

**Iowa Department of Natural Resources
Draft Title V Operating Permit**

Name of Permitted Facility: IPL - Prairie Creek Generating Station
Facility Location: 3300 C Street SW
Cedar Rapids, IA 52404

Air Quality Operating Permit Number: 99-TV-010R1-M002
Expiration Date: November 14, 2016
Permit Renewal Application Deadline: May 14, 2016

EIQ Number: 92-9050
Facility File Number: 57-01-042

Responsible Official

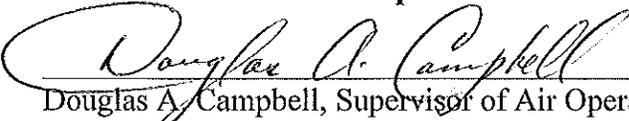
Name: Richard Tripp
Title: Plant Manager
Mailing Address: 3300 C Street SW, Cedar Rapids, IA 52404
Phone #: 319-786-8440

Permit Contact Person for the Facility

Name: Richard Tripp
Title: Plant Manager
Mailing Address: 3300 C Street SW, Cedar Rapids, IA 52404
Phone #: 319-786-8440

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources


Douglas A. Campbell, Supervisor of Air Operating Permits Section

5/4/2012
Date

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IDNR Administrative Consent Order 97-AQ-20

Abbreviations

acfm.....actual cubic feet per minute
APCO.....Air Pollution Control Officer
CFR.....Code of Federal Regulations
°F.....degrees Fahrenheit
EIQ.....emissions inventory questionnaire
gr./dscfgrains per dry standard cubic foot
gr./100 cf.....grains per one hundred cubic feet
IAC.....Iowa Administrative Code
IDNR.....Iowa Department of Natural Resources
LCPHLinn County Public Health
LCO.....Linn County Ordinance
LFG.....Landfill Gas
MVAC.....motor vehicle air conditioner
NMOC.....Non-Methane Organic Compound
NSPSNew Source Performance Standards
OCCR.....Old Corrugated Cardboard Recycle
ppmvparts per million by volume
lb./hrpounds per hour
lb./MMBtupounds per million British thermal units
scfm.....standard cubic feet per minute
TPY.....tons per year
USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
PM₁₀.....particulate matter ten microns or less in diameter
SO₂sulfur dioxide
NO_xnitrogen oxides
VOCvolatile organic compounds
CO.....carbon monoxides
HAP.....hazardous air pollutants

I. Facility Description and Equipment List

Facility Name: IPL - Prairie Creek Generating Station, Cedar Rapids
 Permit Number: 99-TV-010R1-M002

Facility Description: Electric Services

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	LCPH ATI / PTO Numbers
001	301-301	Boiler #1	ATI # 3706/ PTO # 3956
001	301-302	Boiler #2	ATI # 3706/ PTO # 3956
003	302-303	Boiler #3	ATI # 5501 / PTO # 0
015	303-304	Boiler #4	ATI # 5690 / PTO # 0
100	100-100	Bunker Coal Belt w/Dust Handling	ATI # 2991 / PTO # 3073
101	501-100	Boiler #1 Coal Storage Bunker	ATI # 2769 / PTO # 3074
102	502-100	Boiler #2 Coal Storage Bunker	ATI # 2765 / PTO # 3075
103	503-100	Boiler #3 Coal Storage Bunker	ATI # 2768 / PTO # 3076
110	110-110	Reclaim Hopper (Fugitive)	None (Fugitive Source)
120	404-405	Boiler #3 Fly Ash Transfer	ATI # 637 / PTO # 683
120	405-406	Boiler #4 Fly Ash Transfer	ATI # 637 / PTO # 683
120a	406-407	Ash Loadout (Fugitive)	None (Fugitive Source)
121	522-521	Boiler #1 & #2 Fly Ash Transfer	ATI # 2767 / PTO # 3077
121	523-521	Boiler #1 & #2 Bottom Ash Transfer	ATI # 2767 / PTO # 3077
121a	521-521	Ash Loadout (Fugitive)	None (Fugitive Source)
331	331-331	Emergency Generator	ATI # 5718 / PTO # 5543
400	102-102	Coal Stacker (Fugitive)	None (Fugitive Source)
400	400-400	Open Coal Storage Pile (Fugitive)	None (Fugitive Source)
401	401-401	Coal Unloading (Fugitive)	None (Fugitive Source)
402	402-402	Coal Crushing House (Fugitive)	None (Fugitive Source)
403	403-403	Coal Load Out (Fugitive)	None (Fugitive Source)
500	500	Boiler #5	ATI # 3696 / PTO # 3957
501	501-501	AGPAVE Production (Fugitive)	None (Fugitive Source)

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
91-416	#4 Hydrogen Purge Vent B-22
90-415	# 4 Hydrogen Seal Oil Vent B-22
89-414	#4 Vapor Extractor from Seal Oil
85-412	#4 Main Oil Vapor Extractor
73-410	#3 Main Oil Tank Vapor Extractor
342-453	Maintenance Welding Activities
341-452	#1 Boiler Natural Gas Vent
338-450	Natural Gas Bleed Off Vent
335-449	B-13 Decarbonator Tank Vent
333-461	Natural Gas Vent #4 Boiler B-20
332-448	Natural Gas Vent #4 Boiler B-20
325-444	Natural Gas Safety Vent B-36
324-443	Natural Gas Safety Vent
323-442	Natural Gas Safety Vent
322-441	Natural Gas Safety Vent B-36
265-440	Gas Heater (2) Vent B-1
239-437	Gas Heater Vent B-8
237-436	Caustic Tank Vent
235-435	Gas Furnace Vent
230-432	Water Treatment Room Ventilation B-19
193-430	#3 Sootblower Pressure Relief B-13
189-429	Natural Gas Vent #3 B-13
169-428	Natural Gas Vent #4 Boiler Gas Manifold B-20
159-427	Natural Gas Vent #4 Boiler Gas Manifold B-22
128-426	#3 Natural Gas Vent B-23
127-425	#2 Boiler Main Line Natural Gas Vent B-33
124-424	Gas Heater Vent B-38
123-123	Gas Heater Vent B-37
117-420	Gas Heater Vent B-37
116-419	Gas Heater Vent B-37
115-418	Gas Heater Vent B-37
400-400	Bottom Ash Pile (2 acres)
120-120	New Battery Room
120-121	#4 Sootblower Pressure Relief 4PSV-55-01
102-103	Coal Scale Loading Chute
401-401	Hypochlorite Tank
402-402	Sodium Hypochlorite – River Intake
403-403	Sodium Bromide Tank – River Intake
404-404	Sodium Bisulfite Tank – Water Treatment

405-405
406-406
407-407
408-408
409-409

Caustic Tank – Water Treatment
Sulfuric Acid Tank – Water Treatment
500 gallon Unleaded Gasoline Tank
500 gallon #2 Fuel Oil Tank
1000 gallon #2 Fuel Oil Tank

II. Plant-Wide Conditions

Facility Name: IPL / Alliant Energy / Prairie Creek Generating Station, Cedar Rapids

Permit Number: 99-TV-010R1-M002

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five years

Commencing on: November 15, 2011

Ending on: November 14, 2016

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 20 % opacity

Authority for Requirement: LCO 10.7

Sulfur Dioxide (SO₂): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, IPL / Alliant Energy / Prairie Creek Generating Station, Cedar Rapids is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, IPL / Alliant Energy / Prairie Creek Generating Station, Cedar Rapids shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

III. Emission Point-Specific Conditions

Facility Name: IPL / Alliant Energy / Prairie Creek Generating Station, Cedar Rapids
Permit Number: 98-TV-010R1-M002

Emission Point ID Number: 001

Associated Equipment

Associated Emission Unit ID Numbers: 301-301, 301-302
Emissions Control Equipment ID Number: CE102, CE202
Emissions Control Equipment Description: Electrostatic Precipitator

Applicable Requirements

Emission Unit vented through this Emission Point: 301-301
Emission Unit Description: Boiler 1, Spreader Stoker
Raw Material/Fuel: Coal (Auxiliary Fuels: fuel oil, natural gas, methane, OCCR)
Rated Capacity: 304 MMBtu/hr

Emission Unit vented through this Emission Point: 301-302
Emission Unit Description: Boiler 2, Spreader Stoker
Raw Material/Fuel: Coal (Auxiliary Fuels: fuel oil, natural gas, methane, OCCR)
Rated Capacity: 304 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: 20 %
Authority for Requirement: LCPH ATI 3706 / PTO 3956
Iowa DNR PSD Permit 97-A-998-S1
LCO 10.7

Pollutant: PM-10
Emission Limits: 40 lb/hr, 174.8 tpy, 0.16 lb/MMBtu
Authority for Requirement: LCPH ATI 3706 / PTO 3956
Iowa DNR PSD Permit 97-A-998-S1
LCO 10.8(2)

Pollutant: Particulate Matter (PM)

Emission Limits: 40 lb/hr, 174.8 tpy, 0.16 lb/MMBtu

Authority for Requirement: LCPH ATI 3706 / PTO 3956
Iowa DNR PSD Permit 97-A-998-S1
LCO 10.8(2)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 2745 lb/hr, 12023 tons/year, 5.0 lb/MMBtu (2 hour average) for solid fuels.

