Long Term Coal Storage Pile	Material Moisture, Dust Suppression Spray	Fugitive
Mine			
Emission Unit	Description	Air Pollution Control Device Design	Point or Fugitive Source
EP104	Conveyor 1 Transfer to Conveyor 2	Chutes with Fogging	Fugitive
EP118A	Conveyor 2 Transfer to Surge Pile	Adjustable Stacker and Dust Suppression Spray	Fugitive
EP105	Conveyor 3 Transfer to Screening Facility	Building Enclosure and Chutes with Fogging	Fugitive
	Conveyor 4 Transfer to Screening Facility		
	Screening Facility Transfer to Conveyor 8		
	Screening Facility Transfer to Rotary Breaker		
	Rotary Breaker Transfer to Conveyor 7		
	Rotary Breaker Transfer to Reject Conveyor 6		
EP107	Reject Conveyor 6 Transfer to Refuse Bin	Enclosed Chute and Dust Suppression Spray	Fugitive
	Refuse Bin Transfer to Truck	Dust Suppression Spray	Fugitive
EP102A	Conveyor 7 Transfer to Pile 1	Building Enclosure, Stacking Tube and Dust Suppression Spray	Fugitive
EP102B	Conveyor 8 Transfer to Pile 2	Building Enclosure, Stacking Tube and Dust Suppression Spray	Fugitive

	Conveyor 8 Transfer to Conveyor 9	Building Enclosure, Stacking Tube and Dust Suppression Spray	Fugitive
EP102C	Conveyor 9 Transfer to Pile 3	Building Enclosure and Dust Suppression Spray	Fugitive
EP118	Surge Pile	Material Moisture, Dust Suppression Spray	Fugitive
EP103A	Storage Pile 1	Material Moisture, Dust Suppression Spray	Fugitive
EP103B	Storage Pile 2	Material Moisture, Dust Suppression Spray	Fugitive
EP103C	Storage Pile 3	Material Moisture, Dust Suppression Spray	Fugitive

Fly Ash Handling, Conveying, and Storage

Fly ash is generated from the combustion of coal in the two boilers used to produce electricity at the power plant. Fly ash is conveyed pneumatically into two storage silos and discharged through enclosed piping to pugmills, where it is wetted prior to disposal.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP14A	Unit 01 Fly Ash Storage Silo	Bin Vent Filter	Point
EP14B	Unit 02 Fly Ash Storage Silo	Bin Vent Filter	Point

Limestone Receiving, Handling, Conveying, Processing, and Storage

Limestone is a product used by the FGD for the control of SO_2 in the power plant flue gas. It is received by rail cars, conveyed to an enclosed dome where it is then conveyed to the plant for use in the FGD.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP17	Rail Car Transfer to Unloading Hopper	Dust Collector	Point
EP58	Conveyor LS1 Transfer to Storage Pile	Building Enclosure	Point
EP75A	Diverter Gate A or B Transfer to Day Bin A	Bin Vent Filter	Point
EP75B	Diverter Gate A or B Transfer to Day Bin B	Bin Vent Filter	Point
EP58P	Covered Limestone Pile	Building Enclosure, Dust Suppression Spray	Point
EP62	Limestone Inactive Storage Pile	Dust Suppression Spray	Fugitive

Hydrated Lime Receiving, Handling, Conveying, and Storage

Hydrated lime is a product used for the control of sulfuric acid mist in the power plant flue gas. It is received by truck and pumped directly into a storage silo.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP15A1	Unit 01 Hydrated Lime Silo A	Bin Vent Filter	Point
EP15A2	Unit 01 Hydrated Lime Silo B	Bin Vent Filter	Point
EP15A3	Unit 02 Hydrated Lime Silo A	Bin Vent Filter	Point
EP15A4	Unit 02 Hydrated Lime Silo B	Bin Vent Filter	Point

Powdered Activated Carbon Receiving, Handling, Conveying, and Storage

Powdered activated carbon (PAC) is a product used for the control of mercury in the power plant flue gas. It is received by truck and pumped directly into a storage silo.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP15B1	Unit 01 PAC Silo	Bin Vent Filter	Point
EP15B2	Unit 02 PAC Silo	Bin Vent Filter	Point

Quick Lime Receiving, Handling, Conveying, and Storage

Quick lime is a product used in the water treatment processes at the power plant. It is received by truck and pumped directly into a storage silo.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP138B	Quicklime Silo	Bin Vent Filter	Point

Soda Ash Receiving, Handling, Conveying, and Storage

Soda ash is a product used in the water treatment processes at the power plant. It is received by truck and pumped directly into a storage silo.

Power Plant			
Emission Unit	Description	Air Pollution Control Device Design	Source Type
EP138A	Soda Ash Silo	Bin Vent Filter	Point

Paved Roads and Parking Areas Subject to Regular Travel

Paved roads and parking areas serve the main offices, employee parking areas and operational areas at the power plant and mine. These are identified in Section VI facility maps.

The power plant contains approximately 5.2 miles of paved roads plus numerous paved open areas. The mine contains approximately 1.2 miles of paved roads plus other paved open areas. These are potential sources of fugitive PM emissions.

Unpaved Roads, Parking Areas and Other Open Areas Subject to Travel

Unpaved roads, parking areas, and other areas subject to vehicular travel may be sources of fugitive particulate matter due to driving. The power plant and mine have numerous unpaved roads, parking areas and other areas that are subject to travel on an irregular basis. These are identified in Section VI facility maps.

SECTION III
Power Plant Fugitive Emission Controls

Bulk Material Handling

Power Plant bulk material handling operations are depicted in process flow diagrams located in Section VI.

EP16B, Mine Conveyor 11 Transfer to Conveyor C1

This coal transfer is a belt-to-belt conveyor drop point between the mine Conveyor 11 and the power plant Conveyor C1. Mine Conveyor 11 is 48 inches wide; Conveyor C1 is 60 inches wide. The transfer point has a short-term design rate of 2,600 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor 11 breeching at the top and Conveyor C1 breeching at the bottom. Coal travels from Conveyor 11 into a chute equipped with water spray. The chute discharge opens onto Conveyor C1.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 8 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP49A, Conveyor C2 Transfer to Coal Pile B

This coal transfer is a belt-to-pile drop point from Conveyor C2 to coal Pile B, via concrete stack tube. The conveyor is 60 inches wide. The transfer point has a short-term design rate of 2,600 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor C2 breeching at the top and discharging into the top of the stack tube. Coal flows through the stack tube and exits through staggered openings onto Pile B. By design, the coal flows through the lowest openings that are as high as the pile; thus, material drop height is minimized.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 8 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP49B, Conveyor C2 Transfer to Conveyor C3

This coal transfer is a belt-to-belt drop point from Conveyor C2 to Conveyor C3. The conveyor belts are 60 inches wide. The transfer point has a short-term design rate of 2,600 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor C2 breeching at the top and discharging onto Conveyor C3, which serves coal Pile A. Coal flows from Conveyor C2 into a chute equipped with water spray. The chute discharge opens onto Conveyor C3.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 8 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP48, Conveyor C3 Transfer to Coal Pile A

This coal transfer is a belt-to-pile drop point from Conveyor C3 to coal Pile A, via concrete stack tube. The conveyor is 60 inches wide. The transfer point has a short-term design rate of 2,600 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor C3 breeching at the top and discharging into the top of the stack tube. Coal flows through the stack tube and exits through staggered openings onto Pile A. By design, the coal flows through the lowest openings that are as high as the pile; thus, material drop height is minimized.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 8 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP41B1, Coal Pile A/B Transfer to Stamler Feeder

This coal transfer is from Pile A/Pile B to the Stamler feeder. A dozer pushes coal from Pile A and Pile B onto the Stamler feeder, a ground operation. For this activity, limited potential for fugitive emission exists because the coal is not scooped up and dropped onto a conveyor, such as would occur with a front end loader. The transfer point has a short-term design rate of 2,000 tons per hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 8 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP41B2, Stamler Feeder Transfer to Conveyor C4A

This coal transfer is from the Stamler feeder, located on Pile A/B, to Conveyor C4A. The Stamler feeder has a 56-inch chute that discharges onto Conveyor C4A, which is a 60-inch belt. The transfer point has a short-term design rate of 2,000 tons per hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 3.5 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP40A, Active Coal Pile B

This coal pile receives material for short-term storage. The pile has a nominal diameter of 270 feet. Daily operation is typical.

Under everyday operating conditions, the inherent moisture content of the raw coal (about 11-13% is typical) provides very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP40B, Active Coal Pile A

This coal pile receives material for short-term storage. The pile has a nominal diameter of 270 feet. Daily operation is typical.

Under everyday operating conditions, the inherent moisture content of the raw coal (about 11-13% is typical) provides very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP40C, Long Term Coal Storage Pile

This coal pile receives material for long-term storage. The pile has a nominal diameter of 1,062 feet. Daily operation is typical.

Coal that is stored on an outdoor pile, without mechanical disturbance, tends to develop a material crust with minimal potential for fugitive particulate matter emission. Coal stored this way has the potential for wind-blown dust upon disturbance by a dozer. However, underneath the surface, the raw coal possesses inherent moisture content (about 11-13% is typical) that provides very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP62, Limestone Inactive Storage Pile

This limestone pile receives material for long-term storage. The pile has had limited use beginning in 2015, based on availability of EP58P, the covered limestone pile. The nominal design size of the Limestone Inactive Storage Pile is 223 feet in diameter.

Limestone is placed on this pile by dozer or loader. Stored material has the potential for wind-blown fugitive dust. Moisture applied by water truck is the primary means of controlling fugitive dust.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity.

The calculated control efficiency for the emission control technique is 99%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

Roadways, Parking Lots and Open Areas

Paved Roads and Parking Areas Subject to Regular Travel

Paved roads and parking areas serve the main offices, employee parking areas and operational areas at the power plant. These are identified in Section VI facility maps.

The power plant contains approximately 5.2 miles of paved roads plus numerous paved open areas totaling approximately 9.5 acres. These are potential sources of fugitive PM emissions.

Paved roads are generally 24 feet wide and were constructed of concrete or chip and seal. Traffic on these roads occurs daily with bulk material truck deliveries, whose volume is as described in the PSD permit application. Employee vehicle traffic occurs daily on the paved roads.

Primary fugitive emission control consists of a water truck that sprays the paved roads; and a vacuum sweeper truck that cleans the paved roads. A typical range of water application is 8,000 to 24,000 gallons per day on the paved road surfaces. One or both primary controls are deployed daily, unless ambient temperatures are below freezing and use of the water truck would create a safety hazard due to ice formation. Also, if precipitation has occurred (rain, snow, ice generally greater than 0.1", substantial fog, or persistent wet surface conditions) in the last 24 hours), fugitive emission control measures may not be employed.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

Unpaved Roads, Parking Areas and Other Open Areas Subject to Travel

Unpaved roads, parking areas, and other areas subject to vehicular travel may be sources of fugitive particulate matter. The power plant has unpaved roads, parking areas and other areas that are subject to travel on a temporary or irregular basis. In general, these unpaved surfaces do not have the potential to generate significant fugitive particulate matter emissions as they do not experience significant vehicle travel. These gravel surfaces are identified in Section VI facility maps.

Unpaved roads and open areas at the power plant are located where traffic occurs on a less than daily basis. They include:

- the raw water pond outer service road;
- cooling tower blowdown basin service road;
- recycle basin service road;
- warehouse lot;
- maintenance shop lot, outage contractor trailer lot;
- coal pile service road;
- water treatment plant yard;
- cooling tower service area/access road; and
- contractor/outage worker parking lot.

Unpaved roads and parking areas shall be treated by applying water to allow for effective control of fugitive dust emissions on an as needed basis. Effective control shall consist of applying water as many times as is needed to control fugitive visible emissions when the roads and parking areas are being actively used.

SECTION IV
Mine Fugitive Emission Controls

Bulk Material Handling

Mine bulk material handling operations are depicted in process flow diagrams located in Section VI.

EP104, Mine Conveyor 1 Transfer to Mine Conveyor 2

This coal transfer is a belt-to-belt conveyor drop point between the mine Conveyor 1 and Conveyor 2. The conveyors are 60 inches wide. The transfer point has a short-term design rate of 4,000 tons per hour; daily operation is typical. The transfer point is located inside housing. Coal travels from Conveyor 1 into a chute equipped with water spray. The chute discharge opens onto Conveyor 2.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required with water spray up to 1.2 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP118A, Mine Conveyor 2 Transfer to Surge Pile

This coal transfer is a belt-to-pile conveyor drop point from mine Conveyor 2 onto the coal Surge Pile. Mine Conveyor 2 is a radial stacker whose belt is 60 inches wide. The transfer point has a short-term design rate of 4,000 tons per hour; daily operation is typical. The radial stacker has adjustable height in order to minimize material drop distance.

Under everyday operating conditions, inherent moisture content of the raw coal (about 11-13% is typical) provides very effective control of fugitive PM emissions. Additional control may be applied by lowering the radial stacker discharge to its lowest height.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP105A and EP105B, Mine Conveyors 3 and 4 Transfer to Screening Facility

This coal transfer is a belt-to-belt conveyor drop point between the mine Conveyor 3/Conveyor 4 and the Screening Facility. Material that has been reclaimed from the Surge Pile on Conveyor 3/Conveyor 4 is processed in the Screening Facility. The transfer point is located inside the Breaker House, a building that fully encloses the equipment. Conveyors 3 and 4 are 48-inch belts. The transfer points each have a short-term design rate of 1,400 tons/hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 0.6 gallons per hour on each belt. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP105C, Screening Facility Transfer to Mine Conveyor 8

This material transfer occurs as coal drops from the sizing screen onto Conveyor 8. The conveyor is 48 inches wide. The transfer point has a short-term design rate of 2,400 tons per hour; daily operation is typical. The transfer point is located inside the Breaker House, a building that fully encloses the equipment.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 2 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP105D, Screening Facility Transfer to Rotary Breaker

Coal that does not pass through the screens (EP105C) is processed in the rotary breaker. This material passes into the rotary breaker through an enclosed chute. The transfer point has a short-term design rate of 500 tons per hour; daily operation is typical. The rotary breaker is located inside the Breaker House, as building that fully encloses the equipment.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 2.2 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP105E, Rotary Breaker Transfer to Mine Conveyor 7

Resized coal exits the rotary breaker and discharges onto mine Conveyor 7. The conveyor is a 48-inch belt. The transfer point has a short-term design rate of 500 tons per hour; daily

operation is typical. The transfer point is located inside the Breaker House, a building that fully encloses the equipment.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 2 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP105F, Rotary Breaker Transfer to Reject Conveyor 6

A fraction of the material that is processed in the rotary breaker does not reduce in size; generally this material consists of rock and/or clay, and is referred to as breaker reject material. This material is transferred onto Conveyor 6, a 48-inch belt. The transfer point is located inside the Breaker House, a building that fully encloses the equipment. The transfer point has a short-term design rate of 18 tons per hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP107A, Reject Conveyor 6 Transfer to Refuse Bin

This material transfer is a belt-to-bin drop point between Conveyor 6 and the Refuse Bin that receives breaker reject material. The transfer point is enclosed in housing and a chute that drops material into the bin. The transfer point has a short-term design rate of 18 tons per hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP107B, Refuse Bin Transfer to Truck

This material transfer is a bin loadout point from the Refuse Bin to haul trucks. The transfer point is partially enclosed in housing and has a loadout chute that drops material into the truck. The transfer point has a short-term design rate of 18 tons per hour; daily operation is typical.

