

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

Name of Permitted Facility: IPL – Burlington Generating Station
Facility Location: 4282 Sullivan Slough Rd, Burlington, IA 52601
Air Quality Operating Permit Number: 98-TV-023R3
Expiration Date: June 3, 2023
Permit Renewal Application Deadline: December 3, 2022

EIQ Number: 92-2773
Facility File Number: 29-01-013

Responsible Official

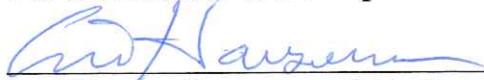
Name: Robert Huschak
Title: Plant Manager
Mailing Address: 4282 Sullivan Slough Rd, Burlington, IA 52601
Phone #: 319-758-5301

Permit Contact Person for the Facility

Name: Robert Huschak
Title: Plant Manager
Mailing Address: 4282 Sullivan Slough Rd, Burlington, IA 52601
Phone #: 319-758-5301

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



Lori Hanson, Supervisor of Air Operating Permits Section

06/04/2018

Date

Table of Contents

I. Facility Description and Equipment List	4
II. Plant - Wide Conditions.....	6
III. Emission Point Specific Conditions	10
IV. General Conditions.....	77
G1. Duty to Comply	
G2. Permit Expiration	
G3. Certification Requirement for Title V Related Documents	
G4. Annual Compliance Certification	
G5. Semi-Annual Monitoring Report	
G6. Annual Fee	
G7. Inspection of Premises, Records, Equipment, Methods and Discharges	
G8. Duty to Provide Information	
G9. General Maintenance and Repair Duties	
G10. Recordkeeping Requirements for Compliance Monitoring	
G11. Evidence used in establishing that a violation has or is occurring.	
G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification	
G13. Hazardous Release	
G14. Excess Emissions and Excess Emissions Reporting Requirements	
G15. Permit Deviation Reporting Requirements	
G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations	
G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification	
G18. Duty to Modify a Title V Permit	
G19. Duty to Obtain Construction Permits	
G20. Asbestos	
G21. Open Burning	
G22. Acid Rain (Title IV) Emissions Allowances	
G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements	
G24. Permit Reopenings	
G25. Permit Shield	
G26. Severability	
G27. Property Rights	
G28. Transferability	
G29. Disclaimer	
G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification	
G31. Prevention of Air Pollution Emergency Episodes	
G32. Contacts List	
V. Appendix A: Web Reference Links.....	91
VI. Appendix B: CAM Plan	92
VII. Appendix C: System-wide Consent Decree Requirements	102
VIII. Appendix D: TR Requirements and Acid Rain Permit	109

Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
CSAPR.....	Cross-State Air Pollution Rule
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP	emission point
EU	emission unit
gr/dscf	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS	new source performance standard
ppmv	parts per million by volume
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC	Standard Industrial Classification
TPY	tons per year
TR	Transport Rule
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten microns or less in diameter
PM _{2.5}	particulate matter 2.5 microns or less in diameter
SO ₂	sulfur dioxide
NO _x	nitrogen oxides
VOC.....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: IPL – Burlington Generating Station

Permit Number: 98-TV-023R3

Facility Description: Electrical Services (SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP 01	EU 01	Combustion Turbine #1	92-A-569-S3
	EU 01A	Diesel Starter Engine for CT #1	
EP 02	EU 02	Combustion Turbine #2	92-A-570-S3
	EU 02A	Diesel Starter Engine for CT #2	
EP 03	EU 03	Combustion Turbine #3	92-A-571-S3
	EU 03A	Diesel Starter Engine for CT #3	
EP 04	EU 04	Combustion Turbine #4	92-A-572-S3
	EU 04A	Diesel Starter Engine for CT #4	
EP 13	EU 13	Emergency Stationary RICE Generator	05-A-934
EP 16	EU 16	House Heat Boiler	00-A-859
EP 17	EU 17	Main Plant Boiler	93-A-390-S12
EP 18	EU 18	Ash Hydroveyor	-
EP 18-1	EU 18-1	Ash Hydroveyor	-
EP 19	EU 19	Dry Fly Ash Primary Vacuum Producer	95-A-597-S3
EP 19-1	EU 19-1	Dry Fly Ash Backup Vacuum Producer	97-A-127-S2
EP 20	EU 20	Fly Ash Storage Silo	97-A-126
EP 20A	EU 20A	Fly Ash Unloading	-
EP 20B	EU 20B	Fly Ash Loadout – C-Stone Production	-
EP 22	EU 22	Fuel Oil Tank (10,000 gallons)	-
EP 23	EU 23	Fuel Oil Tank (10,000 gallons)	-
EP 25	EU 25	Coal Galley	93-A-386-S2
EP 25A		Coal Galley (Fugitive)	-
EP 26	EU 26	Coal Pile	-
EP 27	EU 27	Coal Dumper House (Track Hoppers)	93-A-389-S1
EP 28	EU 28	Coal Reclaim Tripper (Fugitive)	-
EP 29	EU 29	Barge Hopper	-
EP 30	EU 30	Crusher (Fugitive)	-
	EU 38	Crusher House Conveyor (Fugitive)	
EP 31	EU 31	Transfer Equipment (Fugitive)	-
	EU 37	Transfer House Conveyor (Fugitive)	
EP 40	EU 40	Reclaim Hopper	93-A-388-S3
EP 40A		Reclaim Hopper (Fugitive)	-
EP 44	EU 44	Natural Gas Heater	-
EP 100	EU 30	Crusher	93-A-387-S3
	EU 38	Crusher House Conveyor	
	EU 31	Transfer Equipment	
	EU 37	Transfer House Conveyor	
EP 101	EU 101	AC Silo	14-A-059

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU 05	Turbine Lube Oil Vent #1
EU 07	Turbine Lube Oil Vent #2
EU 09	Turbine Lube Oil Vent #3
EU 11	Turbine Lube Oil Vent #4
EU 20c	C-Stone Pile & Delivery
EU 39a	Gasoline Storage Tank (300 gallons)
EU 42	Welding Booth
EU 43	Parts Washer
EU 44	Natural Gas Heater (2 MMBtu/hr indirect heat)
EU 50	Portable Diesel Water Pump (30 hp)
EU 51	Portable Diesel Air Compressor (70 hp)

II. Plant-Wide Conditions

Facility Name: IPL – Burlington Generating Station
Permit Number: 98-TV-023R3

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

Permit Duration

The term of this permit is: 5 years
Commencing on: June 4, 2018
Ending on: June 3, 2023

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): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

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 on or 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 - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits 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 roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) 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 public 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 be 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, fertilizer 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.
6. Reducing the speed of vehicles traveling over on-property surfaces as necessary to minimize the generation of airborne dusts.

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

40 CFR 63 Subpart A Requirements

This facility has units that are subject to 40 CFR 63 Subpart A: General Provisions.

Authority for Requirement: 40 CFR 63 Subpart A
567 IAC 23.1(4)"a"

40 CFR 63 Subpart YYYY Requirements

This facility is subject to National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines – 40 CFR 63 subpart YYYY per 40 CFR 63.6090, and the affected units are EU 01, EU 02, EU 03, and EU 04. However, per 40 CFR 63.6090(b)(4), those existing combustion turbines (which existed before January 14, 2003 per 40 CFR 63.6090(a)(1)) do not have to meet the requirements of subpart YYYY and subpart A of part 63.

See appendix for the link to complete text of this standard

Authority for Requirement: 40 CFR 63 Subpart YYYY
567 IAC 23.1(4)"cy"

40 CFR 63 Subpart ZZZZ Requirements

This facility has units that are subject to 40 CFR 63 Subpart ZZZZ: National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. See appendix for the link to complete text of this standard.

Authority for Requirement: 40 CFR 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

40 CFR 63 Subpart DDDDD Requirements

This facility has units that are subject to 40 CFR 63 Subpart DDDDD: National Emission Standard for Hazardous Air Pollutants: Industrial, Commercial and Institutional Boilers and Process Heaters.

See appendix for the link to complete text of this standard.

Authority for Requirement: 40 CFR 63 Subpart DDDDD

40 CFR 63 Subpart UUUUU Requirements

Main Plant Boiler (EU 17) is subject to 40 CFR 63 Subpart UUUUU: National Emission Standards for Hazardous Air Pollutants from Coal- and Oil-fired Electric Utility Steam Generating Units. See appendix for the link to complete text of this standard.

Authority for Requirement: 40 CFR 63 Subpart UUUUU

40 CFR 60 Subpart Dc Requirements

This facility has units that are subject to 40 CFR 60 Subpart Dc: Standards of Performance for Small Industrial-Commercial-Industrial Steam Generating Units. See appendix for link to complete text of this standard.

Authority for Requirement: 40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

40 CFR 60 Subpart Y Requirements

This facility has units that are subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants.

See appendix for the link to complete text of this standard.

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

40 CFR 60 Subpart GG Requirements

This facility has units that are subject to 40 CFR 60 Subpart GG: Standards of Performance for Stationary Gas Turbines.

See appendix for the link to complete text of this standard.

Authority for Requirement: 40 CFR 60 Subpart GG
567 IAC 23.1(2)"aa"

System-wide Consent Decree Requirements

Interstate Power and Light Company (IPL) has entered into a Consent Decree [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)]. The permittee shall comply with all applicable system-wide requirements in Appendix C – System-wide Consent Decree Requirements for IPL Facilities in Iowa.

Authority for Requirement: DNR Construction Permit 93-A-390-S12
567 IAC 22.108(1)

III. Emission Point-Specific Conditions

Facility Name: IPL – Burlington Generating Station

Permit Number: **98-TV-023R3**

Emission Point ID Number: EP 01

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 01	Combustion Turbine #1	-	Natural Gas & Fuel Oil	288 MMBtu/hr	92-A-569-S3
EU 01A	Diesel Starter Engine for CT #1	-	Diesel	40 gal/hr	

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	92-A-569-S3; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	4.8 lb/hr ⁽²⁾	92-A-569-S3
	12.5 lb/hr ⁽³⁾	92-A-569-S3
	4.32 ton/yr ⁽⁴⁾	92-A-569-S3
Particulate Matter (PM)	4.8 lb/hr ⁽²⁾	92-A-569-S3
	12.5 lb/hr ⁽³⁾	92-A-569-S3
	4.32 ton/yr ⁽⁴⁾	92-A-569-S3
Sulfur Dioxide (SO ₂)	1.8 lb/hr ⁽²⁾	92-A-569-S3
	8.8 lb/hr ⁽³⁾	92-A-569-S3
	2.81 ton/yr ⁽⁴⁾	92-A-569-S3
Nitrogen Oxides (NO _x)	95.0 lb/hr	92-A-569-S3
	41.33 ton/yr	92-A-569-S3
Volatile Organic Compounds (VOC)	13.9 lb/hr	92-A-569-S3
	6.05 ton/yr	92-A-569-S3
Carbon Monoxide (CO)	38.4 lb/hr	92-A-569-S3
	16.7 ton/yr	92-A-569-S3

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ Limit is for emissions from gas.

⁽³⁾ Limit is for emissions from oil.

⁽⁴⁾ Limit is for emissions from gas and oil combined

Operational Limits & Requirements

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

Operating Limits:

- A. This turbine shall be fired by natural gas or fuel oil #1 or #2 only.
- B. This turbine shall be operated a maximum of 7 hours and 15 minutes per day when fired by fuel oil.
- C. This turbine shall be operated a maximum of 200 hours per rolling 12 month period when fired by fuel oil.
- D. This turbine shall be operated a maximum of 850 hours per rolling 12 month period.
- E. The sulfur content of any fuel fired in this turbine shall not exceed 0.5% by weight.
- F. The inlet fogger on this turbine is allowed to operate anytime the turbine is in operation.

Authority for Requirement: DNR PSD Construction Permit 92-A-569-S3

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Record the number of hours this turbine is fired by each fuel. Calculate and record daily, monthly and rolling 12-month totals.
- B. Record the sulfur content of any fuel fired in this turbine, in weight percent.
- C. Determine compliance with the NO_x and SO₂ limits cited above by applying the latest emission factors with the amount of fuel consumed for each turbine. Calculate and record monthly and 12 month rolling totals.

Authority for Requirement: DNR PSD Construction Permit 92-A-569-S3

NSPS Subpart GG Requirements:

This combustion turbine is subject to Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines) of the New Source Performance Standards (NSPS) with respect to the testing of fuels for sulfur content as required by 40 CFR 60.334 and 60.335.

Authority for Requirement: DNR PSD Construction Permit 92-A-569-S3
40 CFR 60 Subpart GG
567 IAC 23.1(2)"aa"

NESHAP Subpart ZZZZ Requirements:

The black start engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(i) this black start engine, located at a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6600, 63.6625, and Table 2c to Subpart ZZZZ

- A. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- B. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
- C. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- D. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification and Reporting Requirements 40 CFR 63.6645 and 6650

- A. An initial notification is not required per 40 CFR 63.6645(a)(5).
- B. Comply with applicable notification requirements in 40 CFR 63.6645 and reporting requirements in 40 CFR 63.6650.