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
LCPH ATI 3706 / PTO 3956
Administrative Consent Order No. 97-AQ-20

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 1.5 lb/MMBtu (2 hour average) for liquid fuels

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
LCPH ATI 3706 / PTO 3956
LCO10.12(1)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 500 ppmv for gas fuels

Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limits: 235 lb/hr, 1202 tons/year

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1

Pollutant: Carbon Monoxide (CO)

Emission Limits: 141 lb/hr, 618 tons/year

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

- A. The heat input to Boiler #1 shall not exceed 245 MMBtu/hr
- B. The amount of Old Corrugated Cardboard (OCCR) fired in Boiler #1 and 2 combined shall not exceed 5.0 tons per hour.
- C. The amount of OCCR fired in boiler #1 and 2 shall not exceed 10% of the total heat input at any time.
- D. The heat input to Boiler #2 shall not exceed 304 MMBtu/hr.

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
LCPH ATI 3706 / PTO 3956

Operating Limits:

The burning of used oil in this emission unit is limited to that which is generated on-site.

Authority for Requirement: 567 IAC 22.108(3)

Operating Limits:

When Number 1 or Number 2 fuel oil is burned, the sulfur content of the fuel oil shall not exceed 0.5%.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Operating Condition Monitoring:

All records as required below, shall be satisfactory for demonstrating compliance with all applicable operating limits.

Records shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

- A. The amount of coal fired in each boilers #1 and 2, in tons per hour. Calculate and record daily amounts and monthly and rolling 12 month totals.
- B. The electrostatic precipitator used to control the particulate emissions must be operated and maintained according to the manufacturer's recommendations and good operating procedures.
- C. The sulfur content of the coal fired in boilers #1 and 2. Collection and analysis shall follow the latest applicable standards published by the American Society of Testing and Materials (ASTM).
- D. The amount of OCCR fired in boilers #1 and 2, in tons per hour.
- E. The amount of OCCR fired in boilers #1 and 2 as a percentage of the total heat input on an hourly basis.
- F. The total heat input to each boilers #1 and 2, in MMBtu/hr.

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1

Reporting & Record keeping:

- A. Submit quarterly reports to LCHD within 30 days of the end of the quarter for the continuous monitoring information specified in Linn County Ordinance, Chapter 10, Section 17 (7).
- B. Submit excess emission reports to LCHD as required in Linn County Ordinance, Chapter 10, Section 14.

Authority for Requirement: LCPH ATI 3706 / PTO 3956

NESHAP Requirements:

Boiler 1 is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (ft, from ground): 327

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 192

Exhaust Temperature (°F): 470

Exhaust Flow Rate (acfm): 320,520

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
Administrative Consent Order 97-AQ-20

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the Monitoring requirements listed below.

Stack Testing:

Pollutant: Particulate Matter (PM)*

1st Stack Test to be Completed by (date) – November 14, 2013

Test Method - Iowa Compliance Sampling Manual

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
567 IAC 22.108(3)

Pollutant: PM10*

1st Stack Test to be Completed by (date) – November 14, 2013

Test Method - 201A with 202, 40 CFR 51

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
567 IAC 22.108(3)

Pollutant: Sulfur Dioxide (SO₂)*

1st Stack Test to be Completed by (date) - November 14, 2013

Test Method - Method 6C, 40 CFR 60 or approved alternative

Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
567 IAC 22.108(3)

Pollutant: Nitrogen Oxides (NO_x)*

1st Stack Test to be Completed by (date) – November 14, 2013
Test Method - Method 7E, 40 CFR 60 or approved alternative
Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
567 IAC 22.108(3)

Pollutant: Carbon Monoxide (CO)*
1st Stack Test to be Completed by (date) - November 14, 2013
Test Method - Method 10, 40 CFR 60 or approved alternative
Authority for Requirement: Iowa DNR PSD Permit 97-A-998-S1
567 IAC 22.108(3)

* Performance tests for PM, PM10, SO₂, NO_x, Opacity and CO shall be conducted before the changes that allow OCCR to be burned in the boilers to establish baseline emissions and compliance with the emission standards listed in the emission limits section above. Performance tests for PM and NO_x shall be conducted after the changes for OCCR while firing the maximum OCCR allowed to determine if there are increases that would trigger NSPS or PSD. Performance tests for PM10 and CO shall be conducted after the changes for OCCR while firing the maximum OCCR allowed to determine if there are increases that would trigger PSD.

Continuous Emissions Monitoring:

Pollutant - Opacity
Operational Specifications - 40 CFR Part 60
Initial System Calibration/Quality Assurance - 10/31/80
Ongoing System Calibration/Quality Assurance - 40 CFR Part 60
Reporting & Record keeping - 40 CFR Part 60
Authority for Requirement: 567 IAC 25.1(1) and 567 IAC 25.2
LCO 10.17(7)
Iowa DNR PSD Permit 97-A-998-S1

The owner of this equipment or his authorized agent shall provide written notice to the Director and the Linn County local program office, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director and the Linn County local program office in the form of a comprehensive report within 30 days of the completion of the testing. 567 IAC 25.1(7) and LCO 10.17(2)

Monitoring Requirements

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

**Compliance Assurance Monitoring Plan
Electrostatic Precipitator (CE102) for PM / PM-10 Control**

Background

I. Emissions Unit: EP1

A. Description: Boiler 1/2, Spreader Stoker
 Identification: EU301-301
 Facility: IPL - Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.:	LCPH ATI 3706 / PTO 3956 Iowa DNR PSD Permit 97-A-998-S1
Particulate Emission Limit:	0.16 lb/MMBtu PM
Opacity Emission Limit:	20%
Current Monitoring Requirements:	Stack Testing Continuous Opacity Monitoring System (COMS) Primary Power (KVA)
<u>C. Control Technology:</u>	Electrostatic Precipitator

II. Monitoring Approach

1. Indicator	Opacity of ESP exhaust (stack)	Primary Power (KVA)
2. Measurement Approach	COMs in ESP exhaust (stack)	Primary Power (KVA) is monitored not less than 4 (every 15 minute) data points every hour
3. Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment. Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports.	An excursion is defined as the hourly block average of the ESP primary power is out of the ranges below: <35 KVA Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports

4. Performance Criteria	Data Representativeness	Install the COMs at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	Plant computer will take primary power data not less than four data points (every 15 minute) every hour and keep the records. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	QA/QC Practices /Criteria	Install and evaluate COMs per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (KVA) monitoring, will be calibrated, maintained, and operated according to the manufacture specifications.
	Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	Plant computer will monitor primary power not less than four data points (every 15 minutes) per hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.

	Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6 minute average and hourly average opacity data.	Plant computer will monitor and record primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	Averaging Period	Use the 10-second opacity data to calculate 6 minute average. Use the 6 minute average to calculate the hourly block average opacity	Once hourly block average primary power (KVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

**Compliance Assurance Monitoring Plan
Electrostatic Precipitator (CE202) for PM / PM-10 Control**

Background

I. Emissions Unit: EP1

A. Description: Boiler 1/2, Spreader Stoker

Identification: EU301-302

Facility: IPL - Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.: LCPH ATI 3706 / PTO 3956

Iowa DNR PSD Permit 97-A-998-S1

Particulate Emission Limit: 0.16 lb/MMBtu PM

Opacity Emission Limit: 20%

Current Monitoring Requirements: Stack Testing

Continuous Opacity Monitoring System (COMS)

Primary Power (KVA)

C. Control Technology:

Electrostatic Precipitator

II. Monitoring Approach

1. Indicator	Opacity of ESP exhaust (stack)	Primary Power (KVA)
2. Measurement Approach	COMs in ESP exhaust (stack)	Primary Power (KVA) is monitored not less than 4 (every 15 minute) data points every hour
3. Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment. Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports.	An excursion is defined as the hourly block average of the ESP primary power is out of the ranges below: <35 KVA Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports

4. Performance Criteria	Data Representativeness	Install the COMs at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	Plant computer will take primary power data not less than four data points (every 15 minute) every hour and keep the records. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	QA/QC Practices /Criteria	Install and evaluate COMs per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (KVA) monitoring, will be calibrated, maintained, and operated according to the manufacture specifications.
	Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	Plant computer will monitor primary power not less than four data points (every 15 minutes) per hour. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.

	Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6 minute average and hourly average opacity data.	Plant computer will monitor and record primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of primary voltage and amperage readings will be taken once per hour and hourly primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	Averaging Period	Use the 10-second opacity data to calculate 6 minute average. Use the 6 minute average to calculate the hourly block average opacity	Once hourly block average primary power (KVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Emission Point ID Number: 003

Associated Equipment

Associated Emission Unit ID Numbers: 302-303
Emissions Control Equipment ID Number: CE302
Emissions Control Equipment Description: Electrostatic Precipitator
Continuous Emissions Monitors ID Numbers: ME301-3, ME304-5

Applicable Requirements

Emission Unit vented through this Emission Point: 302-303
Emission Unit Description: Boiler #3, Dry Bottom Pulverized Coal Unit
Raw Material/Fuel: Coal, Fuel Oil, Used Oil, Natural Gas, Landfill Gases
Rated Capacity: 611 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: Iowa DNR PSD Permit 08-A-181P
LCPH ATI 5501 / PTO 0
LCO 10.7

Pollutant: PM-10

Emission Limit(s): 0.16 lb/MMBtu

Authority for Requirement: LCPH ATI # 5501 / PTO # 0
LCO 10.8(2)

Pollutant: Particulate Matter (PM)

Emission Limits: 0.16 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 08-A-181P
LCPH ATI 5501 / PTO 0
LCO 10.8(2)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 495.9 lb/hr (62 grams/sec) on a 24-hour rolling average basis.

Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P
Administrative Consent Order No. 97-AQ-20

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 5 lb/MMBtu (two hours average) when burning solid fuels
Authority for Requirement: LCO 10.12(1)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 1.5 lb/MMBtu when burning liquid fuels
Authority for Requirement: LCO 10.12(1)"b"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 500 ppmv when burning gaseous fuels
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)

Emission Limits: Sulfur Dioxide Allowances Effective on January 1, 2011
Authority for Requirement: 567 IAC 22.108(7)
Attached Phase II Acid Rain Permit

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: See attached Phase II Acid Rain Permit 
Authority for Requirement: 567 IAC 22.125(4) (Attached Phase II Acid Rain Permit)
40 CFR Part 76

Pollutant: Carbon Monoxide (CO)
Emission Limits: 152.75¹ lb/hr, 669 ton/yr, 0.25 lb/MMBtu ¹
Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P

¹ Standard is a 30-day rolling average

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

An electrostatic precipitator shall be used to control particulate matter emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5501 / PTO 0

NSPS and NESHAP Applicability:

- This unit is not subject to the New Source Performance Standards (NSPS).
- This unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P

Operating Limits:

- A. Continuous operation of this boiler above 611 MMBtu/hr is limited to 48 hours of operation. No single monthly average operating capacity shall exceed 611 MMBtu/hr. These are based on EtaPro data.
- B. This boiler shall be allowed to combust, coal, fuel oil, natural gas, and methane.
- C. The control equipment shall be inspected and maintained according to manufacturer's specifications.
- D. The continuous emission monitor (CEM) for CO shall be installed and operated no later than the date of completion of the overfire air and low NO_x burners modification on Unit 3. The CO BACT limits begin 3 months after the installation of the NO_x control equipment. This allows for a shakedown period for the NO_x control systems.

Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P

Operating Condition Monitoring and Recordkeeping:

All records as required by this permit shall be kept on site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- A. During the first twelve (12) months of operation, determine the heat input (MMBtu/hr) average for this device for each month of operation.
- B. After the first twelve (12) months of operation, determine the heat input (MMBtu/hr) based on a 12-month rolling average.
- C. The owner or operator shall maintain a record of control equipment maintenance and inspection results.
- D. The owner or operator shall submit quarterly reports on opacity, SO₂, NO_x, CO, CO₂ and airflow to the Administrator and IDNR. For those items only required to be submitted to the Administrator (EPA) regarding the Acid Rain requirements, do not send a duplicate copy of these items to IDNR and LCPH. These reports shall confirm the requirements of 40 CFR Part 75.

Authority for Requirement: LCPH ATI 5501/ PTO 0
Iowa DNR PSD Permit 08-A-181P

Continuous Emission Monitoring:

SO₂, NO_x and opacity continuous emission monitors (CEMs) are required. These shall be operated, calibrated, and recorded according to the specifications in 40 CFR 75.

Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P

Quarterly Report Requirements:

The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30 and October 30).

- A. CEM reports for SO_x, NO_x, CO and Opacity.
- B. Monthly coal sulfur certification analyses for the quarter.

Authority for Requirement: LCPH ATI 5501 / PTO 0

Other Conditions:

Continuous emission monitoring and data collection equipment capable of recording total site hourly and twenty-four hour rolling average SO₂ emission information shall be installed and operational.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Emission Point Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 201

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 149.25

Exhaust Temperature (°F): 450

Exhaust Flowrate (acfm): 199875

Authority for Requirement: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181P

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Continuous Emissions Monitoring:

Pollutant:	Opacity
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	6/17/1980
Ongoing System Calibration/Quality Assurance:	40 CFR 60
Reporting & Record keeping:	40 CFR 60. Submit all reports and petitions required by 40 CFR 60 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program and the 20% opacity (visible emissions) limit.
Authority for Requirement:	567 IAC 25.1(1) 567 IAC 25.2 567 IAC 23.3(2)"d" 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Sulfur Dioxide (SO ₂)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	4/12/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program and the 5 lb/MMBtu SO ₂ emission limit.
Authority for Requirement:	567 IAC 25.2 567 IAC 23.3(3)"a" 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Nitrogen Oxides (NO _x)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	4/12/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

Other Parameters:

Pollutant:	Carbon Dioxide (CO ₂)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	4/12/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Flow
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	4/12/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7).

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

**Compliance Assurance Monitoring Plan
Electrostatic Precipitator (CE302) for PM / PM-10 Control**

Background

I. Emissions Unit: EP3

A. Description: Boiler 3, Dry Bottom Pulverized Coal Unit
Identification: EU302-303
Facility: IPL -Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.: LCPH ATI 5501 / PTO 0
Iowa DNR PSD Permit 08-A-181-P

Particulate Emission Limit: 0.16 lb/MMBtu PM

Opacity Emission Limit: 20%

Current Monitoring Requirements: Stack Testing
Continuous Opacity Monitoring System (COMS)

C. Control Technology:

Primary Power (KVA)
Electrostatic Precipitator

II. Monitoring Approach

1. Indicator	Opacity of ESP exhaust (stack)	Primary Power (KVA)
2. Measurement Approach	COMs in ESP exhaust (stack)	Primary Power (KVA) is monitored not less than 4 (every 15 minute) data points every hour
3. Indicator Range	<p>An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup, shutdown, or cleaning of control equipment.</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports.</p>	<p>An excursion is defined as the hourly block average of the ESP Primary power is out of the ranges below: <35 KVA</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports</p>

4. Performance Criteria	Data Representativeness	Install the COMs at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	<p>Plant computer will take Primary power data not less than four data points (every 15 minute) every hour and keep the records.</p> <p>In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly secondary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.</p>
	QA/QC Practices /Criteria	Install and evaluate COMs per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (KVA) monitoring, will be calibrated, maintained, and operated according to the manufacture specifications.
	Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	<p>Plant computer will monitor Primary power not less than four data points (every 15 minutes) per hour.</p> <p>In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly Primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.</p>

	Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6 minute average and hourly average opacity data.	Plant computer will monitor and record Primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly Primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	Averaging Period	Use the 10-second opacity data to calculate 6 minute average. Use the 6 minute average to calculate the hourly block average opacity	Once hourly block average Primary power (KVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Emission Point ID Number: 15

Associated Equipment

Associated Emission Unit ID Numbers: 303-304
Emissions Control Equipment ID Number: CE402
Emissions Control Equipment Description: Electrostatic Precipitator
Continuous Emissions Monitors ID Numbers: ME401-3, ME404-5

Applicable Requirements

Emission Unit vented through this Emission Point: 303-304
Emission Unit Description: Boiler #4, Dry Bottom Pulverized Coal Unit
Raw Material/Fuel: Coal, Fuel Oil, Natural Gas, Used Oil, Landfill Gases
Rated Capacity: 1370 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 20 %
Authority for Requirement: LCPH ATI 5690 / LCPH PTO 0
LCO 10.7

Pollutant: PM-10
Emission Limit(s): 0.16 lb/MMBtu
Authority for Requirement: LCPH ATI 5690 / LCPH PTO 0
LCO 10.8(2)"b"

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.16 lb/MMBtu
Authority for Requirement: LCPH ATI 5690 / LCPH PTO 0
LCO 10.8(2)"b"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 1289.3 lb/hr (162 grams/sec) on a 24-hour rolling average basis.
Authority for Requirement: Administrative Consent Order No. 97-AQ-20
LCPH ATI 5690 / LCPH ATI 0

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 5 lb/MMBtu (two hours average) when burning solid fuels
Authority for Requirement: LCO 10.12(1)"a"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 1.5 lb/MMBtu (two hours average) when burning liquid fuels
Authority for Requirement: LCO 10.12(1)"b"

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: 500 ppmv when burning gaseous fuels
Authority for Requirement: 567 IAC 23.3(3)"e"
LCO 10.12(2)
LCPH ATI 5690 / LCPH PTO 0

Pollutant: Sulfur Dioxide (SO₂)
Emission Limits: Sulfur Dioxide Allowances Effective on January 1, 2011
Authority for Requirement: 567 IAC 22.108(7)
Attached Phase II Acid Rain Permit

Pollutant: Nitrogen Oxide (NO_x)
Emission Limits: See attached Phase II Acid Rain Permit
Authority for Requirement: 567 IAC 22.125(4) (Attached Phase II Acid Rain Permit)
40 CFR Part 76

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Control Device:

An electrostatic precipitator shall be used to control particulate matter emissions. Low-NO_x burners shall be installed to control NO_x emissions. The control equipment shall be maintained properly and operated at all times the air pollution source is in operation. All appropriate probes, monitors and gauges needed to measure the parameters outlined in "Operating Condition Monitoring and Recordkeeping" shall be installed, maintained and operating during the operation of the emission unit and control device at all times.