Under everyday operating conditions, the building enclosure and inherent moisture content of the material (about 11-13% is typical) provide very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP102A, Mine Conveyor 7 Transfer to Pile 1

This coal transfer is a belt-to-pile drop point from Conveyor 7 to coal Pile 1, via concrete stack tube. The conveyor is 48 inches wide. The transfer point has a short-term design rate of 500 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor 7 breeching at the top and discharging into the top of the stack tube. Coal flows through the stack tube and exits through staggered openings onto Pile 1. By design, the coal flows through the lowest openings that are as high as the pile; thus, material drop height is minimized.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 15 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP102B, Mine Conveyor 8 Transfer to Pile 2

This coal transfer is a belt-to-pile drop point from Conveyor 8 to coal Pile 2, via concrete stack tube. The conveyor is 48 inches wide. The transfer point has a short-term design rate of 2,400 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor 8 breeching at the top and discharging into the top of the stack tube. Coal flows through the stack tube and exits through staggered openings onto Pile 2. By design, the coal flows through the lowest openings that are as high as the pile; thus, material drop height is minimized.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 15 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP102B, Mine Conveyor 8 Transfer to Mine Conveyor 9

Coal on Conveyor 8 may be diverted to Conveyor 9 instead of being transferred to Pile 2. For this belt-to-belt transfer point, Conveyors 8 and 9 are 48 inches wide. The transfer has a short-term design rate of 2,400 tons per hour; daily operation is typical. The transfer point is located inside housing.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 2.6 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 99.5%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP102C, Mine Conveyor 9 Transfer to Pile 3

This coal transfer is a belt-to-pile drop point from Conveyor 9 to coal Pile 3, via concrete stack tube. The conveyor is 48 inches wide. The transfer point has a short-term design rate of 2,400 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor 9 breeching at the top and discharging into the top of the stack tube. Coal flows through the stack tube and exits through staggered openings onto Pile 3. By design, the coal flows through the lowest openings that are as high as the pile; thus, material drop height is minimized.

Under everyday operating conditions, the building enclosure and inherent moisture content of the raw coal (about 11-13% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as needed with water spray up to 15 gallons per hour. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity (>20% per EPA Method 9).

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP118, Coal Surge Pile

This coal pile receives material for short-term storage. The pile has a nominal footprint of approximately 0.4 acre. Daily operation is typical.

Under everyday operating conditions, the inherent moisture content of the raw coal (about 11-13% is typical) provides very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

EP103A, EP103B, and EP103C, Coal Piles 1, 2 and 3

This grouped coal pile receives material for short-term storage. The pile has a nominal footprint of approximately 6 acres. Daily operation is typical.

Under everyday operating conditions, the inherent moisture content of the raw coal (about 11-13% is typical) provides very effective control of fugitive PM emissions.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

Roadways, Parking Lots and Open Areas

Paved Roads and Parking Areas Subject to Regular Travel

Paved roads and parking areas serve the main offices, employee parking areas and operational areas at the mine. These are identified in Section VI facility maps.

The mine contains approximately 1.2 mile of paved roads plus paved open areas totaling approximately 3.2 acres. These are potential sources of fugitive PM emissions.

Paved roads are generally 24 feet wide and were constructed of concrete or chip and seal. Traffic on these roads occurs daily with bulk material truck deliveries, whose volume is as described in the PSD permit application. Employee vehicle traffic occurs daily on the paved roads.

Primary fugitive emission control consists of a water truck that sprays the paved roads; and a vacuum sweeper truck that cleans the paved roads. A typical range of water application is 8,000 to 24,000 gallons per day on the paved road surfaces. One or both primary controls are deployed daily, unless ambient temperatures are below freezing and use of the water truck would create a safety hazard due to ice formation. Also, if precipitation has occurred (rain, snow, ice generally greater than 0.1", substantial fog, or persistent wet surface conditions) in the last 24 hours), fugitive emission control measures may not be employed.

A trigger for additional control would be a visual emission observation that indicated excessive levels of opacity.

The calculated control efficiency for the emission control technique is 90%, as provided by the PSD permit Best Available Control Technology (BACT) analysis performed.

Unpaved Roads, Parking Areas and Other Open Areas Subject to Travel

Unpaved roads, parking areas, and other areas subject to vehicular travel may be sources of fugitive particulate matter. The mine has unpaved roads and other areas that are subject to travel on a temporary or irregular basis. In general, these unpaved surfaces do not have the potential to generate significant fugitive particulate matter emissions as they do not experience significant vehicle travel. These surfaces are identified in Section VI facility maps.

Unpaved roads and parking areas at the mine are located where traffic occurs on a less than daily basis. They include:

- the mine service roads; and
- equipment laydown areas.

Unpaved roads and parking areas shall be treated by applying water to allow for effective control of fugitive dust emissions on an as needed basis. Effective control shall consist of applying water as many times as is needed to control fugitive visible emissions when the roads and parking areas are being actively used.

SECTION V
Plan Revision History

Plan Revisions

This operating program will be revised if fugitive particulate emissions from bulk material operations and roads and parking areas are not adequately controlled using the methods outlined in this document. Every effort has been made to design a plan which is accurate and comprehensive; however, revisions to this plan may be necessary to optimize operations and compliance. Revisions to this plan will be documented in the document revision log below. Significant amendments to the plan will be submitted to the IEPA within 30 days.

Document Revisions

Creation Date	Brief Description
July 12, 2013	New Document

Revision Date	Brief Description of Change
November 12, 2015	Removed Near Field emission sources as they are not part of the facility PSD permit emission sources. Updated plan to include practical material moisture emission controls. Removed references to activities that are not sources of particulate matter emissions. Removed discussion of point sources (non-fugitive sources) of PM emissions.
June 24, 2020	Changed facility contact information

SECTION VI
Reference Materials

Figure 1, Power Plant Coal Handling Process Flow

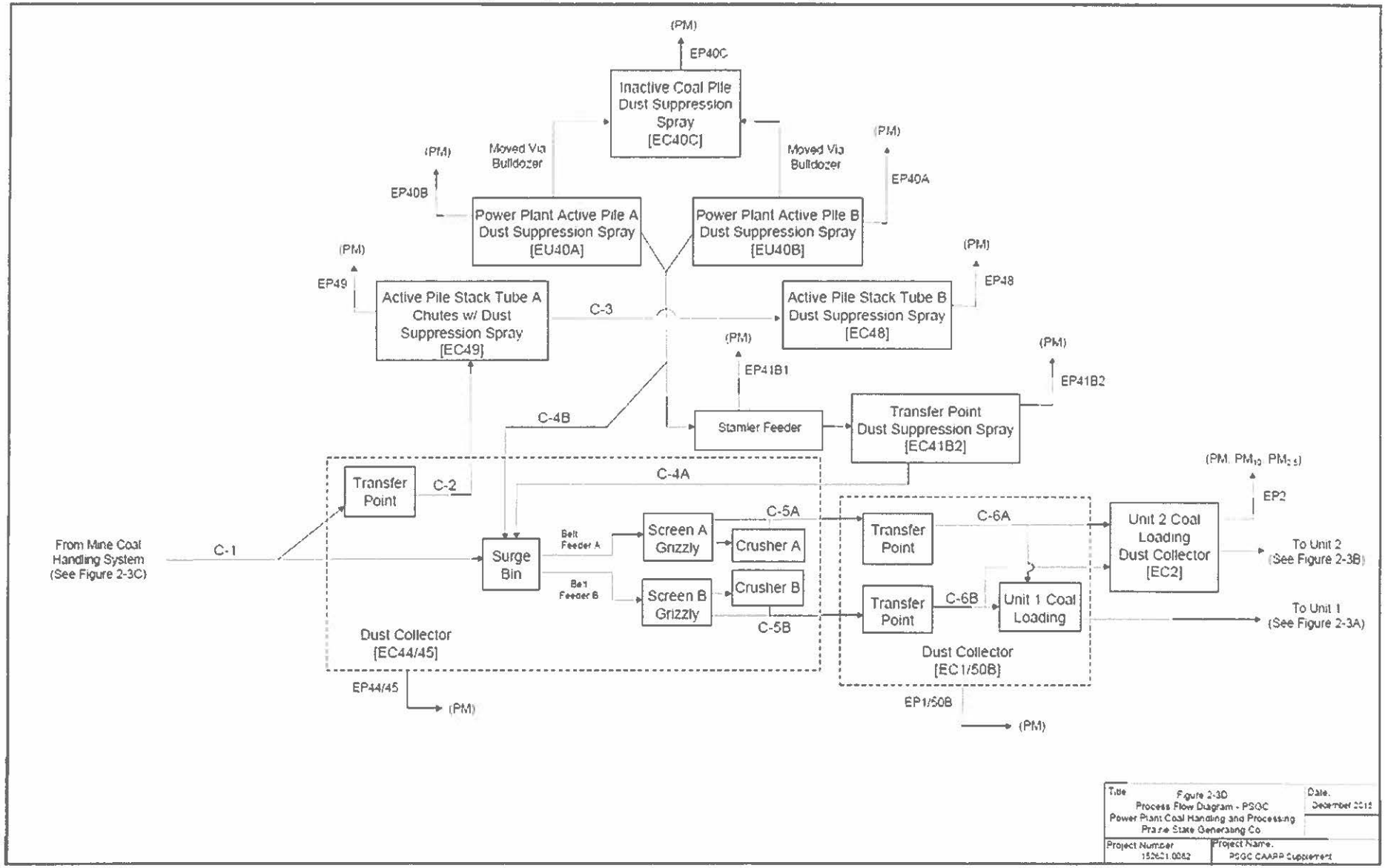

Figure 2, Mine Coal Handling Process Flow

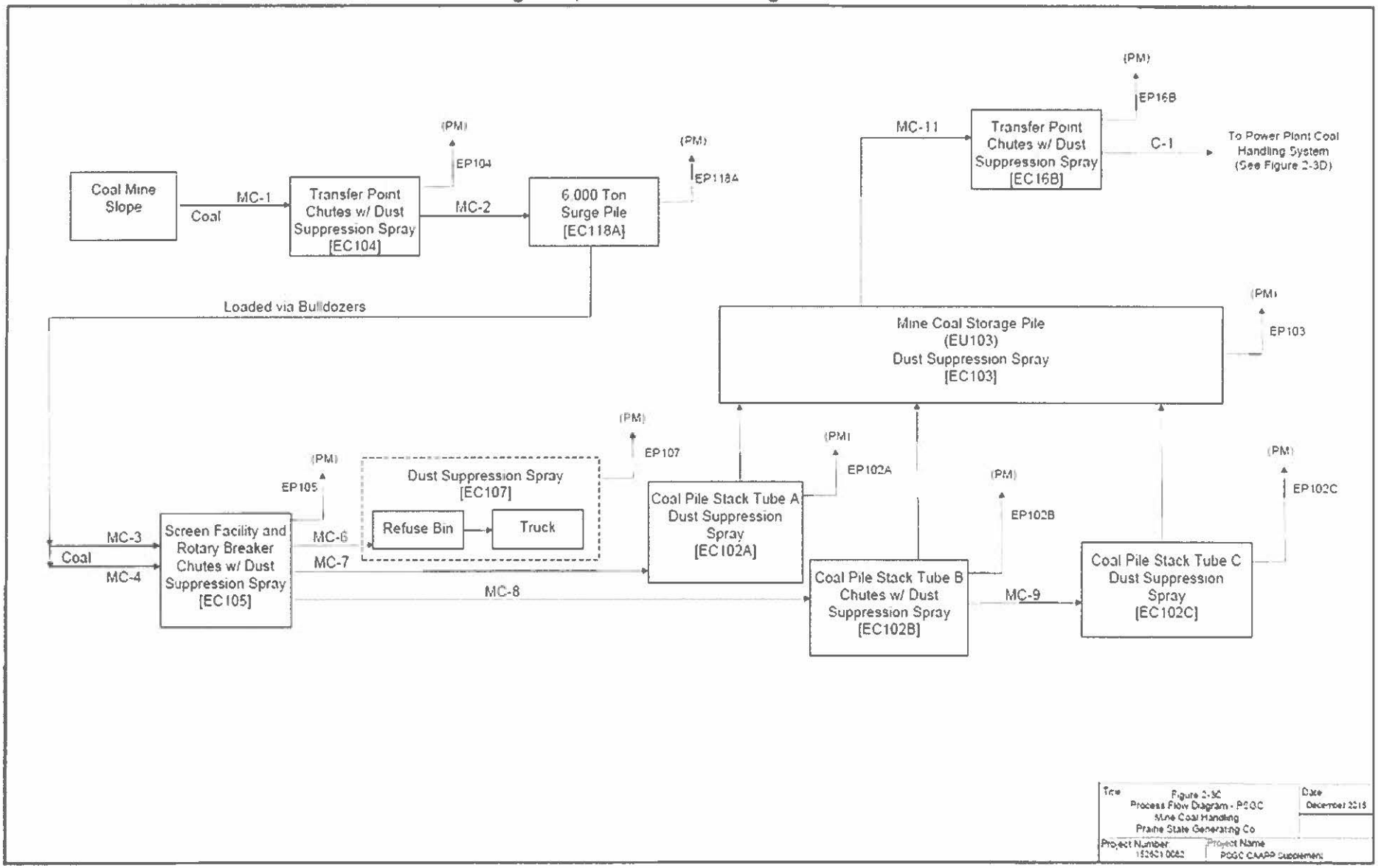

Figure 3, Power Plant Limestone Process Flow

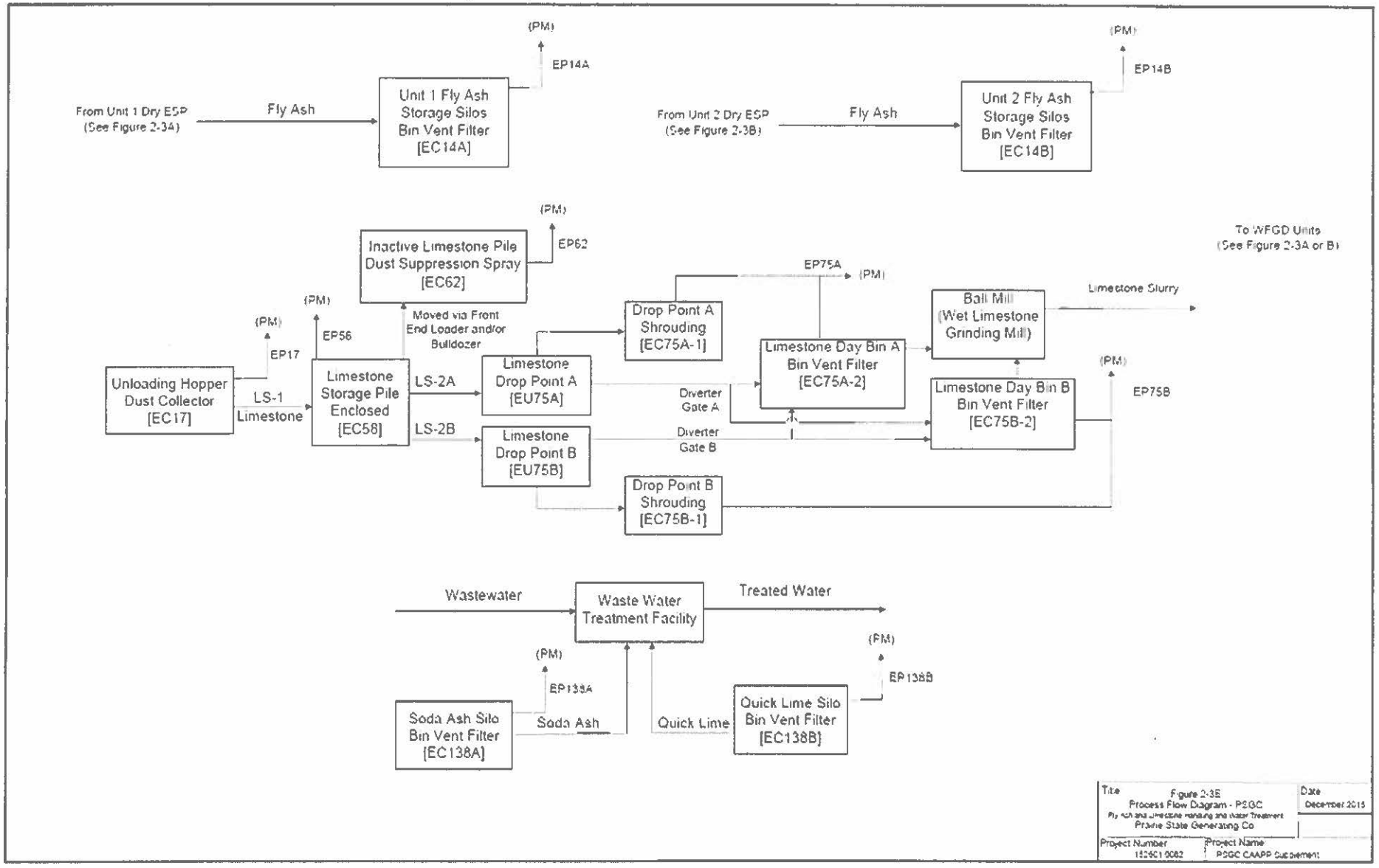

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Figure 4, Power Plant Unpaved Roads and Open Areas