Recordkeeping Requirements 40 CFR 63.6655

- A. Comply with applicable recordkeeping requirements in 40 CFR 63.6655.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37

Stack Opening, (inches): 96 x 120

Exhaust Flow Rate (scfm): 144,350

Exhaust Temperature (°F): 960

Discharge Style: Vertical

Authority for Requirement: DNR PSD Construction Permit 92-A-569-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 02

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 02	Combustion Turbine #2	-	Natural Gas & Fuel Oil	288 MMBtu/hr	92-A-570-S3
EU 02A	Diesel Starter Engine for CT #2	-	Diesel	40 gal/hr	

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	92-A-570-S3; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	4.8 lb/hr ⁽²⁾	92-A-570-S3
	12.5 lb/hr ⁽³⁾	92-A-570-S3
	4.32 ton/yr ⁽⁴⁾	92-A-570-S3
Particulate Matter (PM)	4.8 lb/hr ⁽²⁾	92-A-570-S3
	12.5 lb/hr ⁽³⁾	92-A-570-S3
	4.32 ton/yr ⁽⁴⁾	92-A-570-S3
Sulfur Dioxide (SO ₂)	1.8 lb/hr ⁽²⁾	92-A-570-S3
	8.8 lb/hr ⁽³⁾	92-A-570-S3
	2.81 ton/yr ⁽⁴⁾	92-A-570-S3
Nitrogen Oxides (NO _x)	95.0 lb/hr	92-A-570-S3
	41.33 ton/yr	92-A-570-S3
Volatile Organic Compounds (VOC)	13.9 lb/hr	92-A-570-S3
	6.05 ton/yr	92-A-570-S3
Carbon Monoxide (CO)	38.4 lb/hr	92-A-570-S3
	16.7 ton/yr	92-A-570-S3

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ Limit is for emissions from gas.

⁽³⁾ Limit is for emissions from oil.

⁽⁴⁾ Limit is for emissions from gas and oil combined

Operational Limits & Requirements

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

Operating Limits:

A. This turbine shall be fired by natural gas or fuel oil #1 or #2 only.

B. This turbine shall be operated a maximum of 7 hours and 15 minutes per day when fired by fuel oil.

- C. This turbine shall be operated a maximum of 200 hours per rolling 12 month period when fired by fuel oil.
- D. This turbine shall be operated a maximum of 850 hours per rolling 12 month period.
- E. The sulfur content of any fuel fired in this turbine shall not exceed 0.5% by weight.
- F. The inlet fogger on this turbine is allowed to operate anytime the turbine is in operation.

Authority for Requirement: DNR PSD Construction Permit 92-A-570-S3

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Record the number of hours this turbine is fired by each fuel. Calculate and record daily, monthly and rolling 12-month totals.
- B. Record the sulfur content of any fuel fired in this turbine, in weight percent.
- C. Determine compliance with the NO_x and SO₂ limits cited above by applying the latest emission factors with the amount of fuel consumed for each turbine. Calculate and record monthly and 12 month rolling totals.

Authority for Requirement: DNR PSD Construction Permit 92-A-570-S3

NSPS Subpart GG Requirements:

This combustion turbine is subject to Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines) of the New Source Performance Standards (NSPS) with respect to the testing of fuels for sulfur content as required by 40 CFR 60.334 and 60.335.

Authority for Requirement: DNR PSD Construction Permit 92-A-570-S3
 40 CFR 60 Subpart GG
 567 IAC 23.1(2)"aa"

NESHAP Subpart ZZZZ Requirements:

The black start engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(i) this black start engine, located at a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6600, 63.6625, and Table 2c to Subpart ZZZZ

- A. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- B. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.

- C. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- D. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification and Reporting Requirements 40 CFR 63.6645 and 6650

- A. An initial notification is not required per 40 CFR 63.6645(a)(5).
- B. Comply with applicable notification requirements in 40 CFR 63.6645 and reporting requirements in 40 CFR 63.6650.

Recordkeeping Requirements 40 CFR 63.6655

- A. Comply with applicable recordkeeping requirements in 40 CFR 63.6655.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37

Stack Opening, (inches): 96 x 120

Exhaust Flow Rate (scfm): 144,350

Exhaust Temperature (°F): 960

Discharge Style: Vertical

Authority for Requirement: DNR PSD Construction Permit 92-A-570-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 03

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 03	Combustion Turbine #3	-	Natural Gas & Fuel Oil	288 MMBtu/hr	92-A-571-S3
EU 03A	Diesel Starter Engine for CT #3	-	Diesel	40 gal/hr	

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	92-A-571-S3; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	4.8 lb/hr ⁽²⁾	92-A-571-S3
	12.5 lb/hr ⁽³⁾	92-A-571-S3
	4.32 ton/yr ⁽⁴⁾	92-A-571-S3
Particulate Matter (PM)	4.8 lb/hr ⁽²⁾	92-A-571-S3
	12.5 lb/hr ⁽³⁾	92-A-571-S3
	4.32 ton/yr ⁽⁴⁾	92-A-571-S3
Sulfur Dioxide (SO ₂)	1.8 lb/hr ⁽²⁾	92-A-571-S3
	8.8 lb/hr ⁽³⁾	92-A-571-S3
	2.81 ton/yr ⁽⁴⁾	92-A-571-S3
Nitrogen Oxides (NO _x)	95.0 lb/hr	92-A-571-S3
	41.33 ton/yr	92-A-571-S3
Volatile Organic Compounds (VOC)	13.9 lb/hr	92-A-571-S3
	6.05 ton/yr	92-A-571-S3
Carbon Monoxide (CO)	38.4 lb/hr	92-A-571-S3
	16.7 ton/yr	92-A-571-S3

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ Limit is for emissions from gas.

⁽³⁾ Limit is for emissions from oil.

⁽⁴⁾ Limit is for emissions from gas and oil combined

Operational Limits & Requirements

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

Operating Limits:

A. This turbine shall be fired by natural gas or fuel oil #1 or #2 only.

B. This turbine shall be operated a maximum of 7 hours and 15 minutes per day when fired by fuel oil.

- C. This turbine shall be operated a maximum of 200 hours per rolling 12 month period when fired by fuel oil.
- D. This turbine shall be operated a maximum of 850 hours per rolling 12 month period.
- E. The sulfur content of any fuel fired in this turbine shall not exceed 0.5% by weight.
- F. The inlet fogger on this turbine is allowed to operate anytime the turbine is in operation.

Authority for Requirement: DNR PSD Construction Permit 92-A-571-S3

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Record the number of hours this turbine is fired by each fuel. Calculate and record daily, monthly and rolling 12-month totals.
- B. Record the sulfur content of any fuel fired in this turbine, in weight percent.
- C. Determine compliance with the NO_x and SO₂ limits cited above by applying the latest emission factors with the amount of fuel consumed for each turbine. Calculate and record monthly and 12 month rolling totals.

Authority for Requirement: DNR PSD Construction Permit 92-A-571-S3

NSPS Subpart GG Requirements:

This combustion turbine is subject to Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines) of the New Source Performance Standards (NSPS) with respect to the testing of fuels for sulfur content as required by 40 CFR 60.334 and 60.335.

Authority for Requirement: DNR PSD Construction Permit 92-A-571-S3
 40 CFR 60 Subpart GG
 567 IAC 23.1(2)"aa"

NESHAP Subpart ZZZZ Requirements:

The black start engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(i) this black start engine, located at a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6600, 63.6625, and Table 2c to Subpart ZZZZ

- A. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- B. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.

- C. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- D. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification and Reporting Requirements 40 CFR 63.6645 and 6650

- A. An initial notification is not required per 40 CFR 63.6645(a)(5).
- B. Comply with applicable notification requirements in 40 CFR 63.6645 and reporting requirements in 40 CFR 63.6650.

Recordkeeping Requirements 40 CFR 63.6655

- A. Comply with applicable recordkeeping requirements in 40 CFR 63.6655.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37
 Stack Opening, (inches): 96 x 120
 Exhaust Flow Rate (scfm): 144,350
 Exhaust Temperature (°F): 960
 Discharge Style: Vertical
 Authority for Requirement: DNR PSD Construction Permit 92-A-571-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 04

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 04	Combustion Turbine #4	-	Natural Gas & Fuel Oil	288 MMBtu/hr	92-A-572-S3
EU 04A	Diesel Starter Engine for CT #4	-	Diesel	40 gal/hr	

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	92-A-572-S3; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	4.8 lb/hr ⁽²⁾	92-A-572-S3
	12.5 lb/hr ⁽³⁾	92-A-572-S3
	4.32 ton/yr ⁽⁴⁾	92-A-572-S3
Particulate Matter (PM)	4.8 lb/hr ⁽²⁾	92-A-572-S3
	12.5 lb/hr ⁽³⁾	92-A-572-S3
	4.32 ton/yr ⁽⁴⁾	92-A-572-S3
Sulfur Dioxide (SO ₂)	1.8 lb/hr ⁽²⁾	92-A-572-S3
	8.8 lb/hr ⁽³⁾	92-A-572-S3
	2.81 ton/yr ⁽⁴⁾	92-A-572-S3
Nitrogen Oxides (NO _x)	95.0 lb/hr	92-A-572-S3
	41.33 ton/yr	92-A-572-S3
Volatile Organic Compounds (VOC)	13.9 lb/hr	92-A-572-S3
	6.05 ton/yr	92-A-572-S3
Carbon Monoxide (CO)	38.4 lb/hr	92-A-572-S3
	16.7 ton/yr	92-A-572-S3

⁽¹⁾ An exceedance of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ Limit is for emissions from gas.

⁽³⁾ Limit is for emissions from oil.

⁽⁴⁾ Limit is for emissions from gas and oil combined

Operational Limits & Requirements

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

Operating Limits:

A. This turbine shall be fired by natural gas or fuel oil #1 or #2 only.

B. This turbine shall be operated a maximum of 7 hours and 15 minutes per day when fired by fuel oil.

- C. This turbine shall be operated a maximum of 200 hours per rolling 12 month period when fired by fuel oil.
- D. This turbine shall be operated a maximum of 850 hours per rolling 12 month period.
- E. The sulfur content of any fuel fired in this turbine shall not exceed 0.5% by weight.
- F. The inlet fogger on this turbine is allowed to operate anytime the turbine is in operation.

Authority for Requirement: DNR PSD Construction Permit 92-A-572-S3

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Record the number of hours this turbine is fired by each fuel. Calculate and record daily, monthly and rolling 12-month totals.
- B. Record the sulfur content of any fuel fired in this turbine, in weight percent.
- C. Determine compliance with the NO_x and SO₂ limits cited above by applying the latest emission factors with the amount of fuel consumed for each turbine. Calculate and record monthly and 12 month rolling totals.

Authority for Requirement: DNR PSD Construction Permit 92-A-572-S3

NSPS Subpart GG Requirements:

This combustion turbine is subject to Subpart A (General Provisions) and Subpart GG (Standards of Performance for Stationary Gas Turbines) of the New Source Performance Standards (NSPS) with respect to the testing of fuels for sulfur content as required by 40 CFR 60.334 and 60.335.

Authority for Requirement: DNR PSD Construction Permit 92-A-572-S3
 40 CFR 60 Subpart GG
 567 IAC 23.1(2)"aa"

NESHAP Subpart ZZZZ Requirements:

The black start engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(i) this black start engine, located at a major source, is an existing stationary RICE as it was constructed prior to December 19, 2002.

Compliance Date

Per 63.6595(a)(1) you must comply with the provisions of Subpart ZZZZ that are applicable by May 3, 2013.

Operation and Maintenance Requirements 40 CFR 63.6600, 63.6625, and Table 2c to Subpart ZZZZ

- A. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
- B. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.

- C. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- D. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Notification and Reporting Requirements 40 CFR 63.6645 and 6650

- A. An initial notification is not required per 40 CFR 63.6645(a)(5).
- B. Comply with applicable notification requirements in 40 CFR 63.6645 and reporting requirements in 40 CFR 63.6650.

Recordkeeping Requirements 40 CFR 63.6655

- C. Comply with applicable recordkeeping requirements in 40 CFR 63.6655.

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 37
 Stack Opening, (inches): 96 x 120
 Exhaust Flow Rate (scfm): 144,350
 Exhaust Temperature (°F): 960
 Discharge Style: Vertical
 Authority for Requirement: DNR PSD Construction Permit 92-A-572-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 13

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 13	Emergency Stationary RICE Generator	-	Fuel Oil	602 bhp	05-A-934

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	05-A-934; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	0.57 lb/hr	05-A-934
Particulate Matter (PM)	0.57 lb/hr	05-A-934
Sulfur Dioxide (SO ₂)	2.5 lb/MMBtu	05-A-934; 567 IAC 23.3(3)"b"(2)

⁽¹⁾ An exceedance of the indicator opacity of 20% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

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

Operating Limits:

- A. This emergency generator shall not operate more than 876 hours per rolling twelve-month period and only for emergency situations.
- B. The Sulfur content of the fuel shall not exceed 0.5% by weight.

Authority for Requirement: DNR Construction Permit 05-A-934

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall record the amount of time this generator operates each time this generator is operated. Calculate a monthly and rolling twelve-month total.
- B. The owner or operator shall provide a vendor certification of the Sulfur content of the fuel oil used in this boiler.

Authority for Requirement: DNR Construction Permit 05-A-934

NESHAP Subpart ZZZZ Requirements:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

According to 40 CFR 63.6590(b)(1)(i), a new emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is not subject to the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A except for initial notification requirements of 40 CFR 63.6645(f).

Authority for Requirement: DNR Construction Permit 05-A-934
40 CFR Part 63 Subpart ZZZZ
567 IAC 23.1(4)"cz"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 10.33
Stack Opening, (inches, dia.): 6
Exhaust Flow Rate (scfm): 1,072
Exhaust Temperature (°F): 1,004
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 05-A-934

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 16

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 16	House Heat Boiler	-	Natural Gas	15 MMBtu/hr	00-A-859

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	00-A-859; 567 IAC 23.3(2)"d"
Particulate Matter (PM)	0.6 MMBtu/hr	00-A-859; 567 IAC 23.3(2)"b"
Sulfur Dioxide (SO ₂)	500 ppm	00-A-859; 567 IAC 23.3(3)"e"

⁽¹⁾ An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Requirements

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

Operating Limits:

- A. This emission unit shall use natural gas only.
- B. The owner or operator shall send a certification to the Department stating that this emission unit will burn only natural gas.