Authority for Requirement: LCPH ATI 5690 / PTO 0

NSPS and NESHAP Applicability:

- This unit is not subject to the New Source Performance Standards (NSPS).
- This unit is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Authority for Requirement: LCPH ATI 5690 / PTO 0

Operating Limits:

- A. Continuous operation of this boiler above 1370 MMBtu/hr is limited to 48 hours of operation. No single monthly average operating capacity shall exceed 1370 MMBtu/hr. These are based on EtaPro data.
- B. This boiler shall be allowed to combust, coal, fuel oil, natural gas, and methane.
- C. The control equipment shall be inspected and maintained according to manufacturer's specifications.

Authority for Requirement: LCPH ATI 5690 / PTO 0

Operating Condition Monitoring and Recordkeeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the Linn County Air Quality Division and other federal or state air pollution regulatory agencies and their authorized representatives.

- A. During the first twelve (12) months of operation, determine the heat input (MMBtu/hr) average for this device for each month of operation.
- B. After the first twelve (12) months of operation, determine the heat input (MMBtu/hr) based on a 12-month rolling average.
- C. The owner or operator shall maintain a record of control equipment maintenance and inspection results.
- D. The owner or operator shall submit quarterly CEMS reports on opacity, SO₂, and NO_x to Linn County Public Health, Air Quality Division.

Authority for Requirement: LCPH ATI 5690 / PTO 0

Continuous Emission Monitoring:

SO₂, NO_x, and opacity continuous emission monitors (CEMs) are required. These shall be operated, calibrated, and recorded according to the specifications in 40 CFR 75.

Authority for Requirement: LCPH ATI 5690 / PTO 0

Quarterly Report Requirements:

The following information shall be submitted to this department by the 30th of each month for the previous quarter (January 30, April 30, July 30, and October 30).

- A. CEM reports for SO₂, NO_x and Opacity
- B. Monthly coal sulfur certification analyses for the quarter

Authority for Requirement: LCPH ATI 5690 / PTO 0

Operating Conditions:

Continuous emission monitoring and data collection equipment capable of recording total site hourly and twenty-four hour rolling average SO₂ emission information shall be installed and operational.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Maintain hourly and twenty-four hour rolling average SO₂ records for Prairie Creek Generating Station which will verify compliance with the twenty-four hour rolling average SO₂ emission limit. The records shall include the data required in the previous paragraph and in 40 CFR 75 for Continuous Emissions Monitoring.

Authority for Requirement: Administrative Consent Order No. 97-AQ-20

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height (ft, from ground): 201

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 156

Exhaust Temperature (°F): 329

Exhaust Flowrate (acfm): 571,354

Authority for Requirement: LCPH ATI 5690 / PTO 0

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Continuous Emissions Monitoring:

Pollutant:	Opacity
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	7/18/1980
Ongoing System Calibration/Quality Assurance:	40 CFR 60
Reporting & Record keeping:	40 CFR 60. Submit all reports and petitions required by 40 CFR 60 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program and the 20% opacity (visible emissions) limit.
Authority for Requirement:	567 IAC 25.1(1) 567 IAC 25.2 567 IAC 23.3(2)"d" 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Sulfur Dioxide (SO ₂)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	10/16/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program and the 5 lb/MMBtu SO ₂ emission limit.
Authority for Requirement:	567 IAC 25.2 567 IAC 23.3(3)"a" 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Nitrogen Oxides (NO _x)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	10/16/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

Other Parameters:

Pollutant:	Carbon Dioxide (CO ₂)
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	10/16/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

Pollutant:	Flow
Operational Specifications:	40 CFR 75
Date of Initial System Calibration & Quality Assurance:	10/16/2001
Ongoing System Calibration/Quality Assurance:	40 CFR 75
Reporting & Record keeping:	40 CFR 75. Submit all reports and petitions required by 40 CFR Part 75 to the Iowa DNR in order to demonstrate compliance with continuous emissions monitoring under the acid rain program.
Authority for Requirement:	567 IAC 25.2 567 IAC 22.108(4) 567 IAC 22.108(15)

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a

continuous emission monitor. Results of the tests shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7).

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

**Compliance Assurance Monitoring Plan
Electrostatic Precipitator for PM / PM-10 Control**

Background

I. Emissions Unit: EP15

A. Description: Boiler 4, Dry Bottom Pulverized Coal Unit
Identification: EU303-304
Facility: IPL - Prairie Creek Generating Station

B. Applicable Regulation, Emission Limit, and Monitoring Requirements:

Regulation No.: LCPH ATI 5690 / PTO 0

Particulate Emission Limit: 0.16 lb/MMBtu PM

Opacity Emission Limit: 20%

Current Monitoring Requirements: Stack Testing
Continuous Opacity Monitoring System (COMS)
Primary Power (KVA)

C. Control Technology: Electrostatic Precipitator

II. Monitoring Approach

1. Indicator	Opacity of ESP exhaust (stack)	Primary Power (KVA)
2. Measurement Approach	COMs in ESP exhaust (stack)	Primary Power (KVA) is monitored not less than 4 (every 15 minute) data points every hour
3. Indicator Range	An excursion is defined as the hourly block average opacity exceeds 20% except during a period of startup,	An excursion is defined as the hourly block average of the ESP Primary power is out of the ranges below:

	<p>shutdown, or cleaning of control equipment.</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports.</p>	<p><175 KVA</p> <p>Excursions trigger an inspection, corrective action, and a reporting requirement at annual or semi annual reports</p>
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4. Performance Criteria	Data Representativeness	Install the COMs at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, Performance Specification 1 (PS-1)	<p>Plant computer will take Primary power data not less than four data points (every 15 minute) every hour and keep the records.</p> <p>In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly Primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.</p>
	QA/QC Practices /Criteria	Install and evaluate COMs per PS-1. The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.	The voltage and amperage gauges, which are for power (KVA) monitoring, will be calibrated, maintained, and operated according to the manufacture specifications.
	Monitoring Frequency	Monitor opacity of the ESP exhaust continuously (every 10 seconds)	<p>Plant computer will monitor Primary power not less than four data points (every 15 minutes) per hour.</p> <p>In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly Primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.</p>

	Data Collection Procedures	Set up the data acquisition system (DAS) to retain all 6 minute average and hourly average opacity data.	Plant computer will monitor and record Primary power not less than 4 data points (every 15 minutes) every hour and keep the record for 5 years and available upon request. In case of computer and/or software malfunction, manual readings of Primary voltage and amperage readings will be taken once per hour and hourly Primary power (KVA) will be calculated in 48 hours. Each data point will represent entire hour block.
	Averaging Period	Use the 10-second opacity data to calculate 6 minute average. Use the 6 minute average to calculate the hourly block average opacity	Once hourly block average Primary power (KVA) is out of range based on computer indication or one manual out of range point, an excursion is triggered.

III. Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the opacity indicator or the power indicator exceeds 5 percent of the boiler's normal operating time for a 6-month reporting period.

Emission Point ID Number: 100

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 100-100

Emissions Control Equipment ID Number: CE 100

Emissions Control Equipment Description: Baghouse

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 100

Emission Unit Description: Bunker Coal Belt w/Dust Handling

Raw Material/Fuel: Coal

Rated Capacity: 750 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCPH ATI 2991 / PTO 3073
LCO 10.7 and 10.9.2 (22)
567 IAC 23.1(2)"v"
40 CFR 60.252 Subpart Y

Pollutant: PM₁₀

Emission Limits: 3.35 lb/hr, 14.67 tpy

Authority for Requirement: LCPH ATI 2991 / PTO 3073

Pollutant: Particulate Matter (PM)

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9 (1)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1 (2)"v"
LCO 10.9.2 (22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)
Stack Testing is not required.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required?

Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 101

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 501-100

Emissions Control Equipment ID Number: CE 501

Emissions Control Equipment Description: Bin Vent Filter

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 501-100

Emission Unit Description: Boiler #1 Coal Storage Bunker

Raw Material/Fuel: Coal

Rated Capacity: 12 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCPH ATI 2769/ PTO 3074
LCO 10.7 and 10.9.2 (22)
567 IAC 231.(2)"v"
40 CFR 60.252 (c) Subpart Y

Pollutant: PM₁₀

Emission Limits: 0.50 lb/hr, 2.20 tpy

Authority for Requirement: LCPH ATI 2769/ PTO 3074

Pollutant: Particulate Matter (PM)

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9 (1)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Air flow to the filter shall be limited to 2500 dscfm.

Authority for Requirement: LCPH ATI 2769/ PTO 3074

Reporting and Record keeping:

All records, as required below, shall be satisfactory for demonstrating compliance with all applicable operating limits. Records shall be maintained on-site for at least five years and shall be available for inspection upon request by the Linn County Public Health Department. Records shall indicate the following:

- A. The total coal throughput for the bunker on a 12-month rolling basis.