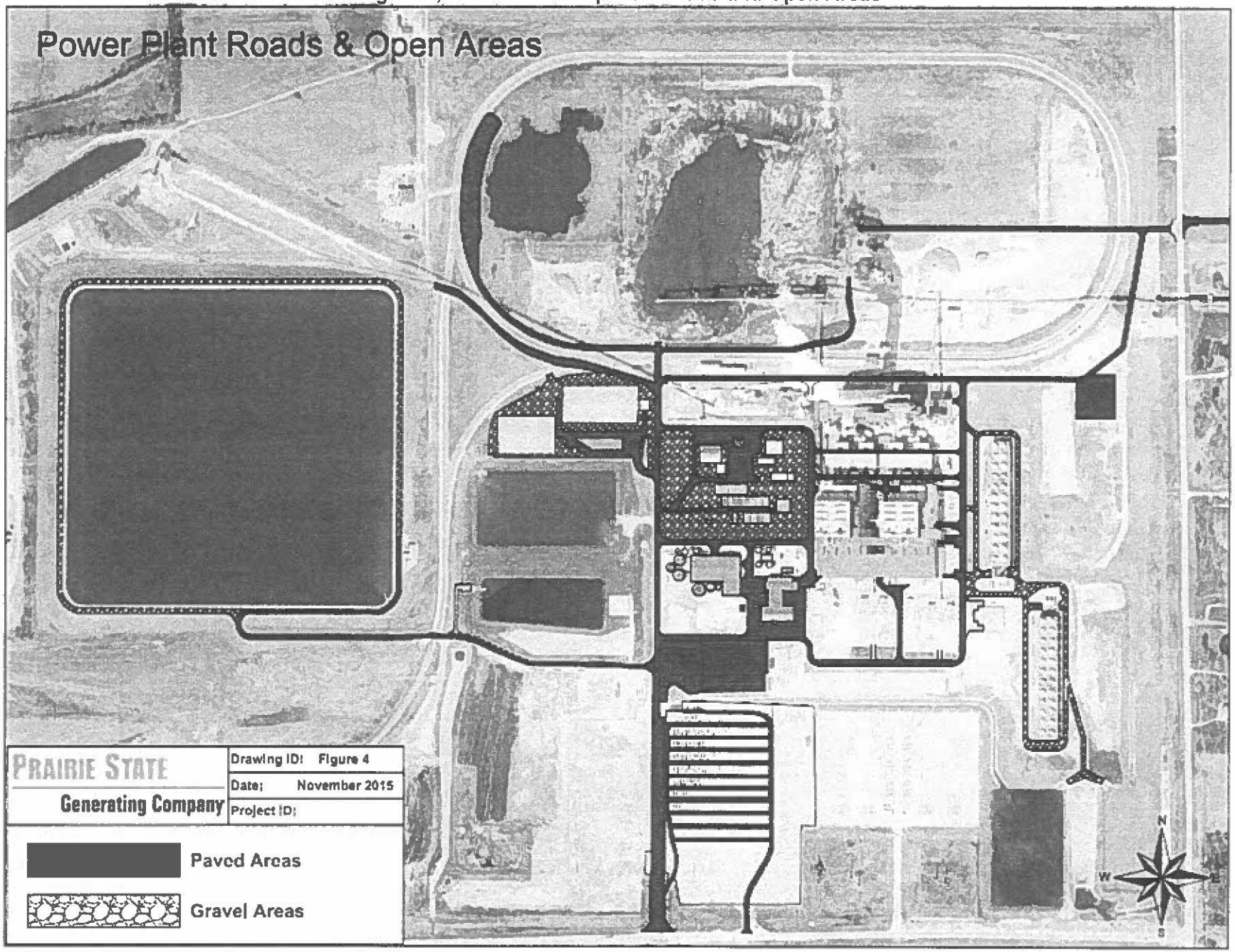
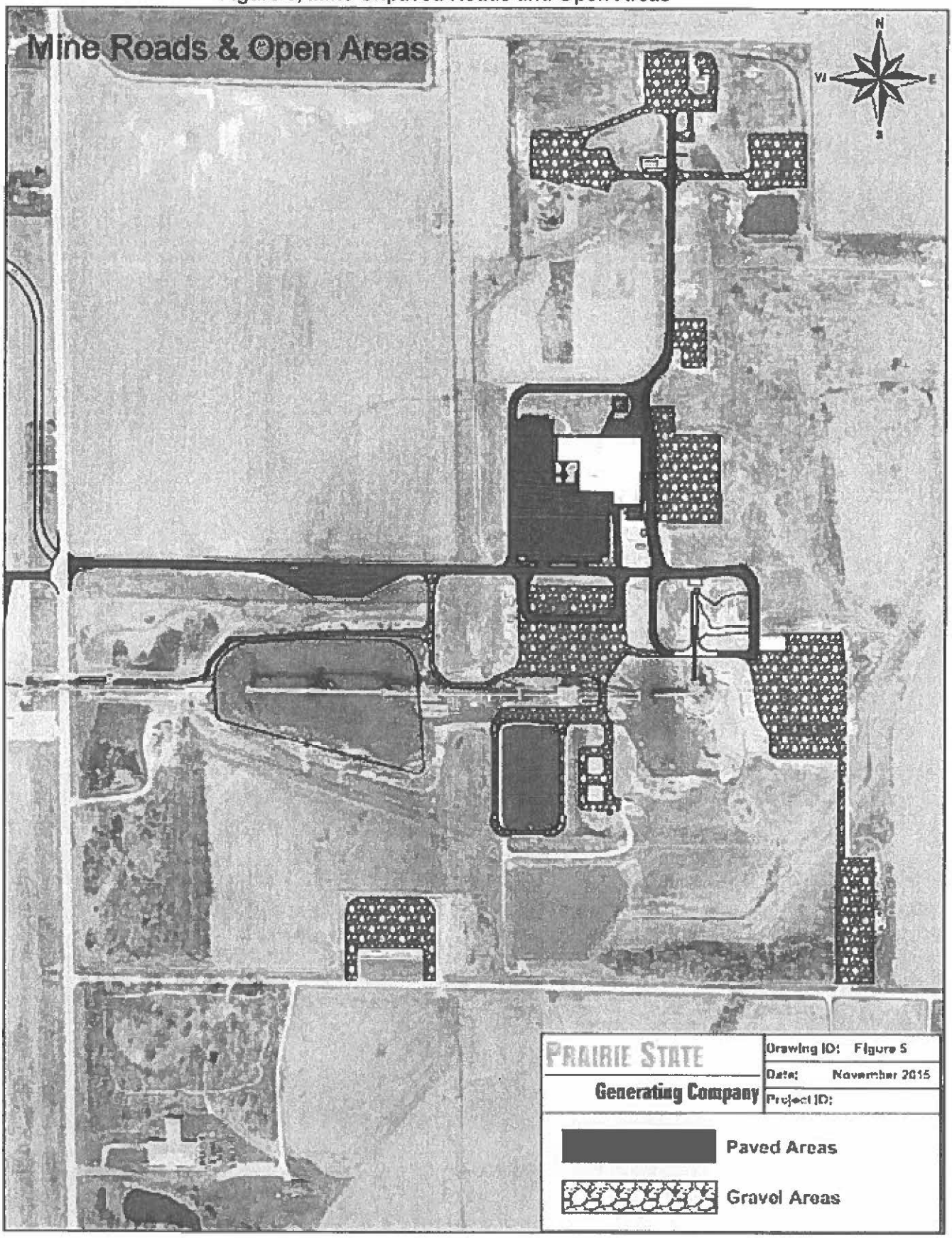
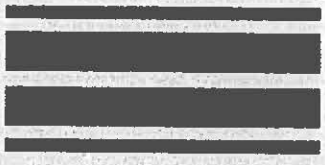


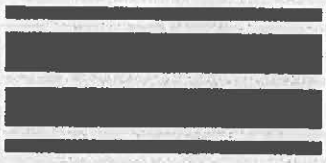
Figure 5, Mine Unpaved Roads and Open Areas



R1019







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FUGITIVE PARTICULATE MATTER EMISSION OPERATING PROGRAM

REVISION 2

6/24/2020

NEAR FIELD WASTE DISPOSAL FACILITY

MARISSA, IL

SECTION I
Plan Purpose and Structure

A. Purpose

The purpose of this Fugitive Particulate Matter Emission Control Plan is to establish a written operating program for the control of fugitive particulate matter emissions at the Near Field Waste Disposal Facility. The written operating program is required by the Prairie State Generating Company (PSGC) air pollution construction permit, issued by the Illinois Environmental Protection Agency on August 24, 2011. It establishes the use and operation of mandatory emission controls to minimize the generation and release of fugitive particulate matter. This written operating program herein is referred to as the "Plan".

The scope of this Plan includes material handling operations and facility haul roads, whose fugitive particulate matter emissions are required by the construction permit to be controlled. Material handling operations involve coal combustion residuals, breaker reject material and mine development material, water treatment filter cake, and cover materials at the working zone of the disposal area.

B. Structure

The Plan is divided into the following sections:

- Section I – Purpose and Structure
- Section II – General Plan Information
- Section III – Near Field Fugitive Emission Controls
- Section IV – Plan Revision History
- Section V – Reference Materials

SECTION II
General Plan Information

A. Facility Information

Facility Information

Facility Name: Near Field Waste Disposal Facility

Operator Name: Prairie State Generating Company, LLC

Facility Address:
765 New Marigold Rd., Marissa, IL 62257

Facility Environmental Contacts:
Director, Environmental Services: (618) 824-7655

B. Regulatory Background

Fugitive emissions are generally defined as those which cannot reasonably pass through a stack, chimney, vent, or other functionally equivalent opening. Title 35 of the Illinois Administrative Code, Subtitle A, Chapter 1, Part 211, defines fugitive particulate matter:

> Section 211.2490, Fugitive Particulate Matter
> "Fugitive particulate matter" means any particulate matter emitted into the atmosphere other than through a stack, provided that nothing in this definition or in 35 Ill. Adm. Code 212, Subpart K shall exempt any emission unit from compliance with other provisions of 35 Ill. Adm. Code 212 otherwise applicable merely because of the absence of a stack.

And a stack is defined:

> Section 211.6230, Stack
> "Stack" means a flue or conduit, free-standing or with exhaust port above the roof of the building on which it is mounted, by which air contaminants are emitted into the atmosphere.

Air Pollution Permit

This Plan is required to be developed by PSGC's Near Field facility air pollution construction permit, under Condition 4 that describes operating requirements for visible emission control.

The specific requirements of Condition 4.b, which mandates the Plan, are:

> b. The Permittee shall control PM emissions from activities at the affected facility with the potential for fugitive emissions, including handling of waste and cover materials at the working zone of the disposal area, wind erosion and the haul road (affected activities), in accordance with a written operating program, which program shall be kept current.
>
> > i. This program shall include a map or diagram indicating the location of affected activities accompanied by a general description of each activity, its extent, and the expected level of activity.

ii. This program shall include a detailed description of the emission control measures for each activity including: typical rate of water application, the use of any additives with concentration, the circumstances or frequency at which measures would be implemented, and circumstances in which the measures would not be implemented.

iii. This program shall include the intended level of control efficiency for PM and PM10 emissions achieved by the control measures, with supporting documentation.

C. Sources of Particulate Matter Emissions

Material Handling, Conveying, Hauling and Disposal

Coal combustion residuals (CCR), coal breaker reject material, mine development material, and water treatment filter cake are conveyed from the adjacent power plant and mine to the Near Field facility for placement in active disposal cells. Handling equipment (conveyors and stackers, loaders and dozers), and storage piles are employed. These activities are potential sources of fugitive emissions.

Emission Unit	Description	Air Pollution Control Device Design
EP1	CCR Conveyor 1 Transfer to Conveyor 2	Enclosure and Water Spray
EP2	CCR Conveyor 2 Transfer to Stacker	Enclosure and Water Spray
EP3	CCR Stacker Transfer to Stackout Area Pile	Water Spray
EP4	Raw Coal Reject Material (Breaker Material), Mine Development Material, and Water Treatment Filter Cake Truck Unloading to Stackout Area Pile	Water Spray
EP5	Soil Cap Excavation and Placement over Disposal Cell	Water Spray
EP6	Truck Haul Roads	Water Spray and/or Vacuum Sweeper Truck
EP7	CCR Conveyor 2 Transfer to Contingency Stacker	Enclosure and Water Spray
EP8	CCR Contingency Stacker Transfer to Contingency Stackout Area Pile	Water Spray
EP9	Loader Transfer from CCR Contingency Stackout Area Pile to Truck	Water Spray

Emission unit locations are mapped in Section V. A process flow diagram is provided as well.

SECTION III
Fugitive Emission Controls

EP1, CCR Conveyor 1 Transfer to Conveyor 2

This CCR transfer is a belt-to-belt conveyor drop point between Conveyor 1 and Conveyor 2. The transfer point has a design rate of 1,400 tons per hour; daily operation is typical. The transfer point is located inside housing with Conveyor 1 breeching at the top and Conveyor 2 breeching at the bottom. CCR travels from Conveyor 1 into a chute equipped with water spray. The chute discharges onto Conveyor 2.