Authority for Requirement: DNR Construction Permit 00-A-859

Reporting and Record keeping:

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The amount of fuel used on a monthly basis.
- B. A copy of all excess emission reports required for Subpart Dc. Per the reduced recordkeeping for Subpart Dc the facility may report excess emissions (or lack thereof) on an annual frequency. It should be noted that per permit Condition 7 (of construction permit 00-A-859) the facility is also required to orally notify the DNR field office of excess emissions within 8 hours and submit a written report within 7 days.

Authority for Requirement: DNR Construction Permit 00-A-859

NSPS Subpart Dc Requirements:

This emission unit is subject to Subpart A (General Provisions) and Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) of the New Source Performance Standards (NSPS). Failure to specifically include all of the requirements of the NSPS in this permit does not relieve the owner or operator of those requirements.

Authority for Requirement: DNR Construction Permit 00-A-859
40 CFR 60 Subpart Dc
567 IAC 23.1(2)"III"

NESHAP Subpart DDDDD Requirements:

This unit is subject to 40 CFR 63 Subpart DDDDD: National Emission Standard for Hazardous Air Pollutants: Industrial, Commercial and Institutional Boilers and Process Heaters

Authority for Requirement: 40 CFR 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 171.8
Stack Opening, (inches, dia.): 23
Exhaust Flow Rate (scfm): 32,000
Exhaust Temperature (°F): 500
Discharge Style: Unobstructed Vertical
Authority for Requirement: DNR Construction Permit 00-A-859

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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: EP 17

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Monitoring Equipment	Raw Material	Rated Capacity	Construction Permit
EU 17	Main Plant Boiler	CE 1: Electrostatic Precipitator	ME1-1, ME1-2, ME1-3, ME1-4, ME1-5	Coal, Natural Gas, Fuel Oil	2,077 MMBtu/hr	93-A-390-S12
		CE 47: Low NOx Burners				
		CE 46: Activated Carbon Injection, Calcium Bromide Injection, Liquid Flue Gas Conditioning				
		CE 45: Sulfur Burner				

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40%	93-A-390-S12; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	1,161.0 lb/hr	93-A-390-S12
	5,085.4 ton/yr	93-A-390-S12
	0.559 lb/MMBtu	93-A-390-S12
Particulate Matter (PM – Federal)	0.030 lb/MMBtu ⁽¹⁾⁽²⁾⁽³⁾ (30-day rolling average)	93-A-390-S12; Consent Decree
Particulate Matter (PM – State)	0.8 lb/MMBtu	93-A-390-S12; 567 IAC 23.3(2)"b"(1)
Sulfur Dioxide (SO ₂)	SO ₂ Allowances	40 CFR Part 97 (see Appendix D)
	9,882.0 lb/hr (3-hour rolling average)	93-A-390-S12
	43,283.2 ton/yr	93-A-390-S12
	5.032 lb/MMBtu (3-hour rolling average)	93-A-390-S12
	0.750 lb/MMBtu ⁽⁴⁾⁽⁵⁾	93-A-390-S12; Consent Decree
Nitrogen Oxides (NO _x)	885.0 lb/hr (3-hour rolling average)	93-A-390-S12
	3,876.3 ton/yr	93-A-390-S12
	0.44 lb/MMBtu (30-day rolling average)	93-A-390-S12
	NO _x Allowances	40 CFR Part 97 (see Appendix D)
	0.180 lb/MMBtu ⁽⁵⁾⁽⁶⁾	93-A-390-S12; Consent Decree
Carbon Monoxide (CO)	200.3 lb/hr	93-A-390-S12
	877.3 ton/yr	93-A-390-S12
	0.102 lb/MMBtu	93-A-390-S12

- (1) As required by Consent Decree Paragraph 144, the emission limit is in effect until Unit 1 (EU 17) is either Retired or Refueled within their meanings in the Consent Decree which are:
- "Retire": As defined in Consent Decree Paragraph 62, means to permanently shut down a unit such that it cannot physically or legally burn a fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emission inventory and amending all applicable permits so as to reflect the permanent shutdown status of the unit.
 - "Refuel": As defined in Consent Decree Paragraph 59, means that a unit is "Refueled to Natural Gas" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- (2) As defined by Consent Decree Paragraph 6, the 30-day rolling average emission rate shall be determined by calculating an arithmetic average of all hourly emission rates in lb/MMBTU for the current Unit Operating Day and all hourly emission rates in lb/MMBTU for the previous 29 Unit Operating Days. A new 30-day rolling average emission rate shall be calculated for each new Unit Operating Day. Each 30-day rolling average emission rate shall include all emissions that occur during all periods within any Unit Operating Day, including emissions from Startup, Shutdown, and Malfunction (SSM).
- (3) As defined by Consent Decree Paragraph 75, a Unit Operating Day is any day on which the boiler fires a fossil fuel.
- (4) As required by Consent Decree Paragraph 120, the emission limit is in effect until Unit 1 (EU 17) is either Retired or Refueled within their meanings in the Consent Decree.
- (5) As defined by Consent Decree Paragraph 5, the 12-month rolling average emission rate shall be determined by calculating an average of all hourly emission rates in lb/MMBTU for the current month and all hourly emission rates in lb/MMBTU from the previous eleven (11) Unit Operating Months. A new 12-month rolling average emission rate shall be calculated for each new complete month in accordance with the provisions of the Consent Decree. Each 12-month rolling average emission rate shall include all emissions that occur during all periods of operating, including SSM. For purposes of calculating a 12-month rolling average emission rate, a Unit Operating Month means any month during which the boiler fires fossil fuel.
- (6) As required by Consent Decree Paragraph 96, the emission limit is in effect until Unit 1 (EU 17) is either Retired or Refueled within their meanings in the Consent Decree.

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. At a minimum, the facility shall monthly record the amount of each fuel fired in this boiler.
- B. The facility shall record the amount of oil used per month, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. Whenever oil and coal are used simultaneously, the owner or operator shall maintain a record of the ratio of oil to coal used.
- D. The owner or operator shall maintain the following records of NO_x emissions:
 - i. 30-day rolling average in lbs/MMBtu;
 - ii. 12-month rolling average in lbs/MMBtu.
- E. The owner or operator shall maintain the following records of SO₂ emissions:
 - i. 3-hour rolling average in lbs/MMBtu; and,
 - ii. 12-month rolling average in lbs/MMBtu.
- F. The owner or operator shall maintain a record of 30-day rolling average in lbs/MMBtu of PM (filterable) emissions.
- G. The owner or operator shall maintain a record of 12-month rolling totals in tons of NO_x, SO₂, and CO emissions.
- H. The control equipment, CE 1, CE 47, CE 46, and CE 45, associated with the emission unit, Boiler #1 (EU 17), shall be inspected and maintained according to the manufacturer's specifications and maintenance schedule.
- I. The owner or operator shall maintain a log of all maintenance and inspection activities performed on the control equipment associated with the emission unit, Boiler #1. This log shall include, but is not limited to:

- i. The date and time any inspection and/or maintenance was performed on the emission unit and/or control equipment;
 - ii. Any issue(s) identified during the inspection and the date each issue(s) was resolved; and,
 - iii. Any issue(s) addressed during the maintenance activities and the date each issue(s) was resolved.
- J. As required by Consent Decree Paragraph 96, the owner or operator shall continuously operate the Low NOx Combustion System (CE 47) until such time Unit 1 (EU 17) is either Retired or Refueled (as defined in the Consent Decree) so that Unit 1 (EU 17) achieves and maintains the NOx emission rate listed in this permit.
- K. As required by Consent Decree Paragraph 86, the owner or operator shall either "Retire" or "Refuel" Boiler #1 (EU 17) by December 31, 2021. These terms are defined in the Consent Decree as:
 - i. Retire: Per paragraph 62 of the Consent Decree means to permanently shut down a unit such that the unit cannot physically or legally burn fossil fuel and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil-fuel fired electric generating unit, including removing the unit from Iowa's air emissions inventory, and amending all applicable permits so as to reflect the permanent shutdown status of each unit.
 - ii. Refuel: Per Paragraph 59 of the Consent Decree means that a unit is "*Refueled to Natural Gas*" which according to Consent Decree Paragraph 60 means the modification of a unit such that the modified unit generates electricity solely through the combustion of natural gas.
- L. As required by Consent Decree Paragraph 86, if the owner or operator Refuels Unit 1 (EU 17), the owner or operator shall continuously operate the Low NOx Combustion System (CE 47) at the Refueled Unit and shall obtain any and all required Clean Air Act (CAA) permit(s) for the Refueled Unit, including but not limited to an appropriate permit pursuant to CAA Subchapter 1, Parts C and D, and pursuant to the applicable Iowa State Implementation Plan (SIP) provisions implementing CAA Subchapter 1.
- M. As required by Consent Decree Paragraphs 137 and 138, until such time a unit has been refueled or repowered the owner or operator shall:
 - i. Continuously operate each PM control device to maximize emission reductions at all times when the unit is in operation. Notwithstanding the foregoing sentence, the owner or operator is not required to continuously operate an electrostatic precipitator (ESP) on any unit if a baghouse is installed and operating to replace the PM control device function of the ESP on that unit.
 - ii. Except as required during correlation testing under 40 CFR Part 60, Appendix B, PS11 and QA/QC requirements under Appendix F, Procedure 2, the owner or operator shall, at a minimum, ensure that to the extent reasonably practicable:
 - (a) Where the control device is an ESP, each section of each ESP is fully energized, and where the control device is a baghouse, each compartment, except for any compartment specifically designated and designed as a spare compartment, of each baghouse is operational.
 - (b) Any failed ESP section or baghouse compartment is repaired at the next planned outage (or unplanned outage of sufficient length).

- (c) Where applicable, the automatic control systems on each ESP are operated to maximize PM collection efficiency.
 - (d) Each opening in the casings, ductwork, and expansion joints for each ESP and each baghouse is inspected and repaired during the next planned unit outage (or unplanned outage of sufficient length) to minimize air leakage.
 - (e) Where applicable, the power levels delivered to each ESP are maintained consistent with manufacturer's specifications, the operational design of the unit and good engineering practices.
 - (f) Where applicable, the plate-cleaning and discharge-electrode-cleaning systems for each ESP are optimized by varying the cycle time, cycle frequency, rapper-vibrator intensity, and number of strikes per cleaning event.
 - (g) For each unit with one (1) or more baghouses, a bag leak detection program is developed and implemented to ensure that leaking bags are promptly replaced.
- N. As required by Consent Decree Paragraph 144, the owner or operator shall "continuously operate" the ESP (CE 1) until Boiler #1 (EU 17) is either "Retired" or "Refueled" as defined by the Consent Decree. Per Paragraph 15 of the Consent Decree, the term "continuously operate" means the ESP shall be operated at all times when Boiler #1 (EU 17) is in operation consistent with the technological limitations, manufacturer's specifications, good engineering and maintenance practices, and good air pollution control practices for minimizing emissions [as defined in 40 CFR §60.11(d)]. Upon termination of the Consent Decree, the owner or operator shall submit a report in coordination with its Title V reporting schedule that includes the following information regarding the ESP (CE 1):
- i. All information necessary to determine compliance during the reporting period with:
 - (a) The obligation to optimize PM emissions controls by following the requirements of Condition M. ii. above.
- O. Upon termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Condition 1a. (Consent Decree Emission Limits). At a minimum, the information in the reports shall include all information necessary to determine compliance during the reporting period with:
- i. The 12-month rolling average emission rate for SO₂;
 - ii. The 30-day rolling average emission rate for PM; and,
 - iii. The 12-month rolling average emission rate for NO_x.

Authority for Requirement: DNR Construction Permit 93-A-390-S12

NESHAP Subpart UUUUU Requirements:

This unit is subject to 40 CFR 63 Subpart UUUUU: National Emission Standard for Hazardous Air Pollutants: Coal and Oil-Fired Electric Utility Steam Generating Units

Authority for Requirement: DNR Construction Permit 93-A-390-S12
40 CFR 63 Subpart UUUUU

Acid Rain Requirements:

This is an affected source under 40 CFR 72, 73, 75, 76, 77 and 78 definitions as emission units at this source are subject to the acid rain emission reduction requirements or the acid rain emission

limitations, as adopted by the Department by reference (567 IAC 22.120 – 567 IAC 22.148). This emission unit is subject to the SO₂ allowance allocation, NO_x emission limitations, and monitoring provisions of the federal acid rain program. See Appendix D for the full text of the Acid Rain Permit.

Authority for Requirement: DNR Construction Permit 93-A-390-S12
40 CFR 72, 73, 75, 76, 77 and 78
567 IAC 22.120 – 567 IAC 22.148

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 306
Stack Opening, (inches, dia.): 141
Exhaust Flow Rate (scfm): 460,100
Exhaust Temperature (°F): 400
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-390-S12

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant - CO

Stack Test to be Completed by – June 3, 2020
Test Method - 40 CFR 60, Appendix A, Method 10
Authority for Requirement: 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM₁₀)

1st Stack Test to be Completed by – June 3, 2019
2nd Stack Test to be Completed between – December 3, 2020 and December 3, 2021
Test Method - 40 CFR 51, Appendix M, 201A with 202 or approved alternative
Authority for Requirement - 567 IAC 22.108(3)

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. Results of the test 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)

Continuous Emissions Monitoring:

A. The following monitoring systems are required:

- *Opacity:*

In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere except as provided under 40 CFR §60.45(b).

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

Per 40 CFR §60.45(b)(5), the owner or operator may petition the Administrator (in writing) to install a PM CEMS as an alternative to the CEMS for monitoring opacity emissions.

- *SO₂:*

In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring sulfur dioxide (SO₂) emissions, except as provided by 40 CFR §60.45(b).

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

- *NO_x:*

In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a continuous emission monitoring system (CEMS) and record the output of the system, for measuring nitrogen oxide (NO_x) emissions, except as provided by 40 CFR §60.45(b).

The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

This monitor shall also be used to demonstrate compliance with the non-NSPS emission standards in this permit.