Authority for Requirement: 567 IAC 22.108(3)

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1 (2)"v"
LCO 10.9.2 (22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer

shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 102

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 502-100

Emissions Control Equipment ID Number: CE 502

Emissions Control Equipment Description: Bin Vent Filter

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 502-100

Emission Unit Description: Boiler #2 Coal Storage Bunker

Raw Material/Fuel: Coal

Rated Capacity: 12 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCPH ATI 2765 / PTO 3075
LCO 10.7 and 10.9.2 (22)
567 IAC 23.1(2)"v"
40 CFR 60.252 (c) Subpart Y

Pollutant: PM₁₀

Emission Limits: 0.50 lb/hr, 2.20 tpy

Authority for Requirement: LCPH ATI 2765 / PTO 3075

Pollutant: Particulate Matter (PM)

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9(1)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Air flow to the filter shall be limited to 2500 dscfm.

Authority for Requirement: LCPH ATI 2765 / PTO 3075

Reporting and Record keeping:

All records, as required below, shall be satisfactory for demonstrating compliance with all applicable operating limits. Records shall be maintained on-site for at least five years and shall be available for inspection upon request by the Linn County Public Health Department. Records shall indicate the following:

- A. The total coal throughput for the bunker on a 12-month rolling basis.

Authority for Requirement: 567 IAC 22.108(3)

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1 (2)"v"
LCO 10.9.2 (22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer

shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 103

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 503-100

Emissions Control Equipment ID Number: CE 503

Emissions Control Equipment Description: Bin Vent Filter

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 503-100

Emission Unit Description: Boiler #3 Coal Storage Bunker

Raw Material/Fuel: Coal

Rated Capacity: 28 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCPH ATI 2768 / PTO 3076
LCO 10.7 and 10.9.2(22)
567 IAC 23.1(2)"v"
40 CFR 60.252 (c) Subpart Y

Pollutant: PM₁₀

Emission Limits: 0.50 lb/hr, 2.20 tpy

Authority for Requirement: LCPH ATI 2768 / PTO 3076

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9(1)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Air flow to the filter shall be limited to 2500 dscfm.

Authority for Requirement: LCPH ATI 2768 / PTO 3076

Reporting and Record keeping:

All records, as required below, shall be satisfactory for demonstrating compliance with all applicable operating limits. Records shall be maintained on-site for at least five years and shall be available for inspection upon request by the Linn County Public Health Department. Records shall indicate the following:

- A. The total coal throughput for the bunker on a 12-month rolling basis.

Authority for Requirement: 567 IAC 22.108(3)

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer

shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 110

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 110-110

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 110-110

Emission Unit Description: Reclaim Hopper

Raw Material/Fuel: Coal

Rated Capacity: 750 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 20%

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60.252 (c) Subpart Y

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which

may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. The facility shall use EPA Method 9 with a certified smoke reader for the monitoring method. If an opacity > 20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120

Associated Equipment

Associated Emission Unit ID Number: 404-405, 405-406

Emissions Control Equipment ID Number: CE405, CE406

Emissions Control Equipment Description: CE405 Baghouse for 404-405
CE406 Baghouse for 405-406

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 404-405

Emission Unit Description: Boiler #3 Fly Ash Transfer

Raw Material/Fuel: Ash

Rated Capacity: 10 tons/hr

Emission Unit vented through this Emission Point: 405-406

Emission Unit Description: Boiler # 4 Fly Ash Transfer

Raw Material/Fuel: Ash

Rated Capacity: 10 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCO 10.7

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567--IAC 23.3(2)"a"

LCO 10.9(1)"a"

LCPH ATI 637 / PTO 683

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as

soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 120a

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 406-407

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 406-407

Emission Unit Description: Ash Loadout (Fugitive Dust)

Raw Material/Fuel: Ash

Rated Capacity: 60 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No :

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 121

Associated Equipment

Associated Emission Unit ID Number: 522-521, 523-521
Emissions Control Equipment ID Number: CE520, CE521, CE522
Emissions Control Equipment: CE520 Baghouse
 CE521 Cyclone
 CE522 Baghouse

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 522-521
Emission Unit Description: 1/2 Fly Ash Transfer
Raw Material/Fuel: Ash
Rated Capacity: 1650 scfm

Emission Unit vented through this Emission Point: 523-521
Emission Unit Description: 1/2 Bottom Ash Transfer
Raw Material/Fuel: Ash
Rated Capacity: 1650 scfm

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limits: 20 %
Authority for Requirement: LCPH ATI 2767 / PTO 3077
 LCO 10.7

Pollutant: PM₁₀
Emission Limits: 0.29 lb/hr, 1.27 tpy
Authority for Requirement: LCPH ATI 2767 / PTO 3077

Pollutant: Particulate Matter (PM)
Emission Limits: 0.29 lb/hr, 1.27 tpy
Authority for Requirement: LCPH ATI 2767 / PTO 3077

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Monitoring Requirements:

The optical monitor is the primary method of monitoring operations of this unit. IPL shall take weekly pressure drop reading any time the optical monitor is not working. All monitors shall be easily accessible to air pollution personnel.

Record keeping requirements: A log of operation shall be maintained for the above listed unit. The following information shall be recorded and kept on site for a period of not less than five (5) years.

- Weekly pressure drop readings, if optical monitor is not operating.
- Records of all maintenance and repair completed on the control device.

Authority for Requirement: ATI # 2767 / PTO 3077

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 121a

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 521-521

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 521-521

Emission Unit Description: Ash Loadout (Fugitive Dust) for Units #1 and #2

Raw Material/Fuel: Ash

Rated Capacity: 120 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 331

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 331-331

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 331-331

Emission Unit Description: #2 Emergency Generator

Raw Material/Fuel: #2 Fuel Oil

Rated Capacity: 1000 KW

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20%

Authority for Requirement: LCPH ATI 5718 / PTO 5543
LCO 10.7

Pollutant: PM₁₀

Emission Limits: 0.44 lb/hr

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Pollutant: Particulate Matter (PM)

Emission Limits: 0.44 lb/hr

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 1.5 lb/MMBTU

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Pollutant: Nitrogen Oxide (NO_x) + NMHC

Emission Limits: 6.40 grams/kw-hr

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Pollutant: Carbon Monoxide (CO)

Emission Limits: 3.5 grams/kw-hr

Authority for Requirement: LCPH ATI # 5718 / PTO # 5543

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operation Limits:

- This source shall be limited to 500 hours of operation per year calculated on a 12-month rolling average.
- Fuel use in this unit shall be either #1 or #2 grade diesel fuel only, with a maximum concentration of 0.5% sulfur by weight. Beginning June 1, 2010 CIICE subject to 40 CFR 60.4207(b), sulfur content shall not exceed 15 ppm.

Authority for Requirement: LCPH ATI 5718 / PTO 5543

Reporting and Record keeping:

A log of operation shall be maintained for the operation of the above listed units. As a minimum the following information shall be recorded and kept on site for a period of five years. These records shall be available at all times for viewing by air pollution control personnel.

- Total hours of engine operation
- Type of fuel burned and sulfur concentration by weight

Authority for Requirement: LCPH ATI 5718 / PTO 5543

NSPS Requirements:

The New Source Performance Standards (NSPS) *Subpart A, General Provisions and Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* shall apply to this source pursuant to LCCO 10.9(2)"77" and 567 IAC 23.1(2)"yyy".

Authority for Requirement: 40 CFR 60 Subpart III

NESHAP Requirements:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (ft, from ground): 38

Discharge Style: Vertical, unobstructed

Stack Opening (inches, diameter): 20

Exhaust Temperature (° F): 965

Stack Exhaust Flow Rate (acfm): 3100

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack testing is not required at this time.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 400

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 102-102 and 400-400

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 102-102

Emission Unit Description: Coal Stacker

Raw Material/Fuel: Coal

Rated Capacity: 750 ton/hr

Emission Unit vented through this Emission Point: 400-400

Emission Unit Description: Coal Pile Storage

Raw Material/Fuel: Coal

Rated Capacity: 8 Acres

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 401

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 401-401

Emissions Control Equipment ID Number: NA

Emissions Control Equipment Description: Surfactant Based Dust Suppression

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 401-401

Emission Unit Description: Coal Unloading

Raw Material/Fuel: Coal

Rated Capacity: 600 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCO 10.7
567 IAC 23.1(2)"v"
40 CFR 60.252 (c) Subpart Y

Pollutant: Particulate Matter (PM)

Emission Limits: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"
LCO 10.9(1) and 10.9(1)"a"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. The facility shall use EPA Method 9 with a certified smoke reader for the monitoring method. If an opacity > 20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 402

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 402-402
Emissions Control Equipment ID Number: NA
Emissions Control Equipment Description: Surfactant based dust suppression

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 402-402
Emission Unit Description: Coal Crushing House
Raw Material/Fuel: Coal
Rated Capacity: 750 tons/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 20 %

Authority for Requirement: LCO 10.7
567 IAC 23.1(2)"v"
40 CFR 60.252(c) Subpart Y

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which

may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >20 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 403

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 403-403

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 403-403

Emission Unit Description: Coal Load Out

Raw Material/Fuel: Coal

Rated Capacity: 600 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 20%

Authority for Requirement: 567 IAC 23.1(2)"v"
40 CFR 60.252(c) Subpart Y

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which

may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)"v"
LCO 10.9.2(22)
40 CFR 60 Subpart Y