Under everyday operating conditions, the building enclosure and inherent moisture content of the CCR (greater than 15% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 20 gallons per minute. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be observation of visible emissions as per inspection by EPA Method 9.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP2, Conveyor 2 Transfer to Stacker

This CCR transfer is a belt-to-belt conveyor drop point from Conveyor 2 to the Stacker belt. The transfer point has a design rate of 1,400 tons per hour; daily operation is typical. The transfer point is located inside belt housing with Conveyor 2 discharging into the top of an enclosed chute. CCR flows through the chute and discharges onto the Stacker belt.

Under everyday operating conditions, the belt enclosure and inherent moisture content of the CCR (greater than 15% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 40 gallons per minute. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be observation of visible emissions as per inspection by EPA Method 9.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP3, CCR Stacker Transfer to Stackout Area Pile

This CCR transfer is a belt-to-pile drop point from the Stacker belt to the Stackout Area Pile. The transfer point has a design rate of 1,400 tons per hour; daily operation is typical. The Stacker belt is located inside belt housing.

Under everyday operating conditions, the inherent moisture content of the CCR (greater than 15% is typical) provides very effective control of fugitive PM emissions. CCR that passes through this material transfer has a cumulative moisture content that includes the inherent moisture from material conditioning at the power plant or mine plus added moisture from upstream material handling water sprays.

A trigger for additional control on upstream material transfer points would be observation of visible emissions as per inspection by EPA Method 9.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP4, Raw Coal Reject Material (Breaker Material), Mine Development Material, and Water Treatment Filter Cake Truck Unloading to Stackout Area Pile

This transfer activity is truck unloading of breaker material, mine development material, and water treatment filter cake that arrives from the adjacent power plant and mine. The transfer activity has a permitted operating rate of 300,000 tons/month; daily operation is typical. Trucks unload these materials into the active disposal cell of the facility, minimizing the need for additional material handling and the potential for fugitive emissions.

Under everyday operating conditions, the inherent moisture content of the coal reject material and mine development material (about 11-13% is typical) provides very effective control of fugitive PM emissions. Water treatment filter cake contains a very high inherent moisture content (up to 50%) which also provides very effective control of fugitive PM emissions.

Water spray by truck may also be applied as additional emission control, on a per-load basis, in the event of significant visible emissions observed during inspections conducted per EPA Method 22.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP5, Soil Cap Excavation and Placement over Disposal Cell

This activity is a fugitive emission control measure by design. Soil is excavated at the Near Field facility for placement over filled disposal cells. The activity level for this operation is associated with filling of individual disposal cells; a soil cap will be placed once a cell is filled to capacity. The soil cap is graded and compacted in order to provide a solid surface over CCR, breaker reject material, mine development material, and water treatment filter cake. This cap minimizes the potential for fugitive particulate emissions by eliminating the disposed materials' exposure to air and wind currents.

During soil excavation and placement, up to four portable fogging machines may be used locally to provide ambient water mist that agglomerates fugitive PM emissions. Each portable fogging machine may apply up to 30 gallons of water per minute as fog. Water spray by truck may also be applied as additional emission control, in the event of significant visible emissions observed during inspections conducted per EPA Method 22.

EP6, Truck Haul Roads

The facility has a 2.28 mile haul road used for the purpose of transporting materials from the adjacent power plant and mine to the disposal cells. This road is paved for fugitive particulate emission control. The road is generally 24 feet wide and constructed of chip and seal.

Primary fugitive emission controls consist of a water truck that sprays the paved roads; and a vacuum sweeper truck that cleans the paved roads. One or both primary controls are deployed daily, unless ambient temperatures are below freezing and use of the water truck would create a

safety hazard due to ice formation. Also, if precipitation has occurred (rain, snow, ice generally greater than 0.1" or substantial fog in the last 24 hours), fugitive emission control measures may not be employed. A typical rate of water application on the haul roads is

A trigger for additional control would be a visual observation that indicated significant levels fugitive particulate emission, as per EPA Method 22.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP7, CCR Conveyor 2 Transfer to Contingency Stacker

This CCR transfer is a belt-to-belt conveyor drop point from Conveyor 2 to the Contingency Stacker belt. The transfer point has a design rate of 1,400 tons per hour; operation is limited to periods when the primary stacker is out of service. The transfer point is located inside belt housing with Conveyor 2 discharging into the top of an enclosed chute. CCR flows through the chute and discharges onto the Contingency Stacker belt.

Under normal operating conditions, the belt enclosure and inherent moisture content of the CCR (greater than 15% is typical) provide very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 20 gallons per minute. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be observation of visible emissions as per inspection by EPA Method 9.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP8, CCR Contingency Stacker Transfer to Contingency Stackout Area Pile

This CCR transfer is a belt-to-pile drop point from the Contingency Stacker belt to the Contingency Stackout Area Pile. The transfer point has a design rate of 1,400 tons per hour. The Contingency Stacker belt is located inside belt housing. The Stacker belt discharge is equipped with water spray.

Under everyday operating conditions, the inherent moisture content of the CCR (greater than 15% is typical) provides very effective control of fugitive PM emissions. Additional emission control may be provided as required, with water spray up to 40 gallons per minute. Water spray may not be implemented during freezing ambient temperatures.

A trigger for additional control would be observation of visible emissions as per inspection by EPA Method 9.

The calculated control efficiency for the emission control technique is 90%, as provided by the permit analysis performed.

EP9, Loader Transfer from CCR Contingency Stackout Area Pile to Truck

This material transfer is a loading operation whereby CCR is removed from the Contingency Stackout Area Pile and placed into trucks by front-end loader. The transfer point has a design rate of 1,400 tons per hour.

Under everyday operating conditions, the inherent moisture content of the CCR (greater than 15% is typical) provides very effective control of fugitive PM emissions. CCR that is reclaimed through this material transfer activity has a cumulative moisture content that includes the inherent moisture from material conditioning at the power plant or mine plus added moisture from upstream material handling water sprays.

A trigger for additional control on upstream material transfer points would be observation of visible emissions as per inspection by EPA Method 22.

SECTION IV
Plan Revision History

Plan Revisions

This operating program will be revised if fugitive particulate emissions from material operations and roads are not adequately controlled using the methods outlined in this document. Every effort has been made to design a plan which is accurate and comprehensive; however, revisions to this plan may be necessary to optimize operations and compliance. Revisions to this plan will be documented in the document revision log below.

Document Revisions

Creation Date	Brief Description
July 12, 2013	New Document

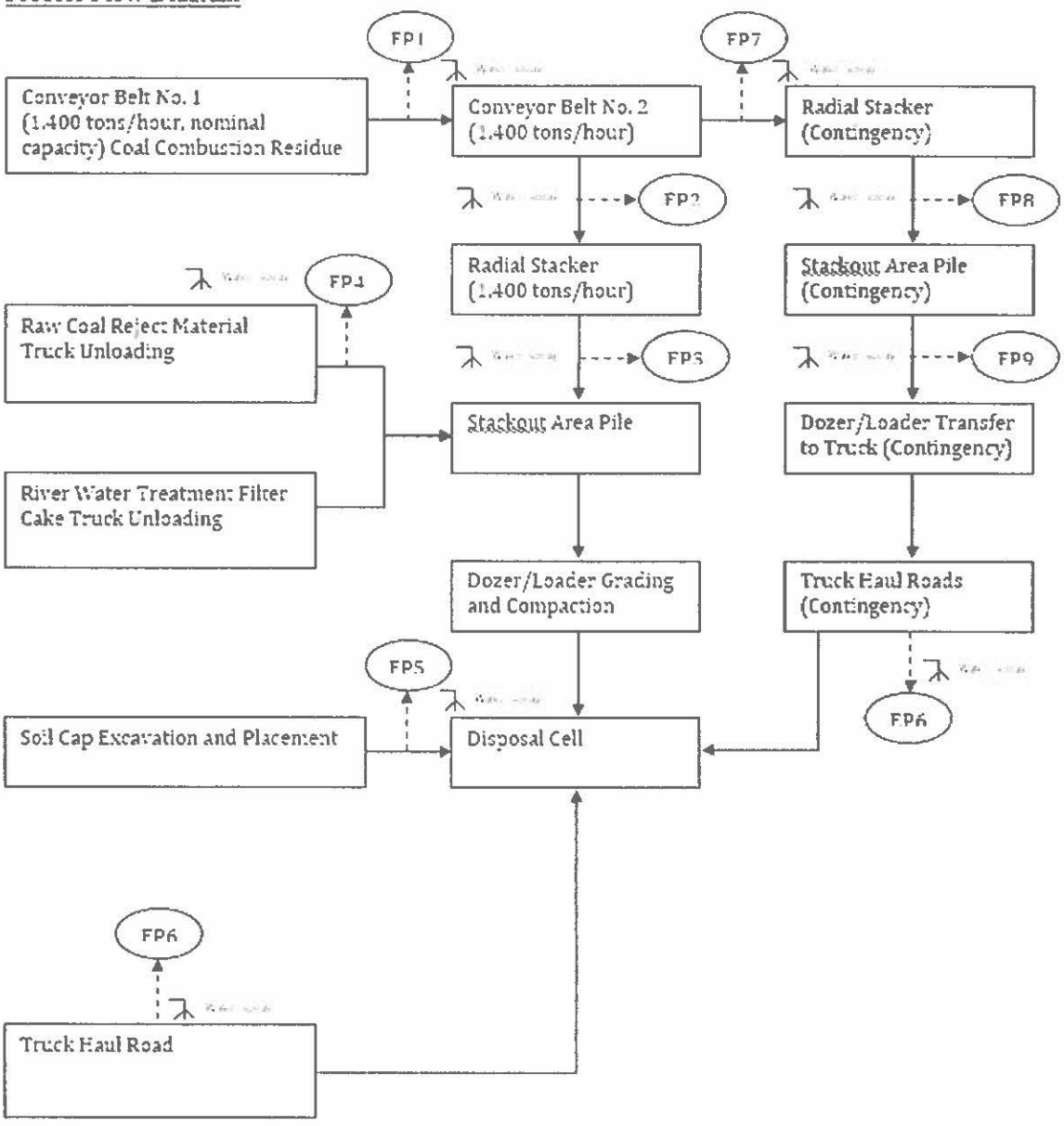
Revision Date	Brief Description of Change
November 12, 2015	Separate plan created whereby Near Field operating program is in an independent plan from Prairie State Generating Station. Also, the plan has been updated to include new emission sources authorized by the 9/30/15 construction permit revision.
June 24, 2020	Changed facility contact information. Added reference material documenting Breaker Haul Road 2015 revision

SECTION V
Reference Materials

Near Field Fugitive Sources

NF EP1, CCR Conveyor Transfer
NF EP2, CCR Conveyor Transfer
NF EP3, CCR Stacker Transfer
NF EP7, CCR Stacker Transfer
NF EP8, CCR Stackout Transfer
NF CCR Haul Roads
NF Breaker Reject Haul Road (added July 9, 2015)

Process Flow Diagram



R1031





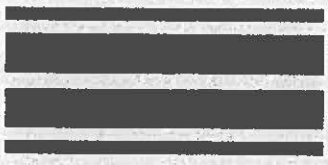


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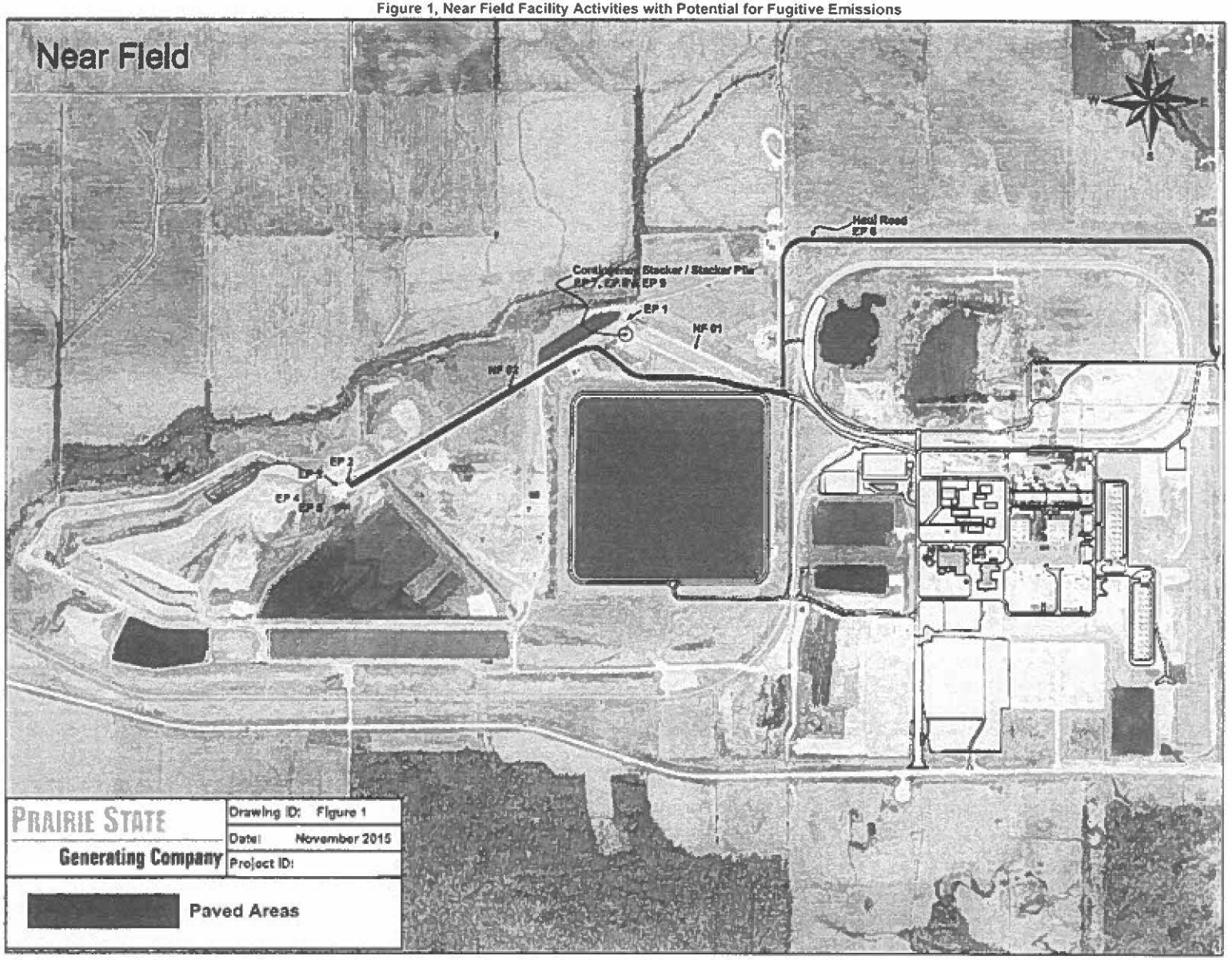
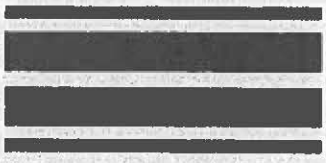
Figure 1, Near Field Facility Activities with Potential for Fugitive Emissions



R1033







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APPENDIX C: EPISODE ACTION PLAN

Illinois EPA FOIA Exemption Reference Sheet

Agency ID: 170000155542 Media File Type: AIR
Bureau ID: 189808AAB
Site Name: Prairie State Generating Station
Site Address1: 3872 County Hwy 12
Site Address2:
Site City: Marissa State: IL Zip: 62257-3434

This record has been determined to be partially or wholly exempt from public disclosure

Exemption Type:

Redaction

Exempt Doc #: 65 **Document Date:** 7 /27/2020 **Staff:** MDB

Document Description: SUPPLEMENT TO CAAPP APPLICATION (AIR POLLUTION EPISODE ACTION PLAN)

Category ID: 03M **Category Description:** AIR PERMIT - CONSTRUCTION/JOINT **Exempt Type:** Redaction
Permit ID: 10010033 **Date of Determination:** 1 /3 /2022

R1036

Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Air Pollution Episode Action Plan

Facility Name			Date
Prairie State Generating Station			6/24/2020
Facility Location - Street	City or Township		County
1739 New Marigold Road	Marissa		Washington
Mailing Address - Street or Box Number	City	State	ZIP
3872 County Highway 12	Marissa	IL	62257

	Person to be Notified During Episode	Title	Office Phone	Home Phone
1.	Randy Short	COO	(618) 824-7582	[redacted]
2.	James Andrew	Director, Environmental Services	(618) 824-7655	[redacted]
3.				