- *O₂ or CO₂:*
In accordance with 40 CFR §60.45(a), the owner or operator shall install, calibrate, maintain, and operate a CEMS and record the output of the system, for measuring the oxygen (O₂) or carbon dioxide (CO₂) content of the flue gases at each location where SO₂ or NO_x emissions are monitored.
- *Flowmeter:*
The owner or operator shall install, certify, operate, and maintain a continuous flow monitoring system meeting the requirements of 40 CFR 60, Appendix B, Performance Specification 6 and 40 CFR 60, Appendix F, Procedure 1. In addition, the owner or operator shall record the output of the system, for measuring the volumetric flow of exhaust gases discharged to the atmosphere or

Alternatively, data from a continuous flow monitoring system certified according to the requirements of 40 CFR §75.20(c) and 40 CFR 75, Appendix A, and continuing to meet the applicable quality control and quality assurance requirements of 40 CFR §75.21 and 40 CFR 75, Appendix B, may be used.
- *Particulate Matter:*
As required by Consent Decree Paragraph 150, the owner or operator shall install, correlate, maintain, and operate a PM CEMS on the stack (EP 17). The following requirements shall apply:
 - 1) As required by Consent Decree Paragraph 150, each PM CEMS shall:
 - (a) Comprise a continuous particle mass monitoring measuring filterable particulate matter concentration (directly or indirectly) on an hourly average basis and a diluent monitor used to convert the concentration to units expressed in lb/MMBTU.
 - (b) Be appropriate for the anticipated stack conditions and capable of measuring filterable PM concentrations on an hourly average basis and the owner or operator shall maintain an electronic database that stores the hourly average emission values (in lb/MMBTU) of all PM CEMS data for at least five (5) years.
 - (c) Operate at all times the unit it serves is operating except for periods of monitor malfunction, maintenance, or repair.
 - 2) As required by Consent Decree Paragraph 153, the owner or operator shall:
 - (a) Use criteria set forth in 40 CFR 60, Appendix B, Performance Specification 11 (PS11) and 40 CFR 60, Appendix F, Procedure 2. The specifications of 40 CFR 60, Appendix F (QA/QC) shall apply.
 - (b) Conduct relative correlation audits no less frequently than once every three (3) calendar years or twelve (12) operating quarters, whichever comes first, or earlier if the characteristics of the PM or gas change such that the PM CEMS measurement technology is no longer valid.
 - 3) As required by Consent Decree Paragraph 153, the owner or operator may use the correlation method specified in 40 CFR §63.10010(i) [at the temperature specified in 40 CFR Part 60, Appendix A-3] for purposes of correlating the PM CEMS under the Consent Decree. Diluent capping (i.e., 5% CO₂) will be applied to the PM rate data for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.

- 4) As required by Consent Decree Paragraph 152, the owner or operator shall follow the Quality Assurance/Quality Control (QA/QC) protocol approved by EPA for each PM CEMS.
 - 5) As required by Consent Decree Paragraph 154, the owner or operator shall:
 - (a) Ensure compliance with the PM CEMS installation and correlation plans submitted to and approved by EPA in accordance with Consent Decree Paragraphs 151 and 152.
 - (b) Ensure performance specification tests on the PM CEMS are conducted.
 - (c) Operate the PM CEMS in accordance with the approved plan and QA/QC protocol.
 - 6) As required by Consent Decree Paragraph 148(c), the owner or operator shall conduct condensable PM testing each time a relative correlation audit is performed for the PM CEMS and stack sampling for filterable PM shall be performed pursuant to PS11. When PM stack tests are required, the owner or operator shall:
 - (a) Conduct the PM stack test using EPA Method 5 (filterable portion only) or any alternate method approved by EPA under the terms of the Consent Decree.
 - (b) Conduct the condensable PM stack test using the reference methods and procedures set for in 40 CFR 51, Appendix M, Method 202.
 - (c) Ensure:
 - Each stack test consists of three (3) separate runs performed under representative operating conditions not including SSM.
 - The sampling time for each run shall be at least sixty (60) minutes and the volume of each run shall be at least 0.85 dry standard cubic meters (30 dry standard cubic feet).
 - The PM emission rate from the stack test results is calculated in accordance with 40 CFR §60.8(f).
 - The results of each PM stack test is submitted to the appropriate regulatory agency (i.e. the Department or Linn County).
- B. The CEMS required in Condition A above for SO₂, NO_x, and either O₂ or CO₂ shall be operated and the data recorded during all periods of operation including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
- C. As required by Consent Decree Paragraph 127, the following requirements apply to the SO₂ CEMS for the Consent Decree emission standards in this permit:
- (1) The owner or operator shall use SO₂ emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.
 - (2) The SO₂ emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.
 - (3) Diluent capping (i.e., 5% CO₂) shall be applied to the SO₂ emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.

- D. As required by Consent Decree Paragraph 103, the following requirements apply to the NO_x CEMS for the Consent Decree emission standards in this permit:
- (1) The owner or operator shall use NO_x emission data obtained from a CEMS in accordance with the procedures of 40 CFR Part 75 for all thirty (30) day rolling average emission rates and all twelve (12) month rolling average emission rates.
 - (2) The NO_x emissions data is not required to be bias adjusted and the missing data substituting procedures of 40 CFR Part 75 shall not apply.
 - (3) Diluent capping (i.e., 5% CO₂) shall be applied to the NO_x emission rate for any hours where the measured CO₂ concentration is less than 5% following the procedures in 40 CFR Part 75, Appendix F, Section 3.3.4.1.
- E. The following data requirements shall apply to all CEMS for non-NSPS and non-Consent Decree NO_x and SO₂ tons per 12-month rolling total emission standards in this permit:
- (1) The CEMS required by this permit shall be operated and data recorded during all periods of operation of the emission unit except for CEM breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.
 - (2) The 1-hour average SO₂, and NO_x emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
 - (3) For each hour of missing emission data for NO_x or SO₂, the owner or operator shall substitute data by:
 - (I) For SO₂:
 - (i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
 - (a) For a missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
 - (b) For a missing data period greater than 24 hours, substitute the greater of:
 - The 90th percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
 - The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
 - (ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
 - (a) For a missing data period of less than or equal to eight (8) hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
 - (b) For the missing data period of more than eight (8) hours, substitute the greater of:
 - The 95th percentile hourly pollutant concentration recorded by a

pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or

- The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(iii) If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.

(II) For NO_x:

(i) If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(a) For a missing data period less than or equal to 24 hours, substitute the arithmetic average recorded by a monitoring system during the previous 2,160 quality assured monitor operating hours at the corresponding unit load range or operational bin as determined using the procedure outlined in Condition G.

(b) For a missing data period greater than 24 hours, substitute the greater of:

- The 90th percentile emission rate recorded by a monitoring system during the previous 2,160 quality assured monitor operating hours at the corresponding unit load range or operational bin as determined using the procedure outline in Condition G.; or
- The average of the hourly emission rates recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(ii) If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(a) For a missing data period of less than or equal to eight (8) hours, substitute the average emission rate recorded by the monitoring system during the previous 2,160 quality assured monitor operating hours at the corresponding unit load range or operational bin as determined using the procedure outlined in Condition G.

(b) For the missing data period of more than eight (8) hours, substitute the greater of:

- The 95th percentile hourly emission rate recorded by a monitoring system during the previous 2,160 quality assured monitor operating hours at the corresponding unit load range or operational bin as determined using the procedure outlined in Condition 6.E.; or
- The average of the hourly emission rates recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

(iii) If no quality assured emission rate data exist at either the corresponding load

range (or a higher load range) or at the corresponding operational bin, the owner or operator shall substitute using the average of the hourly emission rates recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.

- (iv) If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.

F. If requested by the Department, the owner/operator shall coordinate the quarterly cylinder gas audits with the Department to afford the Department the opportunity to observe these audits. The relative accuracy test audits shall be coordinated with the Department.

G. The following procedure shall be used by the owner or operator to establish unit load ranges or operational bins for non-NSPS and non-Consent Decree NO_x tons per 12-month rolling total emission limits:

- (1) The owner or operator shall establish ten (10) operating load ranges defined in terms of percent of the maximum hourly average gross load of the unit [in gross megawatts (MW_{ge})] as shown in the table below (Do not use integrated hourly gross load in MW-hr):

Operating Load Range	Percent of maximum hourly gross load or maximum hourly gross steam load (%)
1	0 – 10
2	> 10 – 20
3	> 20 – 30
4	> 30 – 40
5	> 40 – 50
6	> 50 – 60
7	> 60 – 70
8	> 70 – 80
9	> 80 – 90
10	> 90

- (2) Beginning with the first hour of unit operation after the installation and certification of the NO_x CEMS, for each hour of unit operation record a number one (1) through ten (10) that identifies the operating load range corresponding to the integrated hourly gross load of the emission unit recorded for each unit operating hour.
- (3) Beginning with the first hour of unit operation after the installation and certification of the NO_x CEMS and continuing thereafter, the data acquisition and handling system must be capable of calculating and recording the following information for each unit operating hour of missing NO_x data within each identified load range during the shorter of the previous 2,160 quality assured monitor operating hours (on a rolling basis) or all previous quality assured operating hours:
 - The average of the hourly NO_x emission rates (in lb/MMBTU) reported by the NO_x CEMS.
 - The 90th percentile value of hourly NO_x emission rates (in lb/ MMBTU).
 - The 95th percentile value of hourly NO_x emission rates (in lb/ MMBTU).

- The maximum value of the hourly NO_x emission rates (in lb/ MMBTU).
- (4) Calculate all NO_x CEMS data averages, maximum values, and percentile values determined by this procedure using bias adjusted values in the load ranges.
- (5) When a bias adjustment is necessary for the NO_x CEMS, apply the adjustment factor to all NO_x CEMS data values placed in the load ranges.

Authority for Requirement: DNR Construction Permit 93-A-390-S12

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 test 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

See Appendix B for CAM Plan for CE 1.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Numbers: EP 18, EP 18-1

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 18	EU 18	Ash Hydroveyor	Water Delivery	Fly Ash	10.3 tons/hr	-
EP 18-1	EU 18-1	Ash Hydroveyor	Water Delivery	Fly Ash	10.3 tons/hr	-

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40%	567 IAC 23.3(2)"d"
Particulate Matter (PM)	0.1 gr/dscf	567 IAC 23.3(2)"a"

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 Numbers: EP 19, EP 19-1

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 19	EU 19	Dry Fly Ash Primary Vacuum Producer	CE 19: Baghouse	Fly Ash	10.0 tons/hr	95-A-597-S3
EP 19-1	EU 19-1	Dry Fly Ash Backup Vacuum Producer		Fly Ash	10.0 tons/hr	97-A-127-S2

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	95-A-597-S3; 97-A-127-S2; 567 IAC 23.3(2)"d"
Particulate Matter (PM ₁₀)	0.27 lb/hr	95-A-597-S3; 97-A-127-S2
Particulate Matter (PM)	0.1 gr/dscf	95-A-597-S3; 97-A-127-S2; 567 IAC 23.3(2)"a"

⁽¹⁾ An exceedance of the indicator opacity of 20% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator of the Fly Ash Handling System shall install permanent structures which will allow ready access to all baghouses of the Fly Ash Handling System.
- B. The Fly Ash Backup Vacuum Producer (EP 19-1) is permitted to operate only when the Fly Ash Handling Primary Vacuum Producer (EP 19) is not operating.
- C. The owner or operator of the Fly Ash Handling System shall establish a written Operation and Maintenance (O&M) Plan which includes a schedule for periodic inspection of the bags in all Fly Ash Handling System baghouses.
- D. The owner or operator of the Fly Ash Primary and Backup Vacuum Producer baghouse is required to maintain and operate the baghouse as specified by the manufacturer.
- E. The owner or operator of the Fly Ash Primary and Backup Vacuum Producer baghouse is required to install replacement bags which have a collection efficiency that is comparable to or higher than the efficiency of the bags installed during initial emissions compliance testing of the Fly Ash Primary Vacuum Producer (EP 19).
- F. The owner or operator is required to maintain on site concise, written records which include:
 - i. Date on which bags are replaced in Fly Ash Primary and Backup Vacuum Producer baghouse;
 - ii. Bag manufacturer's specifications for bags installed in Fly Ash Primary and Backup Vacuum Producer baghouse; and
 - iii. Log of maintenance and repairs performed on the Fly Ash Primary and backup Vacuum Producer baghouse.

Authority for Requirement: DNR Construction Permits 95-A-597-S3, 97-A-127-S2

Emission Point Characteristics

Each emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 23

Stack Opening, (inches, dia.): 10

Exhaust Flow Rate (scfm): 2,312

Exhaust Temperature (°F): 70

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permits 95-A-597-S3, 97-A-127-S2

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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)

Baghouse CE 19 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (> 40%) 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within eight hours to return the pressure drop to normal.
- Check the broken bag indicator. If the indicator shows a broken bag, corrective action will be taken within eight hours to repair or replace the bag.
- Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse.
- Pulse jet baghouse - check the air delivery system.
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannual

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: DNR Construction Permits 95-A-597-S3, 97-A-127-S2
567 IAC 22.108(3)

Emission Point ID Number: EP 20

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 20	Fly Ash Storage Silo	CE 20: Baghouse	Fly Ash	10.0 tons/hr	97-A-126

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	20%	97-A-126
Particulate Matter (PM ₁₀)	0.85 lb/hr	97-A-126
Particulate Matter (PM)	0.1 gr/scf	97-A-126; 567 IAC 23.3(2)"a"

Operational Limits

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

- A. The owner of operator of the Fly Ash Handling System shall establish a written Operation and Maintenance (O&M) Plan which includes a schedule for periodic inspection of the bags in the Fly Ash Handling System baghouse.
- B. The owner or operator of the Fly Ash Storage Silo baghouse is required to maintain and operate the baghouse as specified by the manufacturer.
- C. The owner or operator of the Fly Ash Storage Silo baghouse is required to install replacement bags which have a collection efficiency that is comparable to or higher than the efficiency of the bags installed during initial emissions compliance testing.