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. The facility shall use EPA Method 9 with a certified smoke reader for the monitoring method. If an opacity > 20% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(3)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 500

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 500

Emissions Control Equipment ID Number: NA

Emissions Control Equipment Description: Low NO_x Burner with Steam Injection

Continuous Emissions Monitors ID Numbers: ME 500

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 500

Emission Unit Description: Boiler #5 with low NO_x burners and steam injection

Raw Material/Fuel: Natural Gas

Rated Capacity: 278 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limits: 0 %, 20 %

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1
LCO 10.7

Pollutant: PM₁₀

Emission Limits: 2.78 lb/hr, 5.0 tons/year, 0.01 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

Pollutant: Particulate Matter (PM)

Emission Limits: 2.78 lb/hr, 5.0 tons/year, 0.01 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1
40 CFR 60, Subpart Db

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 0.17 lb/hr, 0.3 tons/year, 0.0006 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

Pollutant: Nitrogen Oxides (NO_x)

Emission Limits: 27.8 lb/hr, 50 tons/year, 0.1 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

Pollutant: Carbon Monoxide (CO)

Emission Limits: 9.73 lb/hr, 17.5 tons/year, 0.035 lb/MMBtu

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

- A. This boiler may be fired by natural gas only.
- B. The amount of natural gas fired in this boiler may not exceed $1000 \times 10^6 \text{ ft}^3$ per rolling 12 month period.

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

Operating Condition Monitoring:

All records, as required below, shall be satisfactory for demonstrating compliance with all applicable operating limits.

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

- A. The amount of natural gas fired in this boiler, in cubic feet. Calculate and record daily amounts and monthly and rolling 12 month totals.
- B. The design heat input capacity of this boiler.
- C. The NO_x emissions as recorded by the CEM as required in 40 CFR 60.48b(b).
- D. Recordkeeping requirements of 40 CFR 60.49b(g) which include: calendar date, average hourly NO_x emission rate, 30-Day average NO_x emission rate, days NO_x emission rate exceed limit, record of missing data and explanation, documentation of reasons for excluding data, indication of when concentration exceeded span value, description of monitoring system, results of drift tests and quality assurance assessments

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

NSPS Requirements:

The opacity standard shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. 40 CFR 60.11 (c)

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. 40CFR 60.11(d)

The permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: 567 IAC 23.1(2)
LCO 10.9.2(1)
40 CFR 60 Subpart Db.

NESHAP Requirements:

This equipment is of the source category affected by the following federal regulation: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Point Characteristics

This emission point shall conform to the conditions listed below.

Stack Height (ft, from ground): 106.5
Discharge Style: Vertical, unobstructed
Stack Opening (inches, diameter): 78
Exhaust Temperature (° F): 470
Stack Exhaust Flow Rate (acfm): 79640
Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >0 % is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions.

If weather conditions prevent the observer from conducting an opacity observation, the observer

shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Maintain a written record of the observation and any action resulting from the observation for a minimum of five years.

Authority for Requirement: 567 IAC 22.108(14)

Continuous Emissions Monitoring:

Pollutant - Nitrogen Oxide (NO_x)

Operational Specifications - 40 CFR Part 60

Initial System Calibration/Quality Assurance -10/30/96

Ongoing System Calibration/Quality Assurance - 40 CFR Part 60

Reporting & Record keeping - 40 CFR Part 60

Authority for Requirement: Iowa DNR PSD Permit 97-A-999-S1
40 CFR 60.48b

The owner of this equipment or his authorized agent shall provide written notice to the Director and the Linn County local program office, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the tests shall be submitted in writing to the Director and the Linn County local program office in the form of a comprehensive report within 30 days of the completion of the testing. 567 IAC 25.1(7) and LCO 10.17(2)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

The data pertaining to the plan shall be maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 501

Associated Equipment

Associated Emission Unit ID Numbers (if multiple units vent through this EP): 501-501

Applicable Requirements

(If more than one emission unit vents through this emission point subdivide the applicable requirements by emission unit.)

Emission Unit vented through this Emission Point: 501-501

Emission Unit Description: AGPAVE Production

Raw Material/Fuel: Flyash

Rated Capacity: 60 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust

No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"
LCO 10.13

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the

compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. 567 IAC 22.108 (15)"e"

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. 567 IAC 22.108 (5)

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and
 - f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
 - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
 - b. Compliance test methods specified in 567 Chapter 25; or
 - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - a. Any monitoring or testing methods provided in these rules; or
 - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control

measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
 - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
 - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
 - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed

- therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act.
 - e. The changes comply with all applicable requirements.
 - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
 - i. A brief description of the change within the permitted facility,
 - ii. The date on which the change will occur,
 - iii. Any change in emission as a result of that change,
 - iv. The pollutants emitted subject to the emissions trade
 - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
 - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
 - vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

- 2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
- 3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
- 4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
- 5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

- 1. Administrative Amendment.
 - a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit

responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.

iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.

ii. The permittee's suggested draft permit

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"j"; 567 IAC 23.2(3)"j" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original

permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit;
or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1

Windsor Heights, IA 50324
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2

2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW

Des Moines, IA 50313
(515) 286-3351

Cedar Rapids, IA 52405
(319) 892-6000

Appendices

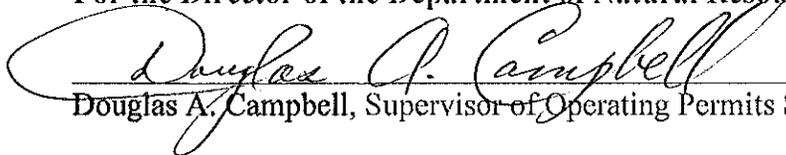


AIR QUALITY BUREAU
7900 Hickman Rd., Suite 1
Windsor Heights, IA 50324

Phase II Acid Rain Permit

Issued to: Prairie Creek
Operated by: Interstate Power and Light (Alliant Energy Co.)
ORIS code: 1073
Effective: November 15, 2011 through November 14, 2016

For the Director of the Department of Natural Resources


Douglas A. Campbell, Supervisor of Operating Permits Section

11/15/2011
Date

Acid Rain Permit comprises the following:

- 1) Statement of Basis.
- 2) SO₂ allowances allocated under this permit and NO_x requirements for each affected unit.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source, as corrected by the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with Iowa Code paragraph 455B.133[8"a"], and Titles IV and V of the Clean Air Act, the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section issues this permit pursuant to 567 Iowa Administrative Code (IAC) 22.135(455B) to 22.145(455B) and 567 IAC 22.100(455B) to 22.116(455B). The compliance options are approved as proposed in the attached application.

2) SO₂ Allowance Allocations and NO_x Requirements for each affected unit

		2011	2012	2013	2014	2015	2016
Unit 3	SO ₂ allowances, under Table 2 of 40 CFR part 73.	727*	727*	727*	727*	727*	727*
	NO _x limit (Averaging Plan through Dec. 31, 2015)	<p>Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a NO_x compliance plan which includes an emission averaging plan for Unit 3. The NO_x emission averaging plan is effective from January 1, 2011 through December 31, 2015. Under the NO_x averaging plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the alternative contemporaneous annual emission limitation of 0.43 lbs/mmBtu, and this unit's actual annual heat input shall not be more than the annual heat input of 1,999,109 mmBtu.</p> <p>The other units in the averaging plan are Burlington Unit 1, Dubuque Unit 1, Dubuque Unit 5, M. L. Kapp Unit 2, Lansing Unit 3 and Lansing Unit 4. For each year under the plan, the actual Btu-weighted annual average emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitation in 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A) and (B)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous emission limitation and annual heat input limit.</p> <p>On January 1, 2016, under the remainder of the NO_x compliance plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.7(a)(2), which is 0.46 lbs/mmBtu for dry bottom wall-fired units.</p> <p>In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x averaging plan and the requirements covering excess emissions.</p>					

SO₂ Allowance Allocations and NO_x Requirements for each affected unit continued

		2011	2012	2013	2014	2015	2016
Unit 4	SO ₂ allowances, under Table 2 of 40 CFR part 73.	3440*	3440*	3440*	3440*	3440*	3440*
	NO _x limit	<p>Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a standard emission limitation compliance plan for Unit 9. The NO_x compliance plan is effective beginning November 15, 2011 through November 14, 2016. Under the NO_x compliance plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.7(a)(2), which is 0.46 lbs/mmBtu for dry bottom wall-fired units.</p> <p>In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and the requirements covering excess emissions.</p>					

* The number of allowances allocated to Phase II affected units by U.S. EPA in 40 CFR part 73 Table 2 (Revised May 12, 2005). In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO₂ allowance allocations identified in this permit (See 40 CFR 72.84).

3) Comments, Notes and Justifications:

Renewal of the Phase II SO₂ and NO_x permit.

The NO_x Averaging Plan portion of this Phase II Permit will cover the period from January 1, 2011 through December 31, 2015 (IDNR). On January 1, 2016 the NO_x emission limit changes to the Revised NO_x emission limitations for Group 1, Phase II boilers (40 CFR 76.7). An application for a new averaging plan must be submitted no later than January 1, 2016 (See 40 CFR 76.11(b)(1)) in lieu of complying with the Revised NO_x emission limitations for Group 1, Phase II boilers (40 CFR 76.7).