Facility Operations (Describe operations or products manufactured)
Electric power generating station

Description of Operations and/or Emission Sources for which an Action Plan is Required

Electricity is generated from two coal-fired boilers, Units 01 and 02. The boilers are rated individually at 7,450 million Btu/hour design heat input. The facility is a mine-mouth power plant that burns coal mined at the source. The sulfur content of coal mined at the facility is approximately 4 percent. The PSD permit for the facility dictates the only coal that may be burned in the boilers is coal mined at the facility, except during unforseen, extended interruptions in mine coal supply. Units 01 and 02 may be fired with natural gas during startup. Use of natural gas in the boilers is limited to unit startup and flame stabilization.

An auxiliary boiler is utilized to supply low-pressure steam on startup of Units 01 and 02. The auxiliary boiler is fired with natural gas and is rated at 245 million Bfu/hour design heat input. Its operation is limited by permit to 500 hours per year after the initial shakedown of Units 01 and 02, and an annual capacity factor of 10 percent.

The above-mentioned emission units constitute the most significant emission sources at the facility.

Division of Records Management
Releasable
JAN 03 2022
Reviewer: MDB

Remarks

Person to be Contacted for Further Information Regarding this Plan	Phone
James Andrew	(618) 824-7655

Signature: The undersigned hereby submits its episode action plan in accordance with 35 Ill. Adm. Code 244.141 amended April 19, 1975 and certifies that the statements contained herein are true and correct. This plan indicates emission reduction actions which will be taken in the event of an air pollution episode.

Owner of Facility	**Operator of Facility** (if other than owner)
Signature:	Signature: Randy Short
Printed Name:	Printed Name: Randy Short
Title:	Title: COO

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111½, Section 1010. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 and an additional civil penalty up to $1,000.00 for each day the failure continues, a fine up to $1,000.00 and imprisonment up to one year.

Name of Facility: Prairie State Generating Station

Episode Action Program

The actions listed below will be taken whenever episode stages and pollutants occur in the combinations indicated. (During product episodes, both S and P actions will be taken.)

Abbreviations Used

Episode Stages: Y = Yellow alert, R = Red alert, E = Emergency

Pollutants: O = Ozone, C = Carbon monoxide, N = Nitrogen dioxide, S = Sulfur dioxide, P = Particulate matter

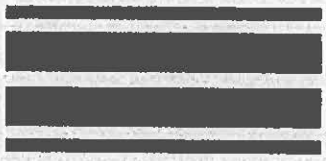
Stage	Pollutants	Actions Required of All Facilities
YRE	O	No refuse burning conducted.
Y	CNP	No refuse burning conducted other than in incinerators meeting Illinois emission standards (for applicable pollutant) and during hours of noon to 4 PM (or other hours as announced by Illinois EPA).
RE	O	No buildings heated to more than 65°F or air conditioned to less than 80°F (except as authorized by episode regulations). No fleet vehicles dispatched after declaration of alert and none operated on second and subsequent days of alert (except as authorized by episode regulations). No electricity used for decorative or advertising purposes. No gasoline or other volatile organic material in excess of 250 gallons loaded or received.
RE	CNP	No refused burning conducted.
E	NSP	No buildings heated to more than 65°F (except as authorized by episode regulations). No electricity used unnecessarily, such as for decorative, amusement, or advertising purposes.
E	OCNSP	No motor vehicles operated or manufacturing conducted (except as authorized by episode regulations). No facility or activity listed in emergency section of episode regulations operated.
Stage	Pollutants	Detailed Description of Additional Actions Required of this Facility (box will expand as you type)
Y	CNSP	Yellow Alert - PSGC is obligated by permit to reduce emissions to levels established by Best Available Control Technology. These post-combustion controls are more restrictive than emission levels that would be achieved using fossil fuels with less than 1.0% sulfur and low ash content. Additionally, alternative fuels are not available to the facility because the permit specifies only mine-mouth coal may be burned in Units 01 and 02. The permit requirements conflict with 35 IAC 244, Appendix D in this matter. Since PSGC is an independent power producer with no other generating stations, it cannot divert power generation to facilities outside the Alert area.
R	CNSP	Red Alert - PSGC will take all Yellow Alert actions.
E	CNSP	Emergency Alert - PSGC will take all Yellow Alert actions. The facility coal mine will discontinue mining operations for the duration of the alert.
Y	O	Yellow Alert - PSGC is obligated by permit to reduce emissions to levels established using Best Available Control Technology. Adhering to the permit will reduce emissions to the greatest extent practicable.
R	O	Red Alert - PSGC will take all Yellow Alert actions. Since the company is an independent power producer and does not own/operate electric distribution systems, it has no "economy sales" or "interruptable customers". PSGC does not purchase power from other producers.
E	O	Emergency Alert - PSGC will take all Yellow Alert Actions. The facility coal mine will discontinue operations for the duration of the alert. As an independent power producer, PSGC does not operate distribution systems that can reduce voltage by 2.5% system-wide. Similarly, the company cannot purchase power or request customers to reduce electric demand.

Add a Row | Delete a Row

APPENDIX D: UPDATED LIST OF EMISSION UNITS

R1039





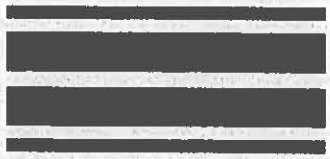


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Table 1-1. LIST OF ACTIVITIES

Sources	Emission Unit Unique Identifier	Pollution Control Unique Identifier	Emission Vent/Stack Unique Identifier	Material Used or Transferred	Type of Emissions	Insignificant Rule Exemption
Fuel Combustion Sources						
Boiler 1 - Coal	EU01A	EC01A-1,2,3,4,5,6,7	EP01A	Coal	PM,SO_2,NO_x, CO,VOM,LEAD,H_2SO_4 Mist,Hg, HAP	
Boiler 2 - Coal	EU01B	EC01B-1,2,3,4,5,6,7	EP01B	Coal	PM,SO_2,NO_x, CO,VOM,LEAD,H_2SO_4 Mist,Hg, HAP	
Auxiliary Boiler - Natural Gas - 250 MMBtu/hr	EU02			Natural Gas	PM,SO_2,NO_x,CO,VOM,HAP	
Emergency Fire Pump Diesel Engine - 420 Hp	EU26A		EP26A	Diesel	PM,SO_2,NO_x,CO,VOM,LEAD,HAP	20.210(a)(1)(i)
Diesel Emergency Backup Generator - 1,356 Hp	EU26C		EP26C	Diesel	PM,SO_2,NO_x,CO,VOM,LEAD,HAP	20.210(a)(1)(i)
Liquid Propane Emergency Backup Generator	EP16G		EP16G	Liquified Petroleum	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(1)(i)
Direct Combustion Comfort Heating Units	EH3		EH3	Natural Gas	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Liquid Propane/Natural Gas Make-Up Heater	EP16A		EP16A	Liquified Petroleum/Natural Gas	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Liquid Propane/Natural Gas Make-Up Heater	EP16B		EP16B	Liquified Petroleum/Natural Gas	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Fuel Oil Forced Air Heaters	EH3		EH3	Fuel Oil	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Fuel Oil Forced Air Heaters	EH3		EH3	Fuel Oil	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Dual Fired Industrial Heaters	EH3		EH3	Natural Gas	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Kerosene Forced Air Heaters	EH3		EH3	Kerosene	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Fuel Oil Direct Fired Heaters	EH3		EH3	Fuel Oil	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(4)
Portable Diesel Pumps	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Portable Gasoline Generators	EH3		EH3	Gasoline	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Portable Diesel Compressor	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Portable Mine Generator	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Diesel Welder - 40 hp	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
LP Backup Generator - 20 hp	EH3		EH3	Liquified Petroleum	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Diesel Pumps	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Gas Pumps	EH3		EH3	Gasoline	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Emergency Mine Generator - 26 hp	EH3		EH3	Diesel	PM,SO_2,NO_x,CO,VOM,HAP	20.210(a)(15)
Cooling Towers						
Cooling Tower 1 (Cells A through N)	CT01		CT01		PM	
Cooling Tower 2 (Cells A through N)	CT02		CT02		PM	
Coal Handling Systems						
Transfer Point (Coal/recycle coal to MC-1 or MC-2)	EP108	EC108	EP108	Coal	PM	
Transfer Point (Coal/recycle coal to MC-3 or MC-4)	EP109	EC109	EP109	Coal	PM	
Transfer Point (Conveyor Belt MC-3 to Screening Facility, MC-4 to Screening Facility, Screening Facility to MC-5, Screening Facility to Rotary Breaker, Rotary Breaker to MC-7, and Rotary Breaker to Reject C-6)	EU105	EC105	EP105	Coal and Reject Coal	PM	
Transfer Point (Conveyor Belt MC-5 to Silo or Reject Coal Bin to Truck)	EU107	EC106	EP107	Reject Coal	PM	
Transfer Point (Coal/recycle coal to MC-6 or MC-7)	EU102A	EC102A	EP102A	Coal	PM	
Transfer Point (Coal/recycle coal to MC-8 or MC-9)	EU102B	EC102B	EP102B	Coal	PM	
Transfer Point (Conveyor Belt MC-8 to 30,000 Ton Silo)	EU102C	EC102C	EP102C	Coal	PM	
Transfer Point (Conveyor Belt MC-9 to 30,000 Ton Silo)	EU102D	EC102D	EP102D	Coal	PM	
Transfer Point (Conveyor Belt MC-10 to MC-11, MC-12)	EU103	EC103	EP103	Coal	PM	
Transfer Point (Conveyor Belt C-10 to MC-13)	EU104/05	EC104/05	EP104/05	Coal	PM	
Transfer Point (Conveyor Belt MC-14 to C-11 or C-12)	EU49	EC49	EP49	Coal	PM	
Transfer Point (Conveyor Belt C-11 to C-13)	EU48	EC48	EP48	Coal	PM	
Transfer Point (Conveyor Belt C-12 to C-13)	EU47/48	EC47/48	EP47/48	Coal	PM	
Transfer Point (Conveyor Belt C-13 to Surge Bin, Surge Bin to Belt Feeder A, Surge Bin to Belt Feeder B, Belt Feeder A to Screen A, Belt Feeder B to Screen B, Screen A to Crusher, Crusher to Crusher C, Screen A to C-28, Screen B to C-28, Crusher to C-9 and Crusher B to C-28)	EU44/45/46	EC44/45/46	EP44/45/46	Coal	PM	
Transfer Point (Conveyor Belt C-14 to C-15, C-16 to C-15, C-15 to C-17, C-17 to Bin 4)	EU43/50	EC43/50	EP43/50	Coal	PM	
Transfer Point (Conveyor Belt C-18 to C-19)	EU51	EC51	EP51	Coal	PM	
Transfer Point (Conveyor Belt C-19 to Bin 5)	EU52	EC52	EP52	Coal	PM	
Transfer Point (Conveyor Belt C-20 to Bin 6, Bin 6 to Bin 7, Bin 7 to Bin 8, Bin 8 to Bin 9, Bin 9 to Bin 10, Bin 10 to Bin 11, Bin 11 to Bin 12, Bin 12 to Bin 13, Bin 13 to Bin