Authority for Requirement: DNR Construction Permit 97-A-126

Recordkeeping Requirements

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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Date on which bags are replaced in Fly Ash Storage Silo baghouse
- B. Bag manufacturer's specifications for bags installed in Fly Ash Storage Silo baghouse
- C. Log of maintenance and repairs performed on the Fly Ash Storage Silo baghouse.

Authority for Requirement: DNR Construction Permit 97-A-126

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

- Stack Height, (ft, from the ground): 127
- Stack Opening, (inches, dia.): 10
- Exhaust Flow Rate (scfm): 1,400
- Exhaust Temperature (°F): 70
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: DNR Construction Permit 97-A-126

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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)

Baghouse CE 20 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.
- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within eight hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse
- Pulse jet baghouse - check the air delivery system
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannually

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: DNR Construction Permit 97-A-126
567 IAC 22.108(3)

Emission Point ID Numbers: EP 20A, EP 20B

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 20A	EU 20A	Fly Ash Unloading	Telescoping Chute	Fly Ash	100.0 tons/hr	-
EP 20B	EU 20B	Fly Ash Loadout – C-Stone Production	Water Spray	Fly Ash	75 tons/hr	-

Applicable Requirements

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

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

Pollutant: Fugitive Dust

Emission Limit: 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 a nuisance. All persons 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"

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 Numbers: EP 22, EP 23

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 22	EU 22	Fuel Oil Tank	-	Fuel Oil	10,000 gallons	-
EP 23	EU 23	Fuel Oil Tank	-	Fuel Oil	10,000 gallons	-

Applicable Requirements

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

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

No applicable limits at this time.

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: EP 25

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 25 ⁽¹⁾	Coal Galley	CE 25: Fabric Filter Baghouse	Coal	500 tons/hr	93-A-386-S2

⁽¹⁾ This emission unit is also associated with the fugitive emission point EP 25A.

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	20% ⁽¹⁾	93-A-386-S2; 567 IAC 23.1(2)"v"; 40 CFR 60 Subpart Y
Particulate Matter (PM ₁₀)	1.63 lb/hr	93-A-386-S2
Particulate Matter (PM)	0.1 gr/dscf	93-A-386-S2; 567 IAC 23.3(2)"a"

⁽¹⁾ Less than 20% (as specified in NSPS Subpart Y)

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The maximum operating capacity for the equipment listed in this permit shall not exceed 375 tons per hour. This shall be based on a 24-hour average.
- B. Record and calculate the coal flow rate (tons/hr) average over a 24-hour period.

Authority for Requirement: DNR Construction Permit 93-A-386-S2

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12.

See appendix for the link to complete text of this standard

Authority for Requirement: DNR Construction Permit 93-A-386-S2
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 152
Stack Opening, (inches, dia.): 22
Exhaust Flow Rate (scfm): 9,500
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-386-S2

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Pollutant - Particulate Matter
Stack Test to be Completed by: June 3, 2020
Test Method: EPA Method 5 and 202
Authority for Requirement - 567 IAC 22.108(3)

Pollutant - PM₁₀
Stack Test to be Completed by: June 3, 2020
Test Method - 40 CFR 51, Appendix M, 201A with 202 or Approved Alternative
Authority for Requirement - 567 IAC 22.108(3)

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 test 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)

Baghouse CE 25 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

- The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

- Check and document the baghouse pressure drop. If the pressure drop falls out of the normal operating range, specified by the manufacturer, corrective action will be taken within eight hours to return the pressure drop to normal.

Maintain a written record of the observation and any action resulting from the inspection.

Monthly

- Check the cleaning sequence of the baghouse
- Pulse jet baghouse - check the air delivery system
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannually

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 25A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 25 ⁽¹⁾	Coal Galley (Fugitive)	-	Coal	500 tons/hr	-

⁽¹⁾ This emission unit is also associated with the controlled emission point EP 25.

Applicable Requirements

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

Emission Limit: 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 a nuisance. All persons 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"

Pollutant: Opacity

Emission Limits: Less Than 20%

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

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

See appendix for the link to complete text of this standard

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

Monitoring Requirements

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

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

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: EP 26

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 26	Coal Pile	-	Coal	4.63 acres	-

Applicable Requirements

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

Emission Limit: 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 create a nuisance. All person 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"

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: EP 27

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 27	Coal Dumper House (Track Hoppers)	CE 27: Baghouse	Coal	1,000 tons/hr	93-A-389-S1

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	20% ⁽¹⁾	93-A-389-S1; 567 IAC 23.1(2)"v"; 40 CFR 60 Subpart Y
Particulate Matter (PM ₁₀)	0.02 gr/dscf	93-A-389-S1
	1.97 lb/hr	93-A-389-S1
	8.62 tons/yr	93-A-389-S1
Particulate Matter (PM)	0.1 gr/dscf	93-A-389-S1; 567 IAC 23.3(2)"a"

⁽¹⁾ Less than 20% (as specified in NSPS Subpart Y)

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: DNR Construction Permit 93-A-389-S1
40 CFR 60 Subpart Y
567 IAC 23.1(2)"v"

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 13
Stack Opening, (inches, dia.): 23
Exhaust Flow Rate (scfm): 11,500
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-389-S1

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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)

Baghouse CE 27 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test

demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

Monthly

- Check the cleaning sequence of the baghouse
- Pulse jet baghouse - check the air delivery system
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannually

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 28

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 28	Coal Reclaim Tripper (Fugitive)	-	Coal	500 ton/hr	-

Applicable Requirements

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

Emission Limit: 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 create a nuisance. All person 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".

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: EP 29

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 29	Barge Hopper	-	Coal	1,000 ton/hr	-

Applicable Requirements

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

Emission Limit: 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 create a nuisance. All persons 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"

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 Numbers: EP 30, EP 31

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 30	EU 30 ⁽¹⁾	Crusher (Fugitive)	-	Coal	1,000 tons/hr	-
	EU 38 ⁽¹⁾	Crusher House Conveyor (Fugitive)	-	Coal	500 tons/hr	-
EP 31	EU 31 ⁽¹⁾	Transfer Equipment (Fugitive)	-	Coal	500 tons/hr	-
	EU 37 ⁽¹⁾	Transfer House Conveyor (Fugitive)	-	Coal	500 tons/hr	-

⁽¹⁾ This emission unit is also associated with emission point EP 100.

Applicable Requirements

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

Emission Limit: 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 a nuisance. All persons 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"

Pollutant: Opacity

Emission Limits: Less Than 20%

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

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that 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"
40 CFR Subpart Y

Monitoring Requirements

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

Opacity Monitoring

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

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: EP 40

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 40 ⁽¹⁾	Reclaim Hopper	CE 40: Baghouse	Coal	500 tons/hr	93-A-388-S3

⁽¹⁾ This emission unit is also associated with emission point EP 40A.

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	20% ⁽¹⁾	93-A-388-S3; 567 IAC 23.1(2)"v"; 40 CFR 60 Subpart Y
Particulate Matter (PM ₁₀)	3.14 lb/hr	93-A-388-S3
Particulate Matter (PM)	0.1 gr/dscf	93-A-388-S3; 567 IAC 23.3(2)"a"

⁽¹⁾ Less than 20% (as specified in NSPS Subpart Y)

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The maximum operating capacity for the equipment listed in this permit shall not exceed 375 tons per hour. This shall be based on a 24-hour average.
- B. Record and calculate the coal flow rate (tons / hr) average over a 24-hour period.

Authority for Requirement: DNR Construction 93-A-388-S3

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that 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"
40 CFR 60 Subpart Y

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 33
Stack Opening, (inches, dia.): 32
Exhaust Flow Rate (scfm): 18,300
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-388-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant - Particulate Matter (PM)
Stack Test to be Completed by: June 3, 2020
Test Method: EPA Method 5 and 202
Authority for Requirement - 567 IAC 22.108(3)

Pollutant - PM₁₀
Stack Test to be Completed by: June 3, 2020
Test Method - 40 CFR 51, Appendix M, 201A with 202 or Approved Alternative
Authority for Requirement - 567 IAC 22.108(3)

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 test 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)

Baghouse CE 40 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

Monthly

- Check the cleaning sequence of the baghouse
- Pulse jet baghouse - check the air delivery system
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannually

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 40A

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 40 ⁽¹⁾	Reclaim Hopper (Fugitive)	-	Coal	500 tons/hr	-

⁽¹⁾ This emission unit is also associated with emission point EP 40.

Applicable Requirements

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

Emission Limit: 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 a nuisance. All persons 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"

Pollutant: Opacity

Emission Limits: Less Than 20%

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

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that 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"
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 for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

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: EP 44

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 44	Natural Gas Heater (Indirect Heating)	-	Natural Gas	2 MMBtu/hr	-

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40%	567 IAC 23.3(2)"d"
Particulate Matter (PM)	0.8 lb/MMBtu	567 IAC 23.3(2)"b"
Sulfur Dioxide (SO ₂)	500 ppmv	567 IAC 23.3(3)"e"

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

No applicable limits at this time.

NESHAP Subpart DDDDD Requirements

This unit is subject to 40 CFR 63 Subpart DDDDD: National Emission Standard for Hazardous Air Pollutants: Industrial, Commercial and Institutional Boilers and Process Heaters
See appendix for the link to complete text of this standard

Authority for Requirement: 40 CFR 63 Subpart DDDDD

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: EP 100

Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EP 100	EU 30 ⁽¹⁾	Crusher	CE 100: Baghouse	Coal	1,000 tons/hr	93-A-387-S3
	EU 38 ⁽¹⁾	Crusher House Conveyor		Coal	500 tons/hr	
	EU 31 ⁽²⁾	Transfer Equipment		Coal	500 tons/hr	
	EU 37 ⁽²⁾	Transfer House Conveyor		Coal	500 tons/hr	

⁽¹⁾ This emission unit is also associated with emission point EP 30.

⁽²⁾ This emission unit is also associated with emission point EP 31.

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	20% ⁽¹⁾	93-A-387-S3; 567 IAC 23.1(2)"v"; 40 CFR 60 Subpart Y
Particulate Matter (PM ₁₀)	3.05 lb/hr	93-A-387-S3
Particulate Matter (PM)	0.1 gr/dscf	93-A-387-S3; 567 IAC 23.3(2)"a"

⁽¹⁾ Less than 20% (as specified in NSPS Subpart Y)

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. The maximum operating capacity for each of the equipment EU 30, EU 38, EU 31, and EU 37 shall not exceed 375 tons per hour. This shall be based on a 24-hour average.
- B. Record and calculate the coal flow rate (tons/hr) average for each of the equipment EU 30, EU 38, EU 31, and EU 37 over a 24-hour period.

Authority for Requirement: DNR Construction Permit 93-A-387-S3

NSPS Subpart Y Requirements

This unit is subject to 40 CFR 60 Subpart Y: Standards of Performance for Coal Preparation and Processing Plants

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. 40 CFR 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 that is based on the concentration of a pollutant in the gases discharged to the atmosphere. 40 CFR 60.12

Authority for Requirement: DNR Construction Permit 93-A-387-S3
567 IAC 23.1(2)"v"
40 CFR 60 Subpart Y

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 33
Stack Opening, (inches, dia.): 32
Exhaust Flow Rate (scfm): 17,750
Exhaust Temperature (°F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 93-A-387-S3

The temperature and flowrate 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 either the temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

Monitoring Requirements

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

Stack Testing:

Pollutant - Particulate Matter (PM)
Stack Test to be Completed by: June 3, 2020
Test Method: EPA Method 5 and 202
Authority for Requirement - 567 IAC 22.108(3)

Pollutant - PM₁₀

Stack Test to be Completed by: June 3, 2020

Test Method - 40 CFR 51, Appendix M, 201A with 202 or Approved Alternative

Authority for Requirement - 567 IAC 22.108(3)

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 test 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)

Baghouse CE 100 Agency Operation & Maintenance Plan

Monitoring Guidelines

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

General

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

Weekly

The facility shall check for visible emissions weekly during a period when the emission unit on this emission point is at or near full capacity and record the observation. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Visible emissions 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 (equal to or greater than 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 a visible emission observation or an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake visible observations or Method 9 opacity observations 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.

Monthly

- Check the cleaning sequence of the baghouse
- Pulse jet baghouse - check the air delivery system
- Check hopper functions and performance

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Quarterly

- Thoroughly inspect bags for leaks and wear. (Look for obvious holes or tears in the bags.)

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Bag replacement should be documented by identifying the date, time and location of the bag in relationship to the other bags. The location should be identified on an overhead drawing of the bag layout in the baghouse. Maintain a written record of the inspection and any action resulting from the inspection.

Semiannually

- Inspect every six months all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods.

If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight hours. Maintain a written record of the inspection and any action resulting from the inspection.

Record Keeping and Reporting

Maintenance and inspection records will be kept for five years and available upon request.

Quality Control

The filter equipment will be operated and maintained according to the manufacturer recommendations.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP 101

Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EU 101	AC Silo	CE 101: Bin Vent Filter	Activated Carbon	2,970 cf	14-A-059

Applicable Requirements

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

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

Pollutant	Limit	Authority for Requirement
Opacity	40% ⁽¹⁾	14-A-059; 567 IAC 23.3(2)"d"
Particulate Matter (PM - State)	0.1 lb/hr	14-A-059
	0.1 gr/dscf	14-A-059; 567 IAC 23.3(2)"a"(1)

⁽¹⁾ An exceedance of the indicator opacity of 5% will require the owner or operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the Department may require additional proof to demonstrate compliance (e.g., stack testing).