4) Permit Application: Attached.

Prairie Creek Generating Station Plant Name (from Step 1)
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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 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)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), 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 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.

STEP 3,
Cont'd.

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.

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.

Prairie Creek Generating Station
 Plant Name (from Step 1)

Step 3,
 Cont'd.

Liability, Cont'd.

- (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 or 72.8 shall be construed as:

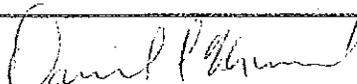
- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating 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.

STEP 4

Certification

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.

Name	Daniel L. Mineck	
Signature		Date 3-21-02

Plant Name (from Step 1) **Prairie Creek Generating Station**

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
3	4				
Type DBW	Type DBW	Type	Type	Type	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)	<input type="checkbox"/>				
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	<input type="checkbox"/>				
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	<input type="checkbox"/>				
(p) Repowering extension plan approved or under review	<input type="checkbox"/>				

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

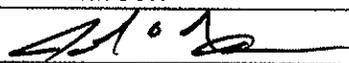
Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).

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	John O. Larsen	
Signature		Date 3-24-11

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STEP 3

This plan is effective for calendar year 2011 through calendar year 2015

unless notification to terminate the plan is given.

Mark one of the two options and enter dates.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Special Provisions

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

- (i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
 - (a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
 - (b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
- (ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
- (ii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

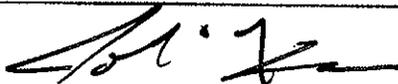
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

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 John O Larsen	
Signature 	Date 3-24-11

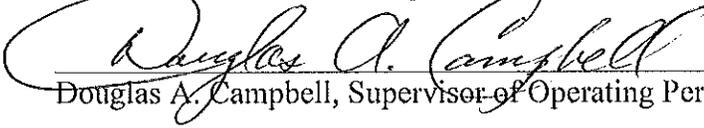


AIR QUALITY BUREAU
7900 Hickman Rd., Suite 1
Windsor Heights, IA 50324

Clean Air Interstate Rule (CAIR) Permit

Issued to: Prairie Creek
Operated by: Interstate Power and Light (Alliant Energy Co.)
ORIS code: 1073
Effective: November 15, 2011 through November 14, 2016

For the Director of the Department of Natural Resources


Douglas A. Campbell, Supervisor of Operating Permits Section

11/15/2011
Date

Clean Air Interstate Rule (CAIR) Permit comprises the following:

- 1) Statement of Basis.
- 2) Nitrogen Oxide (NO_x) annual and ozone season allowances allocated under this permit for each affected unit. Sulfur Dioxide (SO₂) allowances are allocated under the Acid Rain Program for units affected under that program. Under the CAIR program the SO₂ allowances will have different values depending on the date of reconciliation.
- 3) Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements or conditions.
- 4) The permit application submitted for this source, as corrected by the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

1) Statement of Basis

Statutory and Regulatory Authorities: In accordance with Iowa Code Chapter 455B, and Title I of the Clean Air Act, the Iowa Department of Natural Resources (IDNR), Air Quality Bureau, Operating Permit Section issues this permit pursuant to 567 Iowa Administrative Code (IAC) 34.203(455B) NO_x Annual, 34.223(455B) NO_x Ozone Season, SO₂ Annual 34.210(455B) and 567 IAC 22.100(455B) to 22.116(455B). The compliance options are approved as proposed in the attached application.

2) NO_x Annual and NO_x Ozone Season allowance allocations and SO₂ requirements for each affected unit.

		2011	2012	2013	2014	2015	2016
Unit 3	NO _x Annual Allowances under Table 1A of 567 IAC 34.205(2)	317*	317*	317*	317*	270*	270*
	NO _x Ozone Season Allowances under Table 2A of 567 IAC 34.225(2)	134*	134*	134*	134*	114*	114*
	SO ₂ allowances requirements are effective January 1, 2010	Sulfur Dioxide (SO ₂) allowances are allocated under the Acid Rain Program for units affected under that program (Table 2 of 40 CFR Part 73). The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO ₂ Annual allowance allocations identified in this permit (See 40 CFR 96.223(b)). Under the CAIR program the SO ₂ allowances will have different values depending on the date of reconciliation (40 CFR 96.202).					

2) NO_x Annual and NO_x Ozone Season allowance allocations and SO₂ requirements for each affected unit continued.

		2011	2012	2013	2014	2015	2016
Unit 4	NO _x Annual Allowances under Table 1A of 567 IAC 34.205(2)	771*	771*	771*	771*	656*	656*
	NO _x Ozone Season Allowances under Table 2A of 567 IAC 34.225(2)	366*	366*	366*	366*	312*	312*
	SO ₂ allowances requirements are effective January 1, 2010	Sulfur Dioxide (SO ₂) allowances are allocated under the Acid Rain Program for units affected under that program (Table 2 of 40 CFR Part 73). The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO ₂ Annual allowance allocations identified in this permit (See 40 CFR 96.223(b)). Under the CAIR program the SO ₂ allowances will have different values depending on the date of reconciliation (40 CFR 96.202).					

*The number of allowances actually held by an affected source in a unit account may differ from the number the IDNR has instructed EPA to allocate. The aforementioned condition does not necessitate a revision to the unit NO_x Annual or NO_x Ozone Season allowance allocations identified in this permit (See 40 CFR 96.123(b) for NO_x Annual and 40 CFR 96.323(b) NO_x Ozone Season).

3) Comments, Notes and Justifications: Boilers 3 and 4 are affected units under the Acid Rain program and are affected units under CAIR. These units are required to acquire allowances to cover their NO_x Annual, NO_x Ozone Season and SO₂ emissions.

4) Permit Application: Attached.

Plant Name (from Step 1) Prairie Creek Generating Station

**STEP 3,
continued**

(b) Monitoring, reporting, and recordkeeping requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(2) The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) with the CAIR NO_x emissions limitation, CAIR SO₂ emissions limitation, and CAIR NO_x Ozone Season emissions limitation (as applicable) under paragraph (c) of §96.106, §96.206, and §96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under §96.154(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

(2) A CAIR NO_x unit shall be subject to the requirements under paragraph (c)(1) of §96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.106, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.

(4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with subparts FF, GG, and II of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.105 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EE, FF, GG, or II of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO_x unit.

Sulfur dioxide emission requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period under §96.254(a) and (b) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

(2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), (2), or (5) and for each control period thereafter.

(3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.206, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

(4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FFF, GGG, and III of 40 CFR part 96.

(5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR SO₂ allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart FFF, GGG, or III of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.

Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under §96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of §96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.370(b)(1), (2), (3) or (7) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.306, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides 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 an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

(6) A CAIR NO_x allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subpart EEEE, FFFF, GGGG, or IIII of 40 CFR part 96, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

Plant Name (from Step 1) Prairie Creek Generating Station

**STEP 3,
continued**

(d) Excess emissions requirements.

If a CAIR NO_x source emits nitrogen oxides during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO₂ source emits sulfur dioxide during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO_x Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) 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 before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 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 CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

(f) Liability.

(1) Each CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x units, CAIR SO₂ units, and CAIR NO_x Ozone Season units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable) that applies to a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) shall also apply to the owners and operators of such unit.

Plant Name (from Step 1) Prairie Creek Generating Station

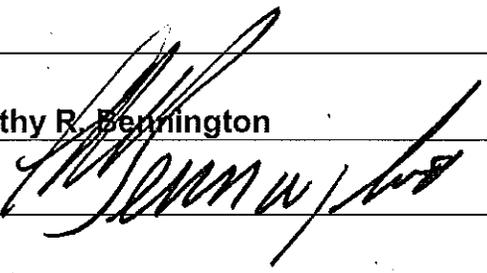
**STEP 3,
continued**

(g) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) or CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

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 Timothy R. Bennington	
Signature 	Date 6/20/07

IOWA DEPARTMENT OF NATURAL RESOURCES
ADMINISTRATIVE ORDER

IN THE MATTER OF: IES UTILITIES, INC.	ADMINISTRATIVE CONSENT ORDER NO. 97-AQ-20
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TO: IES Utilities, Inc.
c/o Daniel Siegfried, Legal Department
200 First Street S.E.
P.O. Box 351
Cedar Rapids, Iowa 52406-0351

I. SUMMARY

This consent order is entered into between IES Utilities Inc. (IES) and the Iowa Department of Natural Resources (DNR) for the purpose of resolving the issue of IES's contribution of sulfur dioxide (SO₂) to three exceedances of the National Ambient Air Quality Standard (NAAQS) in January, February and March 1996.

II. STATEMENT OF FACTS

1. DNR has determined that three exceedances of the SO₂ National Ambient Air Quality 24-hour standard have occurred in Cedar Rapids, Iowa. On January 28, 1996, a SO₂ monitor located at the Scottish Rite Temple at 616 A Avenue N.E. in Cedar Rapids indicated a reading of 0.15 parts per million (ppm); on February 28, 1996, the same monitor rendered a reading of 0.20 ppm; and on March 2, 1996, the same monitor rendered a reading of 0.27 ppm. The level of the 24-hour standard is 0.14 ppm, not to be exceeded more than once per calendar year.