Sources	Emission Unit Unique Identifier	Pollution Control Unique Identifier	Emission Vent/Stack Unique Identifier	Material Used or Transferred	Type of Emissions	Insignificant Rule Exemption
Coal Processing						
Crusher 1	EU4045	EC4045	EP4045	Coal	PM	
Crusher 2	EU4045	EC4045	EP4045	Coal	PM	
Limestone Handling Systems						
[illegible]	EU58A	EC58A	EP58A	Limestone	PM	
[illegible]	EU58B	EC58B	EP58B	Limestone	PM	
[illegible]	EU57	EC57	EP57	Limestone	PM	
[illegible]	EU58	EC58	EP58	Limestone	PM	
PAC and HL Silos						
[illegible]	EU58A	EC58A	EP58A	Hydrated Lime	PM	
Powder Activated Carbon Silos	EU58B	EC58B	EP58B	Powder Activated Carbon	PM	
Water Treatment Chemicals						
Soda Ash Silo	EU38A	EC38A	EP38A	Soda Ash	PM	20.2.210(b)(16)(A)
Quick Lime Silo	EU38B	EC38B	EP38B	Lime	PM	20.2.210(b)(16)(A)
Ash Storage Silos						
Unit 1 to Unit 1 Fly Ash Storage Silos	EU14A	EC14A	EP14A	Fly Ash	PM	
Unit 2 to Unit 2 Fly Ash Storage Silos	EU14B	EC14B	EP14B	Fly Ash	PM	
Storage Tanks						
Unleaded Gasoline (1,000 Gal)	LG-1A		LG-1A	Gasoline	VOM	20.2.210(a)(10)
#1 Diesel (1,500 Gal)	LG-1B		LG-1B	#1 Diesel	VOM	20.2.210(a)(11)
#2 Diesel (2,500 Gal)	LG-2		LG-2	#2 Diesel	VOM	20.2.210(a)(11)
Hydraulic Oil (10,000 Gal)	LG-3		LG-3	Hydraulic Oil	VOM	20.2.210(a)(11)
Gear Oil (8,000 Gal)	LG-4		LG-4	Gear Oil	VOM	20.2.210(a)(11)
New Motor Oil (300 Gal)	LG-5		LG-5	New Motor Oil	VOM	20.2.210(a)(11)
Used Oil (250 Gal)	LG-6		LG-6	Used Oil	VOM	20.2.210(a)(10)
Used Oil (550 Gal)	LG-7		LG-7	Used Oil	VOM	20.2.210(a)(10)
Automatic Transmission Fluid (150 Gal)	LG-8		LG-8	Automatic Transmission Fluid	VOM	20.2.210(a)(11)
Antifreeze (150 Gal)	LG-9		LG-9	Antifreeze	VOM	20.2.210(a)(11)
T/S Power Fluid (550 Gal)	LG-10		LG-10	T/S Power Fluid	VOM	20.2.210(a)(11)
Liquid Petroleum Gas (6 - 1,000 Gal Tanks)	LG-11		LG-11	Liquid Petroleum Gas	VOM	20.2.210(b)(15)
Used Oil (1,100 Gal)	LG-12		LG-12	Used Oil	VOM	20.2.210(a)(10)
#2 Diesel (550 Gal) [Emergency Fire Pump Diesel Engine]	ST001		ST001	#2 Diesel	VOM	20.2.210(a)(11)
#2 Diesel (10,839 Gal) [Diesel Emergency Backup Generator]	ST002		ST002	#2 Diesel	VOM	20.2.210(a)(11)
#2 Diesel (2,500 Gal)	ST003		ST003	#2 Diesel	VOM	20.2.210(a)(11)
#1 Diesel (1,500 Gal)	ST004a		ST004a	#1 Diesel	VOM	20.2.210(a)(11)
Unleaded Gasoline (1,000 Gal)	ST004b		ST004b	Gasoline	VOM	20.2.210(a)(10)
Diesel Fuel (1,000 Gal)	ST008		ST008	Diesel	VOM	20.2.210(a)(11)
Diesel Fuel (1,000 Gal)	ST009		ST009	Diesel	VOM	20.2.210(a)(11)
Used Oil (550 Gal)	ST010		ST010	Oil	VOM	20.2.210(a)(10)
Used Oil (550 Gal)	ST011		ST011	Oil	VOM	20.2.210(a)(10)
Used Oil (550 Gal)	ST012		ST012	Oil	VOM	20.2.210(a)(10)
Temporary Liquid Petroleum Gas (1,000 Gal)	ST013		ST013	Liquid Petroleum Gas	VOM	20.2.210(b)(15)
#2 Diesel (12,000 Gal)	ST201		ST201	#2 Diesel	VOM	20.2.210(a)(11)
Unleaded Gasoline (500 Gal)	ST202a		ST202a	Gasoline	VOM	20.2.210(a)(10)
#1 Diesel (1,000 Gal)	ST202b		ST202b	#1 Diesel	VOM	20.2.210(a)(11)
Fugitive Sources						
Haul Roads						
Unit Composite Haul Roads	TRUCK_HAUL			Various Bulk Materials	PM	
Landfill Haul Roads	TRUCK_LANDFILL			Mine Waste and Breaker Reject Material	PM	
CCR Haul Roads	TRUCK_CCR			Fly Ash, Bottom Ash, and Gypsum	PM	
Material Storage						
Active Coal Pile A	EU40A	EC40A	EP40A	Coal	PM	
Active Coal Pile B	EU40B	EC40B	EP40B	Coal	PM	
Inactive Coal Pile	EU40C	EC40C	EP40C	Coal	PM	
Covered Limestone Pile	EU58?	EC58	EP58	Limestone	PM	
Inactive Limestone Pile	EUc2	ECo2	EPo2	Limestone	PM	
Coal Storage Pile A	EU103A	EC103A	EP103A	Coal	PM	
Coal Storage Pile B	EU103B	EC103B	EP103B	Coal	PM	
Coal Storage Pile C	EU103C	EC103C	EP103C	Coal	PM	
Coal Saree Pile	EU11b	EC11b	EP11b	Coal	PM	
Unit 1 Emergency Loadout Pile	EU154	Partial Enclosure Material Moisture	EP154	Bottom Ash	Zero Emission Source	20.2.210(a)(2) or 20.2.210(a)(3)
Unit 2 Emergency Loadout Pile	EU155	Partial Enclosure Material Moisture	EP155	Bottom Ash	Zero Emission Source	20.2.210(a)(2) or 20.2.210(a)(3)

R1041

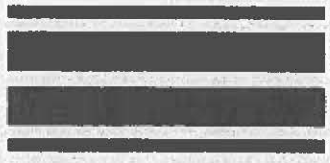
Sources	Emission Unit Unique Identifier	Pollution Control Unique Identifier	Emission Vent/Stack Unique Identifier	Material Used or Transferred	Type of Emissions	Insignificant Rule Exemption
European CCS Stockpile	[illegible]	Material Moisture	[illegible]	CCR	PM	[illegible]
Loaders/Dozers						
[illegible]	[illegible]		[illegible]	[illegible]	PM	
[illegible]	[illegible]		[illegible]	Coal, Limestone	PM	

R1042

R1043







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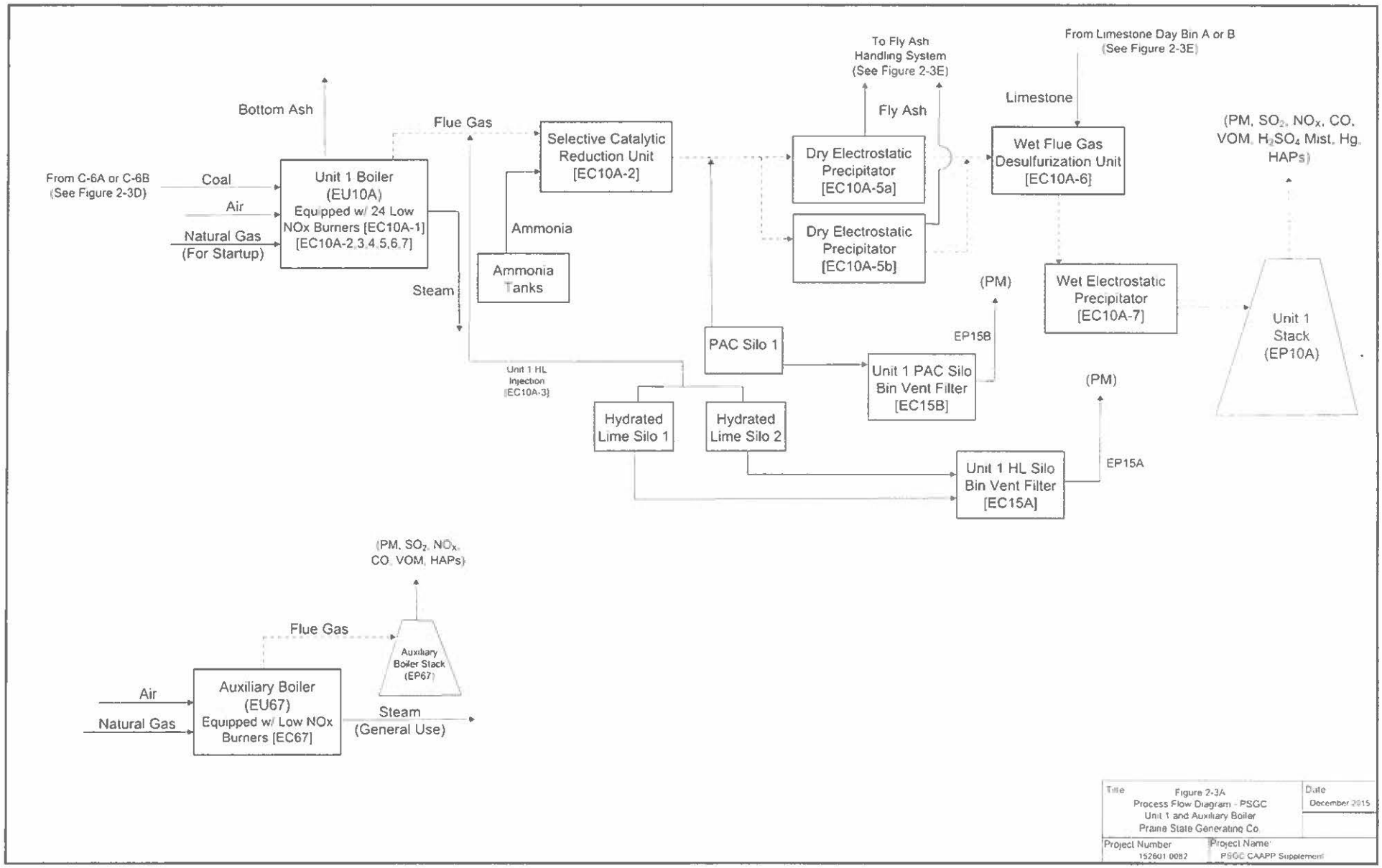
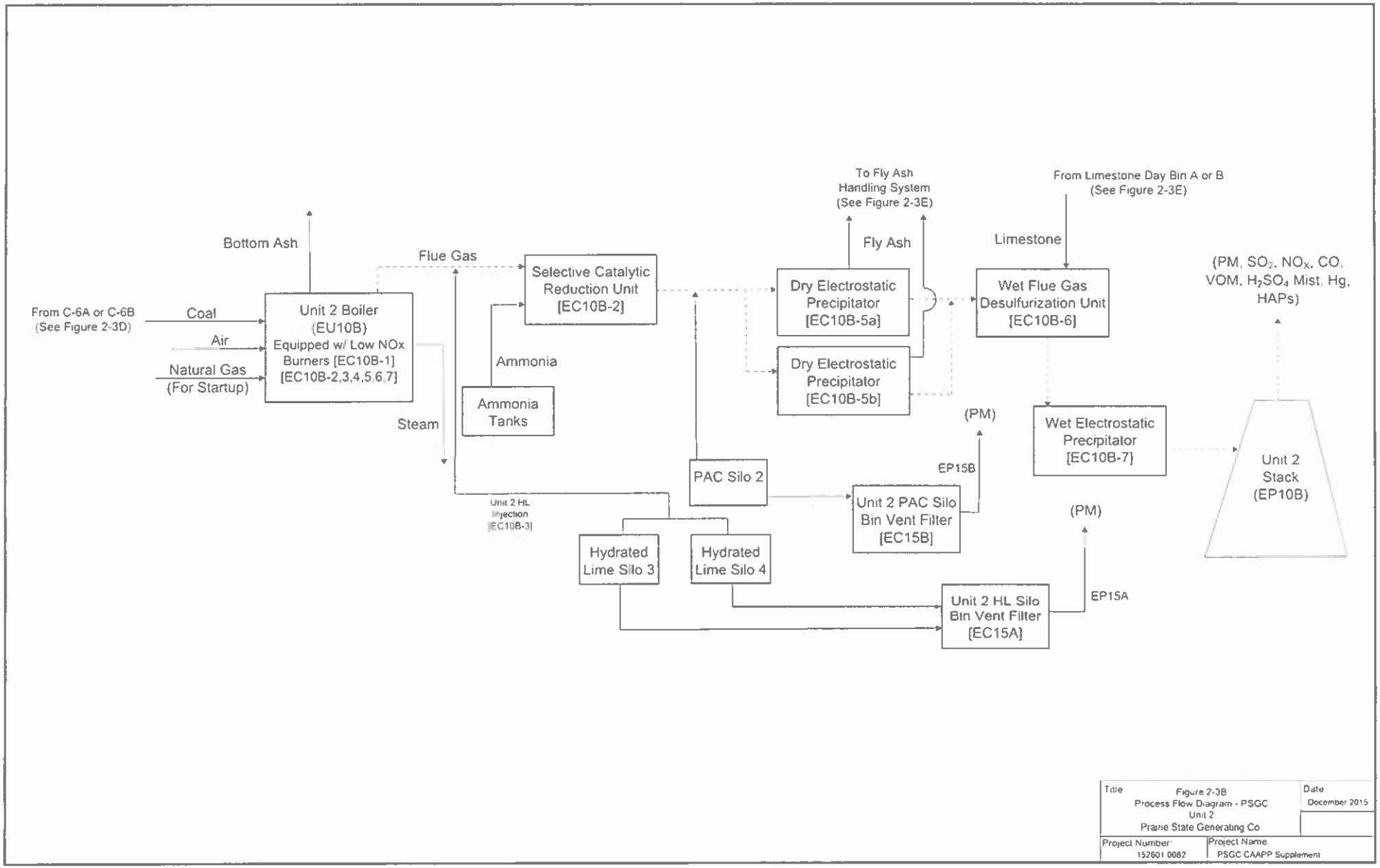
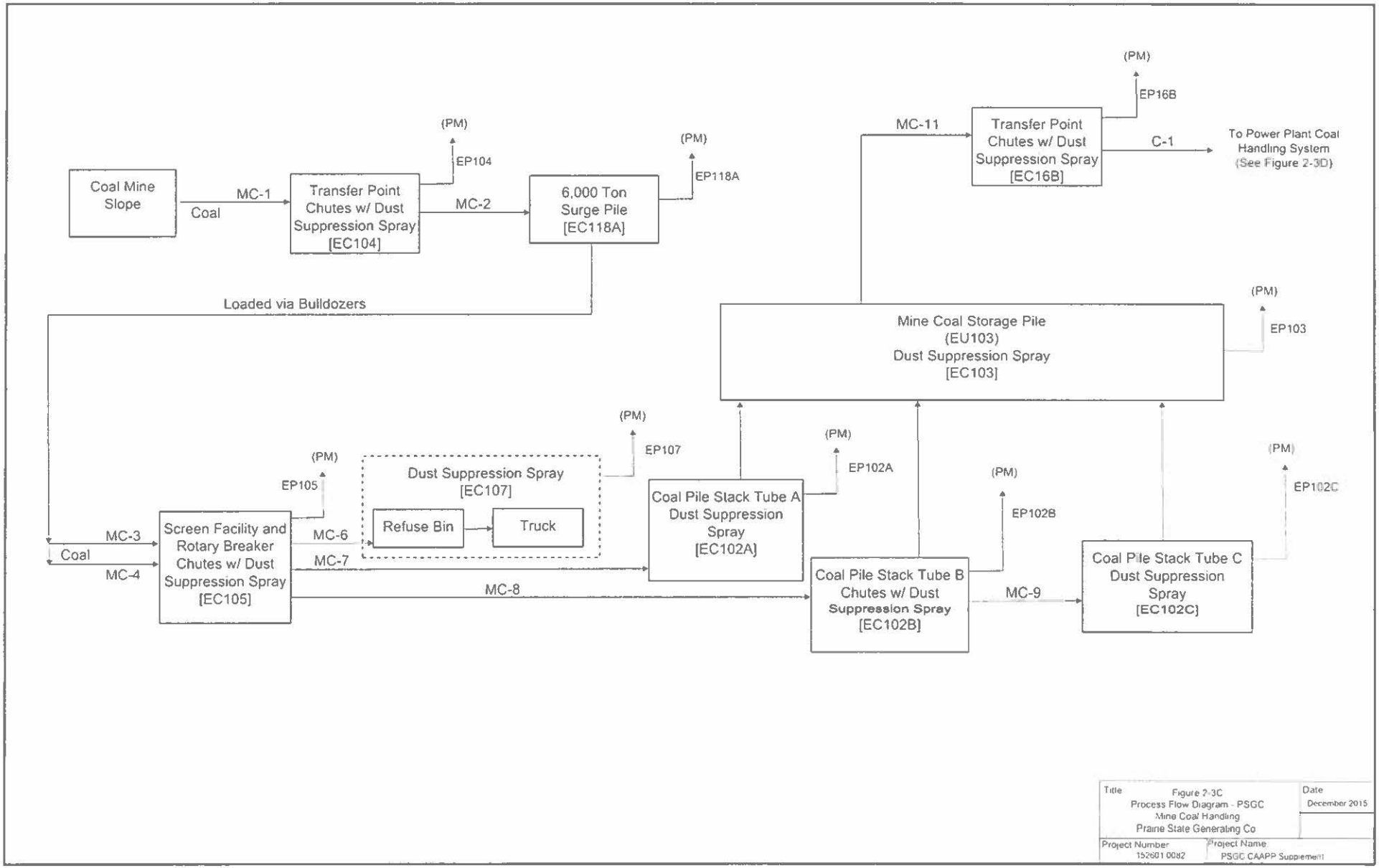
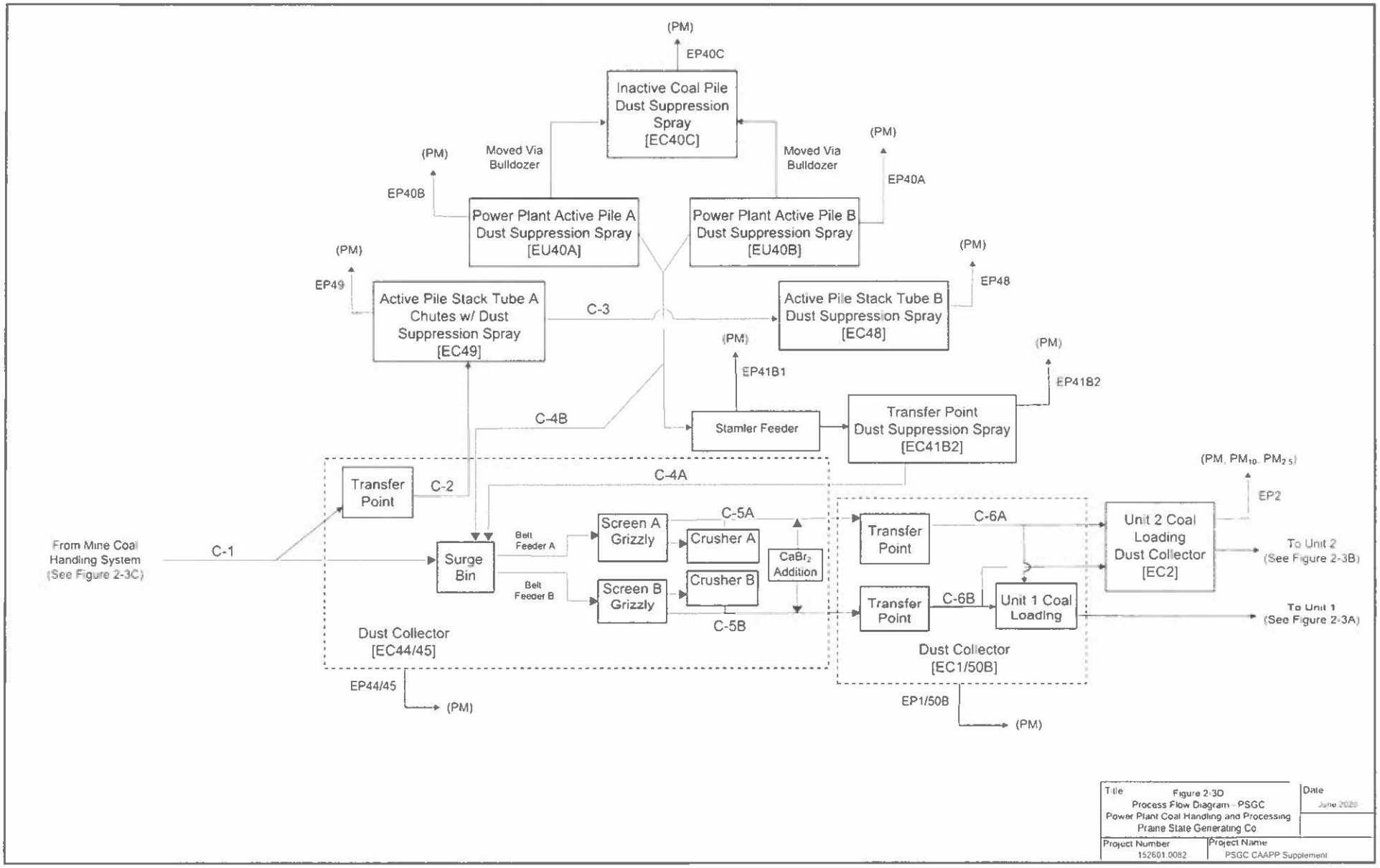
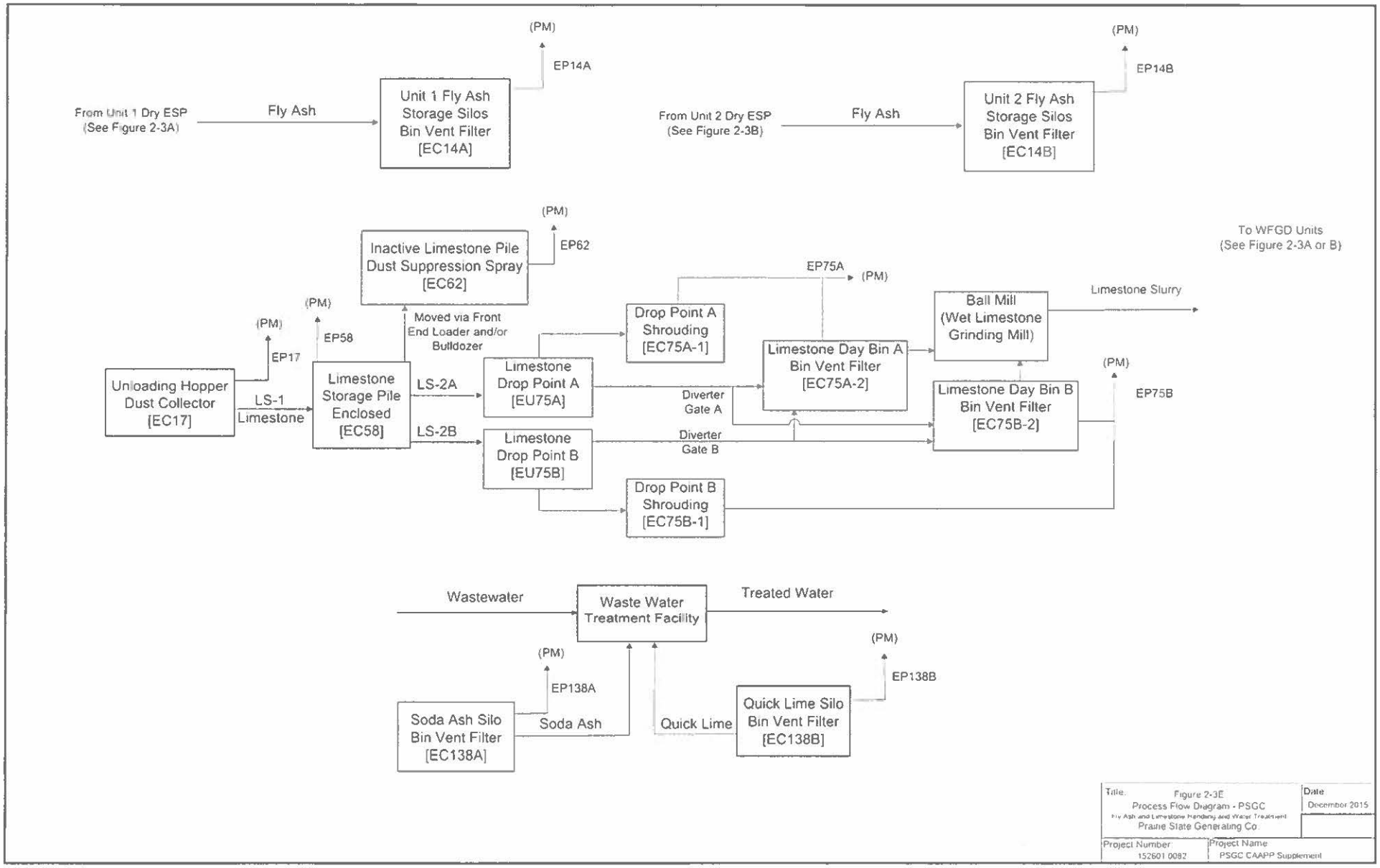
APPENDIX E: REVISED PROCESS FLOW DIAGRAMS