Operational Limits & Associated Recordkeeping Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below. 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 DNR. Records shall be legible and maintained in an orderly manner.

- A. Operate and maintain the control equipment according to the manufacturer's specifications.
- B. Record any maintenance performed on the control equipment.

Authority for Requirement: DNR Construction Permit 14-A-059

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 47.4

Stack Opening, (inches): 8 x 10

Exhaust Flow Rate (scfm): 1,100

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 14-A-059

The temperature and flowrate 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 either the

temperature or flowrate above are different than the values stated, the owner or operator shall submit a request to the Department within thirty (30) days of the discovery to determine if a permit amendment is required or submit a permit application requesting to amend the permit.

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"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *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 submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, 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 U.S. EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. 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 emissions inventory shall be submitted annually by March 31 with forms specified by the department documenting actual emissions for the previous calendar year.
4. The fee shall be submitted annually by July 1 with forms specified by the department.
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) 725-8694 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. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. 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. Initial 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 initial 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 initial report may be made by electronic mail (E-mail), 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 initial 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 situation 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 fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *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 (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
 - e. The changes comply with all applicable requirements.
 - f. For each such 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.
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 does 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 Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
 - i. Do not violate any applicable requirement;
 - 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 an 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 under rule 567 - 22.113(455B).
- 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 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, the existing permit terms and conditions it seeks to modify may be enforced against the facility.

3. Significant Title V 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, as those requirements that apply to Title V issuance and renewal.

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 22.111-567 IAC 22.113

G19. Duty to Obtain Construction Permits

Unless exempted in 567 IAC 22.1(2) or to meet the parameters established in 567 IAC 22.1(1)"c", the permittee shall not construct, install, reconstruct or alter any equipment, control equipment or an anaerobic lagoon without first obtaining a construction permit, or conditional permit, or permit pursuant to rule 567 IAC 22.8, or permits required pursuant to rules 567 IAC 22.4, 567 IAC 22.5, 567 IAC 31.3, and 567 IAC 33.3 as required in 567 IAC 22.1(1). A permit shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source or anaerobic lagoon. 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 (567 IAC 23.1(3)"a"); training fires and controlled burning of a demolished building (567 IAC 23.2).

G21. Open Burning

The permittee is prohibited from conducting open burning, except as provided in 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 or greenhouse gas generating substances 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)*

5. A notice of intent shall be provided to the Title V source at least 30 days in advance of the date the permit is to be reopened, except that the director may provide a shorter time period in the case of an emergency. *567 IAC 22.114(3)*

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 consistent with the requirements of *567 IAC 22.111(1)*. *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. 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. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance

evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. 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
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-9545

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
U.S. EPA Region 7
Air Permits and Compliance Branch
11201 Renner Blvd.
Lenexa, KS 66219
(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
Wallace State Office Building
502 E 9th St.
Des Moines, IA 50319-0034
(515) 725-8200

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

7900 Hickman Road, Suite #200
Windsor Heights, IA 50324
(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.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health

Air Quality Branch
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

V. Appendix A – Web Reference Links

New Source Performance Standards (NSPS)

- 40 CFR 60 Subpart Dc: NSPS Small Industrial-Commercial-Institutional Steam Generating Units
https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.d_0c
- 40 CFR 60 Subpart GG: NSPS Stationary Gas Turbines
<https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.gg>
- 40 CFR 60 Subpart Y: NSPS Coal Preparation and Processing Plants
<https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.y>

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- 40 CFR 63 Subpart DDDDD: NESHAP Industrial, Commercial and Institutional Boilers and Process Heaters
<http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.ddddd>
- 40 CFR 63 Subpart ZZZZ: NESHAP – Stationary Reciprocating Internal Combustion Engines
<http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.zzzz>
- 40 CFR 63 Subpart YYYY: NESHAP Combustion Turbines
<https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.13.63.yyyy>
- 40 CFR 63 Subpart UUUUU: NESHAP Coal and Oil Fired Electric Utility Steam Generating Units
<https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.15.63.uuuuu>

VI. Appendix B – CAM Plan

Compliance Assurance Monitoring Plan Electrostatic Precipitator for PM₁₀/PM Control

Facility:	IPL/ Burlington Generating Station
EIQ Number:	92-2773
Emission Unit Description:	Dry Bottom Pulverized, T-Fired Boiler
Emission Unit Identification:	EU 17
Emission Point Identification:	EP 17
Control Equipment Identification:	CE 1
Control Technology:	Electrostatic Precipitator
Emission Limits (PM ₁₀):	0.559 lb/MMBtu 1,161.0 lb/hr 5,085.4 tons/yr
Emission Limit (PM):	0.8 lb/MMBtu
Authority for PM/PM ₁₀ Requirements:	DNR Construction Permit 93-A-390-S12
Current Monitoring Requirements:	Continuous Opacity Monitoring and TR Set Monitoring

This Compliance Assurance Monitoring (CAM) plan was prepared pursuant to 40 CFR Part 64. It represents the monitoring requirements for the electrostatic precipitator (ESP) for boiler EU 17 to provide a reasonable assurance of compliance with the unit's PM₁₀ and PM emission limits. These monitoring requirements were established through several performance stack tests conducted in June 2001 and May 2004, and consist of boiler load, ESP operation parameters and opacity. These results have indicated that, during normal operations, PM₁₀ and PM emission were 17% and 14% of the permit limit of 0.559 and 0.8 lb/MMBtu respectively. In addition, PM₁₀ emission will trigger PM₁₀ limit before PM emission triggers PM limit. Therefore, ensuring compliance with the PM₁₀ limit will warrant compliance with the PM limit.

General

IPL/Burlington Generating Station shall conduct opacity and load vs. emission monitoring in continuous operation at all times that boiler EU 17 is operating except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities as stated in the Title V permit. Emission unit 17 startup and shutdown time periods are exempted from this CAM requirement.

As approved by the DNR, startup is defined as the time beginning when a fire is established and ending when the unit reaches the minimum safe stable load as identified in RT 536 of the quarterly electronic data report (EDR) and required in 40 CFR 75 Appendix A, Section 6.5.2.1. Shutdown is defined as the period beginning when a unit goes below the minimum safe stable load and ending when the boiler "time-on-line" signal shows the unit is off.

Load vs. Emission CAM Indicator

The boiler will be operated based on the charts of Load vs. Emission under different conditions of TR setting or ESP section in service. The charts are included as Appendices 1 and 2.

The TR setting and/or ESP section conditions will be monitored continuously through the control room computer. When certain TR sets are off or certain ESP sections are out of service, the boiler load will be adjusted by the operators according to the charts.

Whenever TR sections are out of service, Burlington Generating Station will document to demonstrate compliance with the PM₁₀ limits using the charts of load vs. emission.

Excursions are triggered when the chart-predicted PM₁₀ emissions are higher than the PM₁₀ limits. Burlington Generating Station shall document all excursions accordingly.

All excursions will be documented using the CAM event documentation sheet, included in Appendix 3.

Opacity CAM Indicator

Burlington Generating Station will use opacity as another CAM indicator and will continuously monitor and record opacity. The opacity shall be monitored and recorded using the Continuous Opacity Monitoring (COM) system. COM shall follow 40 CFR Part 60 requirements.

The current 6-minute opacity data will be used to calculate a one-hour average which will be compared to a pre-determined excursion point. To be consistent with 40 CFR 60 requirements, opacity CAM indicator excursions shall not apply during EU17 startup and shut down and malfunction time periods.

The opacity CAM indicator range is less than or equal to 40% and the excursion point is greater than 40% opacity. Excursions are triggered when the opacity CAM indicator exceeds 40%. Burlington Generating Station will document all excursion events using the CAM event documentation sheet, included as Appendix 3.

In the event the opacity monitor malfunctions for a period greater than 8 hours, Burlington Generating Station will contact the DNR. During these periods of monitor malfunction, the load versus emissions chart will be used to ensure compliance.

Quality Improvement Plan (QIP)

A Quality Improvement Plan (QIP) will be required if an accumulation of excursions of either the load CAM indicators or opacity CAM indicator exceeds 5 percent of boiler EU 17's normal operating time for a 6-month reporting period. All the requirements in 40 CFR 64.8(b) shall be fulfilled if a QIP plan is required.

Quality Assurance and Quality Control

In addition to the load and opacity indicators, Burlington Generating Station will conduct the following activities to assure compliance.

Weekly Inspections

- Inspection of ash hopper and overall ash system operation.

Corrective action measures will be implemented on the occurrence of an abnormal condition. Indications of abnormal operating parameters will trigger a maintenance work order request. The maintenance work request system establishes a work priority to ensure that work on the ESP, or its control system, is performed as soon as possible, considering the unit's need to provide electricity to meet customer demand.

Annual Inspection of the Electrostatic Precipitator

- Inspect plate and electrode alignment and adjust if necessary.
- Check plates and electrodes for excess fouling and signs of corrosion.
- Check the TR set mechanical condition.
- Inspect the insulator housings for mechanical condition.
- Inspect internal structural components for signs of corrosion, air leakage, and mechanical failure.

Corrective actions will be implemented in a timely manner based on the findings of the inspection.

Record Keeping and Reporting

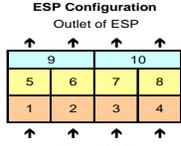
- Opacity reports and supporting data will be kept in accordance with 567 IAC 25.
- Records of all planned unit outage inspections and any actions resulting from these inspections will be kept for five years.
- Whenever an excursion is triggered, Burlington Generating Station will document the duration and cause (including unknown cause) of the excursion and the corrective actions taken.
- All excursions will be reported in semi-annual monitoring reports and annual compliance certifications.

Authority for Requirement: 567 IAC 22.108(3)
40 CFR 64

Appendix 1 to CAM Plan – Load vs. PM₁₀ Emissions (lb/MMBtu) Chart

Appendix 2 to CAM Plan – Load vs. PM₁₀ Emissions (lb/hr) Chart

**Burlington Generating Station -- Based on May 13, 2004 Test Program
Load vs. PM-10 Emissions (lb/hour) Chart from MP-ESP (includes condensibles)**



Emission Limit is 1161 lb/hour. **Bold and bordered** Values indicate over limit.

ESP Section Outage										Sections Out of Service														
1	2	3	4	5	6	7	8	9	10															
0	0	0	0	0	0	0	0	0	0	0														
1				0				0	0	1														
0				1				0	0	1														
0				0				1	0	1														
0				0				0	1	1														
2				0				0	0	2														
0				2				0	0	2														
0				0				1	1	2														
1	0			1	0			0	0	2														
0	1	0		0	1	0		0	0	2														
0	1	0	0	0	1	0	0	0	0	2														
0	0	1	0	0	0	1	0	0	0	2														
0	1			1				0	0	2														
1				0				1	0	2														
0				1				0	0	2														
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5
0				1				0	1	2														
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4
0				0				1	0	2														
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5
0				1				0	1	2														
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4
0				0				1	0	2														
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5
0				1				0	1	2														
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4
0				0				0	0	3														
896.7	859.0	822.1	786.0	750.7	716.2	682.5	649.7	617.6	586.4	556.0	526.3	497.5	442.4	390.4	341.7	296.3	254.1	215.1	179.4	146.9	117.6	91.6	68.9	49.4
0				3				0	0	3														
896.7	859.0	822.1	786.0	750.7	716.2	682.5	649.7	617.6	586.4	556.0	526.3	497.5	442.4	390.4	341.7	296.3	254.1	215.1	179.4	146.9	117.6	91.6	68.9	49.4
1				0				1	1	3														
0				1				1	1	3														
1	0			0				2	0	3														
1	1	0		0				1	0	3														
0	1	1		1	0			0	0	3														
0	1	1	0	0				0	0	3														
1	1	0		1				0	0	3														
0				4				0	0	4														
1111.9	1065.1	1019.4	974.6	930.8	888.1	846.3	805.6	765.9	727.1	689.4	652.7	616.9	548.5	484.1	423.7	367.4	315.0	266.7	222.4	182.1	145.9	113.6	85.4	61.2
1111.9	1065.1	1019.4	974.6	930.8	888.1	846.3	805.6	765.9	727.1	689.4	652.7	616.9	548.5	484.1	423.7	367.4	315.0	266.7	222.4	182.1	145.9	113.6	85.4	61.2
1	1	0		0				1	1	4														
0	1	1		0				1	1	4														
0				1	1	0		1	1	4														
0				0				1	1	4														
1	1	1	0					0	0	4														
1	1	1	0					1	0	4														
1	1	0		0	1	1	1	0	0	4														
0				1	1	1	0	0	0	4														
1	1	0		0	1	0	1	0	1	4														
0	1	1		1				0	1	4														
4				0				1	0	5														
0				4				1	0	5														
4				0				1	1	6														
0				4				1	1	6														