2. IES is an Iowa Corporation with its principal place of business at 200 First Street S.E. in Cedar Rapids, Iowa. IES is an investor-owned public gas and electric utility. Modeling has established that IES's Sixth Street Generating Station, a major stationary source, is a significant contributor to the SO₂ levels monitored. The monitor is located near IES's Sixth Street Generating Station (Sixth Street).

3. Sixth Street, located at 509 6th Street N.E., and Prairie Creek Generating Station, located at 3300 C Street S.W., are coal, gas and resifil fired generating stations located in Cedar Rapids, Iowa, providing electrical and steam service to customers in the Cedar Rapids area. Resifil, currently burned at Sixth Street, is a combustible fuel derived from the furfural manufacturing process.

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4. In May 1995, the United States Environmental Protection Agency, (EPA) published its Sulfur Dioxide Network Design Review for Cedar Rapids, Iowa, (Design Review), indicating that certain areas of Cedar Rapids might be nonattainment for SO₂ and recommending the addition and relocation of monitors in and around Cedar Rapids.

5. Upon review of EPA's Design Review, IES began to analyze various options to further minimize any contribution of SO₂ emissions from its two Cedar Rapids generating facilities, Sixth Street and Prairie Creek. IES also met with DNR and the Linn County Health Department (LCHD), and other facilities in the Cedar Rapids area, for the purpose of reviewing EPA's Design Review and strategizing on resolution of the issues raised.

6. IES has considered several options in an attempt to avoid the need for the Cedar Rapids area to be designated as nonattainment for SO₂. The option to close the Sixth Street facility was rejected by IES for the following reasons: "This has been determined not to be a viable option at this time. Thermal energy costs comprise a significant portion of the production costs of major grain processing companies in the downtown Cedar Rapids area. A sudden increase in energy pricing could have significant impact and employment consequences for our major steam customers. IES believes that we must keep Sixth Street station operational to provide these customers with economic thermal energy (steam) in the short term while we search for a long term economic and environmentally balanced energy to fill these customers' needs."

7. IES also has considered the option of initiating an SO₂ emissions minimization plan. IES asserts that this option would allow Sixth Street to continue to provide electricity, service to its steam customers, and reduce SO₂ emissions. Computer modeling performed by IES concluded that SO₂ emissions at a rate of 667 lbs./hour or less on a 24-hour rolling average basis from Sixth Street would not result in an exceedance of the NAAQS for SO₂. IES asserts that by changing fuel choices to those which have lower sulfur content, SO₂ emissions could be reduced while maintaining the economic viability of the facility. A test burn of a new fuel blend was conducted between November 25 and December 23, 1996, which confirmed that SO₂ emissions did not result in any exceedance of the SO₂ NAAQS and could be managed below the site limit of 667 lbs./hour on a 24-hour rolling average basis. Updated modeling, a copy of which has been provided to DNR by IES, demonstrates attainment for the area using this plan.

8. This Administrative Consent Order is entered into between DNR and IES for the purpose of resolving IES's contribution to the SO₂ National Ambient Air Quality Violations monitored in Cedar Rapids, Iowa.

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III. CONCLUSIONS OF LAW

1. This order is issued pursuant to the provisions of Iowa Code sections 455B.134(9) and 455B.138(1), which authorize the Director to issue any administrative orders necessary to secure compliance with or prevent a violation of Iowa Code chapter 455B, Division II, and the rules promulgated and permits issued pursuant thereto, and to prevent, abate, and control air pollution.

2. The emission units located at IES in Cedar Rapids, Iowa, are "air contaminant sources" as defined by Iowa Code section 455B.131(2) and "stationary sources" as defined by 567 Iowa Administrative Code (I.A.C.) 20.2.

3. According to 567 I.A.C. 28.1, the ambient air quality standards for the State of Iowa shall be the National Primary and Secondary Ambient Air Quality Standards (NAAQS) located at 40 C.F.R. Part 50, as amended through July 1, 1987.

4. The primary 24-hour ambient air quality standard for SO₂ is 0.14 parts per million, according to the provisions of 40 CFR Part 50. The 24-hour maximum allowable concentration should not be exceeded more than once per calendar year. The concentrations monitored in this case constitute a violation of this standard.

5. An exceedance of the NAAQS for SO₂ constitutes "air pollution" as defined by Iowa Code section 455B.131(3).

6. In accordance with the provisions of Iowa Code section 455B.134(9), the Director shall issue orders consistent with the rules to cause the abatement or control of air pollution.

7. According to the provisions of 567 I.A.C. 22.1(1) and 567 I.A.C. 22.1(3), the owner or operator of a stationary source shall obtain a permit to install or alter equipment or control equipment. Any modifications occurring as a result of this consent order shall require a construction permit or shall meet the requirements of a construction permit exemption contained in the provisions of 567 I.A.C. 22.1(2).

IV. ORDER

THEREFORE, DNR orders and IES Utilities Inc. agrees to do the following:

With regard to the Sixth Street Generating Station:

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1. Effective on the date this order is signed by both parties, IES agrees to limit the site emissions from the Sixth Street Generating Station boiler stacks to a maximum emission rate of 84 grams/sec (667 lbs./hour) SO₂ on a twenty-four hour rolling average basis. The value of 84 grams/sec (667 lbs./hour) SO₂ reflects the modeling requirements for demonstrating and maintaining the SO₂ NAAQS.

2. By no later than December 1, 1997, IES shall have in place at the Sixth Street Generating Station monitoring and data collection equipment capable of recording total site hourly and twenty-four hour rolling average SO₂ emission information.

3. By no later than December 1, 1997, IES shall begin maintaining hourly and twenty-four hour rolling average records for its Sixth Street Generating Station which will verify compliance with the twenty-four hour rolling average SO₂ emission limit. These records shall include the data required pursuant to paragraph 2 above and 40 CFR Part 75 for Continuous Emissions Monitoring.

With regard to the Prairie Creek Generating Station:

1. IES shall install a combined stack for Units one (1) and two (2) to a height of three hundred and twenty-seven (327) feet above ground level. IES shall extend the existing boiler stack for Unit three (3) to a height of 200 feet above ground level. Unit four (4) shall utilize its existing stack with no changes. By no later than April 15, 1998, IES shall submit to DNR or LCHD, as appropriate, applications for any required air quality construction permits. The construction shall be completed within 24 months of issuance of the necessary permits.

2. By no later than July 1, 1998, IES shall limit the unit emissions from its Prairie Creek Generating Station Unit three (3) to a maximum emission rate of 62 g/s (495.9 lbs./hr) SO₂, and from its Unit four (4) boiler stack to a maximum emission rate of 162 g/sec (1289.3 lbs./hour) SO₂ on a twenty-four hour rolling average basis.

3. By no later than December 1, 1997, IES shall have in place on Units three (3) and four (4) at Prairie Creek Generating Station monitoring and data collection equipment capable of recording total unit hourly and twenty-four hour rolling average SO₂ emission information.

4. By no later than December 1, 1997, IES shall begin maintaining hourly and twenty-four hour rolling average records for its Units three (3) and four (4) at the Prairie Creek Generating Station. These records shall include the data required under Paragraph 3 and 40 CFR Part 75 for Continuous Emissions Monitoring.

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5. By no later than July 1, 1998, IES shall limit the sulfur content of the fuels burned in Units one (1) and two (2) so as to limit the emissions from Units 1 and 2 to 5.0 lbs. SO₂ /MMBtu of heat input. For Units one (1) and two (2), IES shall maintain documentation of station fuel burns via its monthly filed Federal Energy Regulatory Commission (FERC) Form 423. Also for Units one (1) and (2), IES shall collect and maintain Coal Supplier analysis report documentation, including collection and preparation of samples to follow latest applicable standards published by the American Society for Testing and Materials (ASTM).

V. WAIVER OF APPEAL RIGHTS

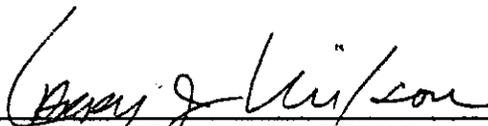
This order is entered into knowingly and with the consent of IES Utilities Inc. For that reason, IES Utilities Inc. waives its right to appeal this order or any part thereof.

VI. NONCOMPLIANCE

Failure to comply with this order may result in the imposition of administrative penalties or referral to the Attorney General's office to obtain injunctive relief and civil penalties pursuant to the provisions of Iowa Code section 455B.146. IES reserves the right to contest, on all bases available in law or equity, any such actions for penalties or damages.

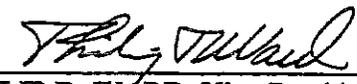
Any questions regarding this consent order should be directed to:

Anne Preziosi
Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand Avenue
Des Moines, Iowa 50319-0034



LARRY J. WILSON, DIRECTOR
IOWA DEPARTMENT OF NATURAL RESOURCES

Dated this 20th day of
November, 1997.



PHILIP D. WARD, Vice-President and
General Manager, GENCO
for IES UTILITIES INC.

Dated this 19th day of
NOVEMBER, 1997.