From C-6A or C-6B
(See Figure 2-3D)
Coal
Air
Natural Gas
(For Startup)
Unit 1 Boiler
(EU10A)
Equipped w/ 24 Low
NOx Burners [EC10A-1]
[EC10A-2,3,4,5,6,7]
Bottom Ash
Flue Gas
Steam
Ammonia
Ammonia
Tanks
Selective Catalytic
Reduction Unit
[EC10A-2]
To Fly Ash
Handling System
(See Figure 2-3E)
Fly Ash
Dry Electrostatic
Precipitator
[EC10A-5a]
Dry Electrostatic
Precipitator
[EC10A-5b]
From Limestone Day Bin A or B
(See Figure 2-3E)
Limestone
Wet Flue Gas
Desulfurization Unit
[EC10A-6]
(PM, SO2, NOx, CO,
VOM, H2SO4 Mist, Hg,
HAPs)
Wet Electrostatic
Precipitator
[EC10A-7]
Unit 1
Stack
(EP10A)
(PM)
EP15B
PAC Silo 1
Unit 1 HL
Injection
[EC10A-3]
Unit 1 PAC Silo
Bin Vent Filter
[EC15B]
Hydrated
Lime Silo 1
Hydrated
Lime Silo 2
(PM)
EP15A
Unit 1 HL Silo
Bin Vent Filter
[EC15A]
(PM, SO2, NOx,
CO, VOM, HAPs)
Flue Gas
Auxiliary
Boiler Stack
(EP67)
Air
Natural Gas
Auxiliary Boiler
(EU67)
Equipped w/ Low NOx
Burners [EC67]
Steam
(General Use)
Title
Figure 2-3A
Process Flow Diagram - PSGC
Unit 1 and Auxiliary Boiler
Prairie State Generating Co.
Date
December 2015
Project Number
152601 0082
Project Name
PSGC CAAPP Supplement


From C-6A or C-6B
(See Figure 2-3D)
Coal
Air
Natural Gas
(For Startup)
Unit 2 Boiler
(EU10B)
Equipped w/ Low NOx
Burners [EC10B-1]
[EC10B-2,3,4,5,6,7]
Bottom Ash
Flue Gas
Steam
Selective Catalytic
Reduction Unit
[EC10B-2]
Ammonia
Ammonia
Tanks
Unit 2 HL
Injection
[EC10B-3]
To Fly Ash
Handling System
(See Figure 2-3E)
Fly Ash
Dry Electrostatic
Precipitator
[EC10B-5a]
Dry Electrostatic
Precipitator
[EC10B-5b]
From Limestone Day Bin A or B
(See Figure 2-3E)
Limestone
Wet Flue Gas
Desulfurization Unit
[EC10B-6]
(PM, SO_2, NO_X, CO,
VOM, H_2SO_4 Mist, Hg,
HAPs)
Wet Electrostatic
Precipitator
[EC10B-7]
Unit 2
Stack
(EP10B)
(PM)
EP15B
PAC Silo 2
Unit 2 PAC Silo
Bin Vent Filter
[EC15B]
Hydrated
Lime Silo 3
Hydrated
Lime Silo 4
(PM)
EP15A
Unit 2 HL Silo
Bin Vent Filter
[EC15A]
Title
Figure 2-3B
Process Flow Diagram - PSGC
Unit 2
Prairie State Generating Co
Date
December 2015
Project Number
152601 0082
Project Name
PSGC CAAPP Supplement


Coal Mine Slope
MC-1
Coal
Transfer Point Chutes w/ Dust Suppression Spray [EC104]
(PM)
EP104
MC-2
6,000 Ton Surge Pile [EC118A]
(PM)
EP118A
Loaded via Bulldozers
MC-11
Transfer Point Chutes w/ Dust Suppression Spray [EC16B]
(PM)
EP16B
C-1
To Power Plant Coal Handling System (See Figure 2-3D)
Mine Coal Storage Pile (EU103) Dust Suppression Spray [EC103]
(PM)
EP103
MC-3
Coal
MC-4
Screen Facility and Rotary Breaker Chutes w/ Dust Suppression Spray [EC105]
(PM)
EP105
MC-6
MC-7
MC-8
Dust Suppression Spray [EC107]
Refuse Bin
Truck
(PM)
EP107
Coal Pile Stack Tube A Dust Suppression Spray [EC102A]
(PM)
EP102A
Coal Pile Stack Tube B Chutes w/ Dust Suppression Spray [EC102B]
(PM)
EP102B
MC-9
Coal Pile Stack Tube C Dust Suppression Spray [EC102C]
(PM)
EP102C
Title
Figure 2-3C
Process Flow Diagram - PSGC
Mine Coal Handling
Prairie State Generating Co
Date
December 2015
Project Number
152601.0082
Project Name
PSGC CAAPP Supplement

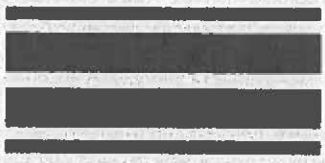

(PM)
EP40C
Inactive Coal Pile Dust Suppression Spray [EC40C]
Moved Via Bulldozer
Moved Via Bulldozer
(PM)
EP40B
(PM)
EP40A
Power Plant Active Pile A Dust Suppression Spray [EU40A]
Power Plant Active Pile B Dust Suppression Spray [EU40B]
(PM)
EP49
(PM)
EP48
Active Pile Stack Tube A Chutes w/ Dust Suppression Spray [EC49]
C-3
Active Pile Stack Tube B Dust Suppression Spray [EC48]
(PM)
EP41B1
(PM)
EP41B2
C-4B
Stamler Feeder
Transfer Point Dust Suppression Spray [EC41B2]
(PM, PM10, PM2.5)
EP2
Transfer Point
C-2
C-4A
C-5A
Screen A Grizzly
Crusher A
Transfer Point
C-6A
Unit 2 Coal Loading Dust Collector [EC2]
To Unit 2 (See Figure 2-3B)
From Mine Coal Handling System (See Figure 2-3C)
C-1
Surge Bin
Belt Feeder A
Belt Feeder B
CaBr2 Addition
Screen B Grizzly
Crusher B
Transfer Point
C-6B
Unit 1 Coal Loading
To Unit 1 (See Figure 2-3A)
C-5B
Dust Collector [EC44/45]
Dust Collector [EC1/50B]
EP44/45
(PM)
EP1/50B
(PM)
Title
Figure 2-3D
Process Flow Diagram - PSGC
Power Plant Coal Handling and Processing
Prairie State Generating Co
Date
June 2020
Project Number
152601.0082
Project Name
PSGC CAAPP Supplement