Heat Input (million Btu/hr, HHV basis), from historical CEMS database																										
2527	2473	2419	2366	2312	2258	2205	2151	2097	2043	1990	1936	1882	1775	1667	1560	1452	1345	1238	1130	1023	915	808	700	593		
Generating Load (MW, gross)																										
230	225	220	215	210	205	200	195	190	185	180	175	170	160	150	140	130	120	110	100	90	80	70	60	50		
384.1	368.0	352.2	336.7	321.6	306.8	292.4	278.3	264.6	251.2	238.2	225.5	213.1	189.5	167.3	146.4	126.9	108.8	92.1	76.8	62.9	50.4	39.3	29.5	21.2		
466.3	446.7	427.5	408.7	390.4	372.4	354.9	337.8	321.2	304.9	289.1	273.7	258.7	230.0	203.0	177.7	154.1	132.1	111.9	93.3	76.4	61.2	47.7	35.8	25.7		
466.3	446.7	427.5	408.7	390.4	372.4	354.9	337.8	321.2	304.9	289.1	273.7	258.7	230.0	203.0	177.7	154.1	132.1	111.9	93.3	76.4	61.2	47.7	35.8	25.7		
466.3	446.7	427.5	408.7	390.4	372.4	354.9	337.8	321.2	304.9	289.1	273.7	258.7	230.0	203.0	177.7	154.1	132.1	111.9	93.3	76.4	61.2	47.7	35.8	25.7		
681.5	652.8	624.8	597.3	570.5	544.3	518.7	493.8	469.4	445.7	422.5	400.0	378.1	336.2	296.7	259.7	225.2	193.1	163.5	136.3	111.6	89.4	69.7	52.4	37.5		
681.5	652.8	624.8	597.3	570.5	544.3	518.7	493.8	469.4	445.7	422.5	400.0	378.1	336.2	296.7	259.7	225.2	193.1	163.5	136.3	111.6	89.4	69.7	52.4	37.5		
677.1	648.6	620.8	593.5	566.9	540.8	515.4	490.6	466.4	442.8	419.8	397.5	375.7	334.0	294.8	258.0	223.7	191.8	162.4	135.4	110.9	88.8	69.2	52.0	37.3		
1419.3	1359.5	1301.1	1244.0	1188.1	1133.6	1080.3	1028.3	977.5	928.1	879.9	833.1	787.5	700.1	617.9	540.9	468.9	402.1	340.4	283.9	232.5	186.2	145.1	109.0	78.1		
1419.3	1359.5	1301.1	1244.0	1188.1	1133.6	1080.3	1028.3	977.5	928.1	879.9	833.1	787.5	700.1	617.9	540.9	468.9	402.1	340.4	283.9	232.5	186.2	145.1	109.0	78.1		
1419.3	1359.5	1301.1	1244.0	1188.1	1133.6	1080.3	1028.3	977.5	928.1	879.9	833.1	787.5	700.1	617.9	540.9	468.9	402.1	340.4	283.9	232.5	186.2	145.1	109.0	78.1		
1419.3	1359.5	1301.1	1244.0	1188.1	1133.6	1080.3	1028.3	977.5	928.1	879.9	833.1	787.5	700.1	617.9	540.9	468.9	402.1	340.4	283.9	232.5	186.2	145.1	109.0	78.1		
681.5	652.8	624.8	597.3	570.5	544.3	518.7	493.8	469.4	445.7	422.5	400.0	378.1	336.2	296.7	259.7	225.2	193.1	163.5	136.3	111.6	89.4	69.7	52.4	37.5		
681.5	652.8	624.8	597.3	570.5	544.3	518.7	493.8	469.4	445.7	422.5	400.0	378.1	336.2	296.7	259.7	225.2	193.1	163.5	136.3	111.6	89.4	69.7	52.4	37.5		
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5		
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5		
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4		
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4		
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5		
1044.4	1000.5	957.5	915.4	874.3	834.2	795.0	756.7	719.4	683.0	647.5	613.1	579.5	515.2	454.7	398.0	345.1	295.9	250.5	208.9	171.1	137.0	106.7	80.2	57.5		
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4		
679.3	650.7	622.8	595.4	568.7	542.6	517.1	492.2	467.9	444.2	421.2	398.7	376.9	335.1	295.8	258.9	224.4	192.5	162.9	135.9	111.3	89.1	69.4	52.2	37.4		
896.7	859.0	822.1	786.0	750.7	716.2	682.5	649.7	617.6	586.4	556.0	526.3	497.5	442.4	390.4	341.7	296.3	254.1	215.1	179.4	146.9	117.6	91.6	68.9	49.4		
896.7	859.0	822.1	786.0	750.7	7																					

Appendix 3 to CAM Plan – CAM Event Form

CAM Event Form Burlington Generating Station

Purpose: Provide documentation of compliance assurance monitoring (CAM) event when having 2 or more ESP TR sections are in outage (see instructions when half RT sections are in outage) and/or opacity exceeding 40% (one hour average). Both events to be applied to this form will be indicated by the computer alarm system.

Note: This form shall be used only when control room alarm is triggered. Please do not use it for boiler startup/shutdown period exceedances.

Completed by Operator			
Operator Name: _____			
1. Date: _____	2. Event Start Time: _____	Event End Time: _____	Event Total Time: _____, Minutes
3. Alarmed CAM Indicator: <input type="checkbox"/> Load vs. Emission at _____ MW (gross), fill in 4 thru 8 . <input type="checkbox"/> Opacity at _____ % (1-hr Ave), fill in 6 thru 8			
4. Indicate TR Section Outage(s): <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10			
5. Enter PM10 values from the attached Load vs. Emission Charts: _____(lb/mmBtu), _____(lb/hr)			
6. Alarm/Malfunction Cause(s): <input type="checkbox"/> Boiler Upset; <input type="checkbox"/> Boiler Adjustment; <input type="checkbox"/> Soot Blowing; <input type="checkbox"/> Control Equipment (ESP, etc.); <input type="checkbox"/> Other _____			
7. Corrective Action(s): <input type="checkbox"/> Drop load to _____ Gross MW; <input type="checkbox"/> Reset TR ; <input type="checkbox"/> Fuel Adjustment; <input type="checkbox"/> Other _____			
8. <input type="checkbox"/> Give to Plant Environmental and Safety Specialist once complete.			
Completed by E&S Specialist			
1. Date: _____	Time: _____	Name: _____	
2. PM-10 Emission Rate During Alarming Time (Load vs Emissions only): _____ <input type="checkbox"/> lb/MMBtu, if ≥ 0.559 , go to 3 . Otherwise, stop here and keep the record. _____ <input type="checkbox"/> lb/hr, if ≥ 1161 , go to 3 . Otherwise, stop here and keep the record.			
3. Total excursion hours this 6 month reporting period so far: L. vs. E _____ hr. Opacity _____ hr.			
4. Calculate % of excursion (s) for 6-month reporting period: L. vs. E _____%; Opacity _____%			
5. Does either of them exceed 5% for this 6 month reporting period? <input type="checkbox"/> Yes, go to 6 . <input type="checkbox"/> No, go to 7			
6. Initiate and submit QIP to the IDNR (Support provided by Air Specialist)			
7. Report in semi-annual report and annual certification.			

Plant Environmental and Safety Specialist Comments:
E & S Signature: _____

*See back for Instructions

The following is the instructions on how to use the lb/hr vs load and lbs/mmbtu vs load charts. When in alarm, both the lb/hr vs load chart and lbs/mmbtu vs load chart need to be checked. Operator will fill out items 1 through 8 on the CAM Event form.

1. Date – Date of the alarm
2. Event Start at (time the alarm comes in); Event End Time (time event ends): Event Total Time (total minutes of event) Minutes.
3. Alarmed CAM Indicator
 - a. Put a check in the Load vs. Emission check box.
 - b. Insert the Gross MW on line.
4. Insert an “X” in the correct TR Section Outage boxes. Insert a “/” if only half of TR section is in outage. After the boxes have been checked, go to ESP Section Outage of the chart and find the TR outage that matches the current TR outage. (see “a.” through “d.” below for half-section outages)
 - a. If there is a half-section outage in Sections 1-8, count the outage as a whole section outage.
 - b. If there are two half-section outages of the ESP in Sections 1-8, then count that as one whole section outage.
 - c. If there are three half-section outages of the ESP in Sections 1-8, then count that as two whole section outages (i.e., round up to the next higher outage number).
 - d. For outlet sections 9 and 10, if you lose half a section, count the entire section as an outage since there is no further collection behind it.

Electrostatic Precipitator TR Sections

9		10	
5	6	7	8
1	2	3	4

5. Once TR is established, go to the right to find the recorded MW column. The reportable emission rate will be where the TR and MW meet. Fill this number in the provided space.
6. Alarm/Malfunction Cause(s) – Check the appropriate box or fill in.
7. Corrective Action (s) – Check the appropriate box or fill in.
8. Give to Plant Environmental and Safety Specialist once complete.

VII. Appendix C – System-wide Consent Decree Requirements for IPL Facilities in Iowa

Any requirements contained in this permit that are required by and refer to “*Consent Decree*” [*United States of America and The State of Iowa, and The County of Linn, Iowa and Sierra Club v. Interstate Power and Light Company*, Civil Action No.: C15-0061; United States District Court for the Northern District of Iowa (September 2, 2015)] have been included in this permit solely to comply with the Consent Decree.

If and when the Consent Decree is terminated, the substantive requirements originating in and required by the Consent Decree and included in this permit, shall remain in full force and effect. As required by Consent Decree Paragraph 225, the requirements and limitations enumerated in the Consent Decree are permanently included in this federally enforceable permit and shall remain applicable requirements as that term is defined in 40 CFR §70.2.

The requirements found in permit Conditions A – E below were established upon the Interstate Power and Light (IPL) “*system*” in Iowa per the Consent Decree. “*System*” as used in this permit is defined as the Burlington, Dubuque, Lansing, M.L. Kapp, Ottumwa, Prairie Creek, Sixth Street, and Sutherland Generating Stations. The individual Generating Stations are defined by the Generating Station location and its units as listed in the following table:

<p>Burlington Generating Station Des Moines County</p> <ul style="list-style-type: none"> • Unit 1 (212 MW, coal-fired) 	<p>Ottumwa Generating Station Wapello County</p> <ul style="list-style-type: none"> • Unit 1 (726 MW, coal-fired)
<p>Dubuque Generating Station⁽⁵⁾ Dubuque County</p> <ul style="list-style-type: none"> • Unit 1 (38 MW, fossil-fuel fired) • Unit 5 (29 MW, fossil-fuel fired) • Unit 6 (15 MW, fossil-fuel fired) 	<p>Sutherland Generating Station⁽¹⁾ Marshall County</p> <ul style="list-style-type: none"> • Unit 1 (38 MW, fossil-fuel fired) • Unit 2 (38 MW, fossil-fuel fired) • Unit 3 (82 MW, fossil-fuel fired)
<p>Prairie Creek Generating Station Linn County</p> <ul style="list-style-type: none"> • Boiler 1 (heat input of 245 MMBTU/hr, coal-fired) • Boiler 2 (heat input of 304 MMBTU/hr, coal-fired) • Unit 3 (50 MW, coal-fired) • Unit 4 (149 MW, coal-fired) 	<p>Sixth Street Generating Station⁽²⁾ Linn County</p> <ul style="list-style-type: none"> • Unit 1 (10 MW, coal-fired) • Unit 2 (18 MW, coal-fired) • Unit 3 (17 MW, coal-fired) • Unit 4 (17 MW, coal-fired) • Unit 5 (32 MW, coal-fired)
<p>Lansing Generating Station⁽³⁾ Allamakee County</p> <ul style="list-style-type: none"> • Unit 1 (15 MW, coal-fired) • Unit 2 (12 MW, coal-fired) • Unit 3 (38 MW, coal-fired) • Unit 4 (275 MW, coal-fired) 	<p>Milton L. Kapp (M.L. Kapp) Generating⁽⁴⁾ Station Clinton County</p> <ul style="list-style-type: none"> • Unit 1 (19 MW, coal-fired) • Unit 2 (219 MW, coal-fired)

⁽¹⁾ Sutherland Units 1, 2, and 3 no longer operate and have been removed from the Title V operating permit.

⁽²⁾ Sixth Street Generating Station no longer operates and its Title V permit has been rescinded.

⁽³⁾ Lansing Units 1, 2, and 3 no longer operate and the construction permit for each unit has been rescinded.

⁽⁴⁾ M.L. Kapp Unit 1 no longer operates and it has been removed from the Title V operating permit.

⁽⁵⁾ Dubuque Generating Station no longer operates and its Title V permit has been rescinded.

A. System-wide Emission Limits

(1) As required by Consent Decree Paragraph 102, the IPL “system” in Iowa shall not exceed the following annual tonnage limits for NO_x:

Calendar Year	System-wide Annual NO _x Limit (tons/yr)
2015, 2016, and 2017	11,500
2018 and 2019	10,500
2020	7,500
2021	7,250
2022 and continuing each calendar year thereafter	6,800

(2) As required by Consent Decree Paragraph 126, the IPL “system” in Iowa shall not exceed the following annual tonnage limits for SO₂:

Calendar Year	System-wide Annual SO ₂ Limit (tons/yr)
2015	39,000
2016	23,500
2017 and 2018	14,100
2019 and 2020	12,000
2021	11,000
2022, 2023, 2024, and 2025	6,000
2026 and continuing each calendar year thereafter	3,250

B. Consent Decree Monitoring

(1) As required by Consent Decree Paragraphs 103 and 104, the owner or operator shall demonstrate compliance with the Consent Decree NO_x limits using the following procedures:

- (a) For system-wide annual tonnage limits and the Prairie Creek annual tonnage limits:
 - (i) For all listed units except for Prairie Creek Generating Station Units 1 and 2: As required by Consent Decree Paragraph 104, the owner or operator shall use NO_x emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75.
 - (ii) For Prairie Creek Generating Station Units 1 and 2: As required by Consent Decree Paragraph 114, the owner or operator shall calculate calendar-year NO_x mass emissions for inclusion in the system-wide annual tonnage limit [Condition A.(1)] and the Prairie Creek annual tonnage limit by multiplying the NO_x rate, as determined from the last performed reference method test, by the respective heat input for each unit for that calendar year. The heat input shall be calculated by multiplying the amount of each fuel combusted by its respective gross heating value and summed for all fuels combusted in each boiler.

(2) Per Consent Decree Paragraphs 127 and 128, the owner or operator shall demonstrate

compliance with the Consent Decree SO₂ limits using the following procedures:

- (a) For system-wide annual tonnage limits the owner or operator shall use SO₂ emission data obtained from a CEMS in accordance with the procedures specified in 40 CFR Part 75. Once a unit is refueled the SO₂ emissions shall be calculated using a stack test emission factor or by using methods set forth in US EPA's AP-42 (*Compilation of Air Pollutant Emission Factors*).