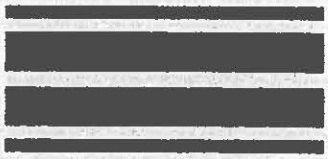

From Unit 1 Dry ESP
(See Figure 2-3A)
Fly Ash
Unit 1 Fly Ash Storage Silos Bin Vent Filter [EC14A]
(PM)
EP14A
From Unit 2 Dry ESP
(See Figure 2-3B)
Fly Ash
Unit 2 Fly Ash Storage Silos Bin Vent Filter [EC14B]
(PM)
EP14B
Inactive Limestone Pile Dust Suppression Spray [EC62]
(PM)
EP62
To WFGD Units
(See Figure 2-3A or B)
(PM)
EP58
(PM)
EP17
Moved via Front End Loader and/or Bulldozer
Unloading Hopper Dust Collector [EC17]
LS-1
Limestone
Limestone Storage Pile Enclosed [EC58]
LS-2A
LS-2B
Limestone Drop Point A [EU75A]
Limestone Drop Point B [EU75B]
Drop Point A Shrouding [EC75A-1]
Drop Point B Shrouding [EC75B-1]
EP75A
(PM)
Limestone Day Bin A Bin Vent Filter [EC75A-2]
Limestone Day Bin B Bin Vent Filter [EC75B-2]
Diverter Gate A
Diverter Gate B
Ball Mill (Wet Limestone Grinding Mill)
Limestone Slurry
(PM)
EP75B
Wastewater
Waste Water Treatment Facility
Treated Water
(PM)
EP138A
Soda Ash Silo Bin Vent Filter [EC138A]
Soda Ash
Quick Lime
Quick Lime Silo Bin Vent Filter [EC138B]
(PM)
EP138B
Title: Figure 2-3E
Process Flow Diagram - PSGC
Fly Ash and Limestone Handling and Water Treatment
Prairie State Generating Co.
Date: December 2015
Project Number: 152601 0082
Project Name: PSGC CAAPP Supplement

APPENDIX F: UPDATED PROPERTY MAP

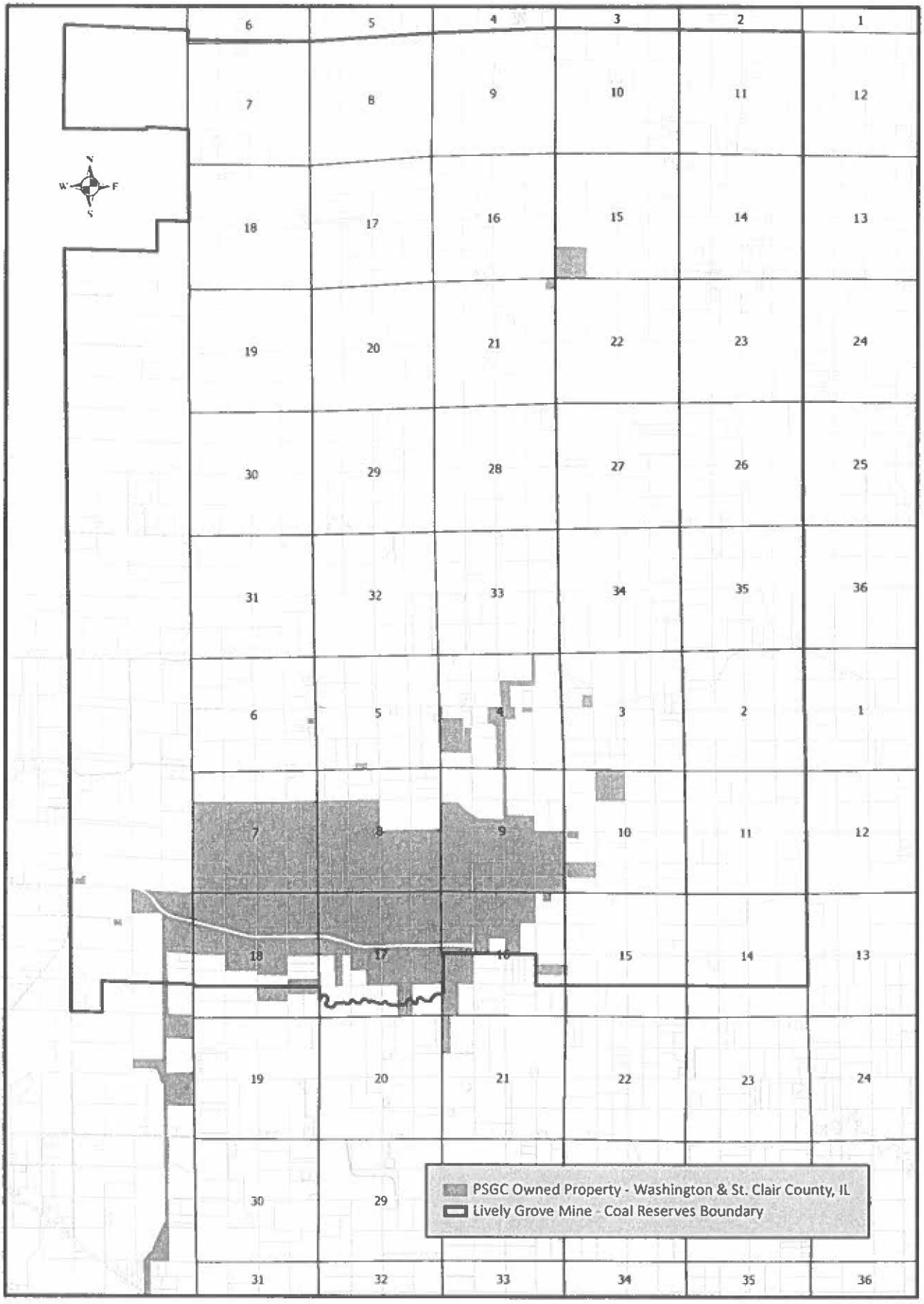
R1051







Kodak
Color Patch Card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22
23
24
30
29
28
27
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31
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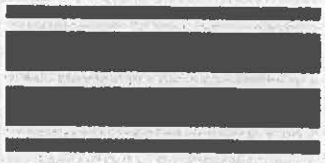
36
N
W
E
S
PSGC Owned Property - Washington & St. Clair County, IL
Lively Grove Mine - Coal Reserves Boundary
Updated: June 2020 by PSGC
0 0.25 0.5 1 1.5 2
Miles

R1053







Kodak
Color Patch Card

DOCUMENT 13

189808AAB
10010033
R1055

PRAIRIE STATE

Generating Company

PRAIRIE STATE GENERATING COMPANY, LLC
3872 County Highway 12
Marissa, IL 62257

April 1, 2021

Mr. Michael Reed
Illinois Environmental Protection Agency
Division of Air Pollution Control
1021 N. Grand Ave. East
Springfield, IL 62794-9276

Re: Acid Rain Permit and NOx Compliance Plan Renewal Application, ORIS ID: 55856
Facility ID: 189808AAB

Dear Mr. Reed:

Enclosed please find the renewal Acid Rain permit application and Phase II NOx Compliance Plan for Prairie State Generating Station, ORIS 55856, operated by Prairie State Generating Company, LLC. The renewal application is being submitted pursuant to 40 CFR 72, §72.30(c).

Prior to this submittal, Prairie State Generating Company, LLC submitted an Acid Rain permit and NOx Compliance Plan renewal application on June 27, 2016.

Should you have questions about this application, please contact James Andrew 618-824-7655.

Sincerely,

Randy Short

Randy Short
Chief Operating Officer

RECEIVED
STATE OF ILLINOIS
APR 06 2021
ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF AIR

Enclosures: EPA Form 7610-16, EPA Form 7610-28

Cc: U.S. Environmental Protection Agency
1201 Constitution Ave., NW
7th Floor, Room #7421L
Attn: Acid Rain NOx
Washington, DC 20004
(202) 343-9077

IEPA
Management
JAN 03 2022
Reviewer: MDB

PREVIOUSLY IMAGED

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain Permit Application

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ☐ New ☐ Revised ☒ for ARP permit renewal

STEP 1

Identify the facility name, State, and plant (ORIS) code.

Facility (Source) Name	State	Plant Code
Prairie State Generating Station	IL	55856

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a."

a	b
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)
Unit 01	Yes
Unit 02	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes
	Yes

Permit Requirements

STEP 3

Read the standard requirements.

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission

of a new certificate of representation changing the designated representative;

STEP 3, Cont'd.

Recordkeeping and Reporting Requirements, Cont'd.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with

any other provision of the Act, including the provisions of title I of the Act relating

STEP 3, Cont'd.

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a source can hold; *provided,* that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4
Read the certification statement, sign, and date.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Randy Short, Chief Operating Officer Name	
Signature Randy Short	Date April 1, 2021

Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy=s (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, send an email to the EIA. The email address is EIA-860@eia.gov.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a title V permit, or such longer time as provided for under the title V permitting authority's operating permits regulation.

Submission Instructions

Submit this form to the appropriate title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Approval expires 11/30/2012

Acid Rain NO_X Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☒ Revised

STEP 1
Indicate plant name, State, and Plant code from the current Certificate of Representation covering the facility.

Prairie State Generating Station	IL	55856
Plant Name	State	Plant Code

STEP 2

Identify each affected Group 1 and Group 2 boiler using the unit IDs from the current Certificate of Representation covering the facility. Also indicate the boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom, and select the compliance option for each unit by making an 'X' in the appropriate row and column.

	Unit 01 ID#	Unit 02 ID#	ID#	ID#	ID#	ID#
	DBW Type	DBW Type	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)						
(c) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)						
(d) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	X	X				
(e) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(f) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(g) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(h) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						

STEP 2, cont'd

Prairie State Generating Station
Plant Name (From Step 1)

	Unit 01 ID# DBW Type	Unit 02 ID# DBW Type	ID# Type	ID# Type	ID# Type	ID# Type
(i) NO_x Averaging Plan (include NO_x Averaging form)						
(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging Form))						
(l) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						

STEP 3: Identify the first calendar year in which this plan will apply.

January 1, 2011

STEP 4: Read the special provisions and certification, enter the name of the designated representative, sign and date.

Special Provisions

General. This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Randy Short, Chief Operating Officer
Name

Signature Randy Short

Date April 1, 2021

Acid Rain Program
Instructions for Acid Rain NO_X Compliance Plan and Averaging Plan (40 CFR 76.9 and 76.11)

The Acid Rain Program NO_X regulations are found at 40 CFR part 76 and apply to each existing coal-fired utility unit that is subject to sulfur dioxide (SO_2) emission reduction requirements under Sections 404, 405, or 409 of the Clean Air Act. Under 40 CFR 76.9, the owner of operator of each affected unit subject to 40 CFR part 76 must include a NO_X compliance plan in the Acid Rain permit application that covers that unit.

Acid Rain NO_X Compliance Plan Instructions

STEP 1

Enter the plant name and 4 or 5 digit plant code used in the Certificate of Representation covering the facility.

STEP 2

For each boiler subject to an Acid Rain NO limit, enter the boiler (unit) ID #, (consistent with the unit ID # listed for the unit on the Certificate of Representation covering the facility) and check either (1) the appropriate box denoting the standard limit that the unit is subject to in row (a) through (h) or (2) the NO_X averaging plan box in row (i) (if a box in row "i" is checked, a NO_X Averaging Plan form must also be submitted with the NO_X compliance plan). If applicable, one of the boxes in rows (j) through (l) may also be checked. See the "Common Stacks" paragraph immediately below.

Common Stacks

A unit that utilizes a common stack and is separately monitored for NO_X (i.e, has its own NO_X monitor and diluent monitor) is treated as the same as a unit that emits only through its own separate stack.

A unit that utilizes a common stack and is not monitored separately must select one of the applicable common stack options. If the unit shares a common stack with other affected units and no non-affected units and if each of the units has a NO_X emission limitation, three options are available: comply with the most stringent NO_X emission limitation applicable to any unit utilizing the common stack (option (i)); include the units in a NO_X averaging plan (option (k)); or use an approved method for apportioning the combined NO_X emission rate in the common stack (option (l)). If the unit shares a common stack with at least one other unit that does not have a NO_X emission limitation or with at least one non-affected unit, you must use an approved method for apportioning the combined NO_X emission rate (option (l)), unless, of course, the unit is separately monitored.

If an apportionment option is chosen, check, in addition to option (l), the box at Step 2 that indicates the applicable emission limitation and submit to U.S. EPA the documentation supporting apportionment with the monitoring plan submission.

STEP 3

Identify the first calendar year in which the Acid Rain NO_X compliance plan will apply. Beginning with the calendar year denoted at Step 3, this Acid Rain NO_X compliance plan will apply each calendar year that follows until (and if) a superseding Acid Rain NO_X compliance plan is submitted.

Acid Rain NO_X Averaging Plan Instructions

Under 40 CFR 76.11 any affected units under control of the same owner or operator and with the same designated representative may average their NO_X emission rate, rather than each unit complying on an individual-unit basis with the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7. Units with no common owner or operator may not average their emissions. You may submit an averaging plan (or a revision to an approved averaging plan) with the appropriate title V permitting authority(s) at any time up to and including January 1 of the calendar year for which the averaging plan will become effective. If the plan is restricted to units located within a single permitting authority's jurisdiction, you may submit the plan at any time up to and including July 1 of the calendar year for which the plan will become effective.

STEP 1

Each unit in the averaging plan must be a Group 1 or Group 2 boiler subject to an emission limitation under 40 CFR 76.5, 76.6, or 76.7. Enter each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7 in column (a).

For units utilizing a common stack that are averaging pursuant to 40 CFR 75.17(a)(2)(i)(B), the same alternative contemporaneous emission limitation must be entered in column (b) for each unit utilizing the common stack. Different annual heat input limits may be entered for these units in column (c). Units not utilizing the common stack may also be included in the averaging plan with the common stack units.

The annual heat input limit entered at column (c) will be a minimum limit if the value in column (b) is less than the value in column (a) for that unit. It will be a maximum limit if the value in column (b) is greater than the value in column (a). The values entered for each unit at columns (b) and (c) must satisfy the formula at Step 2.

STEP 2

The entries in Step 2 must demonstrate that the Btu-weighted annual emission rate averaged over the units in the plan is less than or equal to the Btu-weighted annual average emission rate for the same units if they are each operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7. Use the equation that appears in Step 2 to demonstrate that the alternative contemporaneous annual emission limitations and annual heat input values assigned to the units in Step 1 satisfy this criterion.

STEP 3

Identify the first calendar year in which the Acid Rain NO_x averaging plan will apply. Beginning with the calendar year denoted at Step 3, this Acid Rain NO_x averaging plan will apply each calendar year that follows until (and if) a superseding Acid Rain NO_x compliance plan or averaging plan is submitted.

General Instructions

(1) Submit one complete set of all forms with **original** signatures to the appropriate title V permitting authority (for NO_x Averaging Plans, a copy of the plan must be submitted to each title V permitting authority with jurisdiction over any of the units in the plan) and one copy to U.S. EPA:

For Regular or Certified Mail:

U.S. Environmental Protection Agency
1200 Pennsylvania Ave., NW
Mail Code 6204M
Attn: Acid Rain NO_x
Washington, DC 20460

For Overnight Mail:

U.S. Environmental Protection Agency
1201 Constitution Ave., NW
7th Floor, Room # 7421L
Attn: Acid Rain NO_x
Washington, DC 20004
(202) 343-9077

(2) For assistance, contact Robert Miller at (202) 343-9077 or Miller.RobertL@epa.gov or call the Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The burden on the public for collecting and reporting of information under this request is fixed per response indicated. Send comments regarding this collection of information, including suggestions for reducing the burden, to: Chief, Information Policy Branch (PM-223), U.S. Environmental Protection Agency,1200 Pennsylvania Ave. NW, Washington, D.C. 20460; and to: Paperwork Reduction Project (OMB#2060-0258), Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503. ***Do not send your forms to these addresses; see the General Instructions on Page 2 for form submission information.***

FORM	HOURS
NO_x Compliance Plan	10
NO_x Averaging Plan	50