C. Allowances

(1) NO_x Allowances:

- (a) As required by Consent Decree Paragraph 43, “NO_x Allowance” is defined as an authorization to emit a specific amount of NO_x that is allocated or issued under an emission trading or marketable permit program of any kind established under the Clean Air Act (CAA) or applicable State Implementation Plan; provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2011, a “NO_x Allowance” shall include an allowance created and allocated under such program only for control periods starting on or after September 2, 2019 [the fourth anniversary of the date of entry of the Consent Decree].
- (b) As required by Consent Decree Paragraph 111, the owner or operator shall surrender or transfer to a non-profit third party selected by the owner or operator for surrender, all NO_x allowances required to be surrendered pursuant to Consent Decree Paragraph 107 by June 30 of the immediately following calendar year. If any NO_x allowances required to be surrendered are transferred directly to a non-profit third-party, the owner or operator shall include a description of such transfer in the next report submitted to EPA pursuant to Section XII (Periodic Reporting) of the Consent Decree. The report shall:
 - (i) Identify the non-profit recipient(s) of the NO_x allowances and list the serial numbers of the transferred NO_x allowances.
 - (ii) Include a certification by the third-party recipient(s) stating that the recipient(s) will not sell, trade, or otherwise exchange any of the NO_x allowances and will not use any of the NO_x allowances to meet any obligation imposed by any environmental law.
 - (iii) No later than the third periodic report due after the transfer of any NO_x allowances, the owner or operator shall include a statement that the third-party recipient(s) surrendered the NO_x allowances for permanent surrender to EPA in accordance with the provisions of Paragraph 112 of the Consent Decree within one (1) year after the owner or operator transferred the NO_x allowances to them. The owner or operator shall not have complied with the NO_x allowance surrender requirements of Consent Decree Paragraph 111 until all third-party recipient(s) have actually surrendered the transferred NO_x allowances to EPA.
- (c) As required by Consent Decree Paragraph 112, for all allowances required to be surrendered, the owner or operator shall ensure that a NO_x allowance transfer request form is first submitted to EPA’s Office of Air and Radiation’s Clean Air Markets Division directing the transfer of such NO_x allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct

in writing. Such NO_x allowance transfer requests may be made in an electronic manner using the EPA's Clean Air Markets Division Business System or similar system provided by EPA. As part of submitting these transfer requests, the owner or operator shall ensure that the transfer of its NO_x allowances are irrevocably authorized and that the source and location of the NO_x allowances being surrendered are identified by name of account and any applicable serial or other identification numbers or station names.

- (d) As required by Consent Decree Paragraph 105, the owner or operator shall not use NO_x allowances to comply with any requirement of the Consent Decree, including claiming compliance with any emission limitation required by the Consent Decree by using, tendering, or otherwise applying NO_x allowances to offset any excess emissions.
 - (e) As required by Consent Decree Paragraph 106, except as provided in Consent Decree Paragraphs 107 and 108, the owner or operator shall not sell, bank, trade, or transfer its interest in any NO_x allowances allocated to units in the System.
 - (f) As required by Consent Decree Paragraph 107, for each calendar year, the owner or operator shall surrender all NO_x allowances allocated to the units in the System for that calendar year that the owner or operator does not need to meet federal and/or state CAA regulatory requirements for System units.
 - (g) As required by Consent Decree Paragraph 108, the owner or operator is allowed to purchase or otherwise obtain NO_x allowances from another source for purposes of complying with federal and/or state CAA regulatory requirements to the extent otherwise allowed by law.
 - (h) As required by Consent Decree Paragraph 109, the owner or operator's use and surrender of NO_x Allowances are permanent and are not subject to any termination provision of the Consent Decree.
- (2) NO_x Super-Compliant Allowances
- (a) As required by Consent Decree Paragraph 110, notwithstanding Consent Decree Paragraphs 106 and 107, in each calendar year the owner or operator may sell, bank, use, trade, or transfer NO_x allowances allocated to the units in the System that are made available in that calendar year solely as a result of:
 - (i) The installation and operation of any NO_x air pollution control equipment that is not otherwise required under the Consent Decree and is not otherwise required by law;
 - (ii) The use of a selective catalytic reduction (SCR) prior to the date established in the Consent Decree; or
 - (iii) Achievement and maintenance of an emission rate below an applicable 30-day rolling average emission rate or 12-month rolling average emission rate for NO_x;provided the owner or operator is also in compliance for the calendar year with all emission limitations for NO_x set forth in the Consent Decree. The owner or operator shall timely report the generation of such Super-Compliant Allowances in accordance with Section XII (Periodic Reporting) of the Consent Decree.
- (3) SO₂ Allowances:
- (a) As required by Consent Decree Paragraph 66, "*SO₂ Allowance*" is defined as an authorization to emit a specified amount of SO₂ that is allocated or issued under an

emission trading or marketable permit program of any kind established under the CAA or applicable State Implementation Plan; provided, however, that with respect to any such program that first applies to emissions occurring after December 31, 2011, a “SO₂ Allowance” shall include an allowance created and allocated under such program only for control periods starting on or after September 2, 2019 [the fourth anniversary of the date of entry of the Consent Decree].

- (b) As required by Consent Decree Paragraph 135, the owner or operator shall surrender or transfer to a non-profit third party selected by the owner or operator for surrender, all SO₂ allowances required to be surrendered pursuant to Consent Decree Paragraph 131 by June 30 of the immediately following calendar year. If any SO₂ allowances required to be surrendered are transferred directly to a non-profit third-party, the owner or operator shall include a description of such transfer in the next report submitted to EPA pursuant to Section XII (Periodic Reporting) of the Consent Decree. The report shall:
 - (i) Identify the non-profit recipient(s) of the SO₂ allowances and list the serial numbers of the transferred SO₂ allowances.
 - (ii) Include a certification by the third-party recipient(s) stating that the recipient(s) will not sell, trade, or otherwise exchange any of the SO₂ allowances and will not use any of the SO₂ allowances to meet any obligation imposed by any environmental law.
 - (iii) No later than the third periodic report due after the transfer of any SO₂ allowances, the owner or operator shall include a statement that the third-party recipient(s) surrendered the SO₂ allowances for permanent surrender to EPA in accordance with the provisions of Paragraph 136 of the Consent Decree within one (1) year after the owner or operator transferred the SO₂ allowances to them. The owner or operator shall not have complied with the SO₂ allowance surrender requirements of Consent Decree Paragraph 135 until all third-party recipient(s) have actually surrendered the transferred SO₂ allowances to EPA.
- (c) As required by Consent Decree Paragraph 136, for all allowances required to be surrendered, the owner or operator shall ensure that a SO₂ allowance transfer request form is first submitted to EPA’s Office of Air and Radiation’s Clean Air Markets Division directing the transfer of such SO₂ allowances to the EPA Enforcement Surrender Account or to any other EPA account that EPA may direct in writing. Such SO₂ allowance transfer requests may be made in an electronic manner using the EPA’s Clean Air Markets Division Business System or similar system provided by EPA. As part of submitting these transfer requests, the owner or operator shall ensure that the transfer of its SO₂ allowances are irrevocably authorized and that the source and location of the SO₂ allowances being surrendered are identified by name of account and any applicable serial or other identification numbers or station names.
- (d) As required by Consent Decree Paragraph 129, the owner or operator shall not use SO₂ allowances to comply with any requirement of the Consent Decree, including claiming compliance with any emission limitation required by the Consent Decree by using, tendering, or otherwise applying SO₂ allowances to offset any excess emissions.

- (e) As required by Consent Decree Paragraph 130, except as provided in Consent Decree Paragraphs 131 and 132, the owner or operator shall not sell, bank, trade, or transfer its interest in any SO₂ allowances allocated to units in the System.
 - (f) As required by Consent Decree Paragraph 131, for each calendar year, the owner or operator shall surrender all SO₂ allowances allocated to the units in the System for that calendar year that the owner or operator does not need to meet federal and/or state CAA regulatory requirements for System units.
 - (g) As required by Consent Decree Paragraph 132, the owner or operator is allowed to purchase or otherwise obtain SO₂ allowances from another source for purposes of complying with federal and/or state CAA regulatory requirements to the extent otherwise allowed by law.
 - (h) As required by Consent Decree Paragraph 133, the owner or operator's use and surrender of SO₂ Allowances are permanent and are not subject to any termination provision of the Consent Decree.
- (4) SO₂ Super-Compliant Allowances
- (a) As required by Consent Decree Paragraph 134, notwithstanding Consent Decree Paragraphs 130 and 131, in each calendar year the owner or operator may sell, bank, use, trade, or transfer SO₂ allowances allocated to the units in the System that are made available in that calendar year solely as a result of:
 - (i) The installation and operation of any SO₂ air pollution control equipment that is not otherwise required under the Consent Decree and is not otherwise required by law;
 - (ii) The use of a dry flue gas desulfurization (DFGD) prior to the date established in the Consent Decree; or
 - (iii) Achievement and maintenance of an emission rate below an applicable 30-day rolling average emission rate or 12-month rolling average emission rate for SO₂;
 provided the owner or operator is also in compliance for the calendar year with all emission limitations for SO₂ set forth in the Consent Decree. The owner or operator shall timely report the generation of such Super-Compliant Allowances in accordance with Section XII (Periodic Reporting) of the Consent Decree.

D. Repowering Requirements

- (1) As defined in Paragraph 61 of the Consent Decree, "Repower" or "Repowered" means the removal and replacement of the Unit components such that the replaced unit generates electricity solely through the combustion of natural gas through the use of a combined cycle combustion turbine technology. Nothing herein shall prevent the reuse of any equipment at any existing unit or new emissions unit, provided that the owner or operator applies for, and obtains, all required permits, including, if applicable, a Prevention of Significant Deterioration (PSD) or Nonattainment New Source Review (NSR) permit.
- (2) As defined in Paragraph 62 of the Consent Decree, "Retire," "Retired," or "Retirement" means to permanently shut down a unit such that the unit cannot physically or legally burn fossil fuel, and to comply with applicable state and federal requirements for permanently ceasing operation of the unit as a fossil fuel-fired electric generating unit, including removing the unit from Iowa's air emissions inventory, and amending all

applicable permits so as to reflect the permanent shutdown status of such unit. The owner or operator can choose to not retire and to continue to operate such a unit only if it is “Refueled” or “Repowered” within the meaning of the Consent Decree, and the owner or operator obtains any and all required CAA permits for the “Refueled” or “Repowered” unit, including but not limited to an appropriate permit pursuant to CAA Subchapter I, Parts C and D, and pursuant to the applicable Iowa state implementation plan (SIP) provisions implementing CAA Subchapter I.

- (3) The owner or operator has ceased operations at Lansing Unit 1, Lansing Unit 2, Lansing Unit 3, M.L. Kapp Unit 1, Sutherland Unit 2, Sixth Street Unit 1, Sixth Street Unit 2, Sixth Street Unit 3, Sixth Street Unit 4, and Sixth Street Unit 5. In accordance with Paragraph 78 of the Consent Decree, the permanent “Retirement” of these units became an enforceable obligation such that the owner or operator may only operate if:
 - (i) It is “Repowered” per Condition D.(1) and
 - (ii) The owner or operator obtains any and all required CAA permit(s) for the repowered unit including but not limited to an appropriate permit pursuant to CAA Subchapter I, Parts C and D, and pursuant to the applicable Iowa State Implementation Plan (SIP) provisions implementing CAA Subpart I.

E. Post Consent Decree Reporting

As required by 567 IAC 25.1(6), the owner or operator shall provide quarterly reports to the Department no later than thirty (30) calendar days following the end of the calendar quarter on forms provided by the Department for each CEMS. All periods of recorded emissions in excess of applicable standards, the results of all calibrations and zero checks and performance evaluations or source upsets and any apparent reasons for these malfunctions and upsets shall be included in the report. In addition, the owner or operator shall include in the quarterly report all periods of monitor malfunction, maintenance, and/or repair procedures performed.

Upon the termination of the Consent Decree, the owner or operator shall submit periodic reports as required by Title V to demonstrate compliance with all Consent Decree requirements contained within Conditions (Emission Limits), (Operating Requirements with Associated Monitoring and Recordkeeping), and (System-wide Consent Decree Requirements for IPL Facilities in Iowa) of this permit. At a minimum, the information in the reports shall include:

- (1) All information necessary to determine compliance during the reporting period with:
 - (a) All applicable system-wide annual tonnage limitations;
 - (b) The obligation to monitor SO₂, NO_x, and PM emissions; and
 - (c) The obligation to surrender NO_x and SO₂ allowances.
- (2) Emission reporting and allowance accounting information necessary to determine super-compliant NO_x and SO₂ allowances that the owner or operator claims to have generated in accordance with Consent Decree Paragraphs 110 and 134 through control of emissions beyond the requirements of the Consent Decree.

VIII. Appendix D – TR Requirements and Acid Rain Permit

Transport Rule (TR) Trading Program Title V Requirements

Description of TR Monitoring Provisions

The TR subject unit(s), and the unit-specific monitoring provisions at this source, are identified in the following table(s). These unit(s) are subject to the requirements for the TR NO_x Annual Trading Program, TR NO_x Ozone Season Trading Program and TR SO₂ Group 1 Trading Program.

Unit ID: 1 (ORIS Code: 1104) Interstate Power and Light – Burlington Generating Station					
Parameter	Continuous emission monitoring system or systems (CEMS) requirements pursuant to 40 CFR part 75, subpart B (for SO ₂ monitoring) and 40 CFR part 75, subpart H (for NO _x monitoring)	Excepted monitoring system requirements for gas- and oil-fired units pursuant to 40 CFR part 75, appendix D	Excepted monitoring system requirements for gas- and oil-fired peaking units pursuant to 40 CFR part 75, appendix E	Low Mass Emissions excepted monitoring (LME) requirements for gas- and oil-fired units pursuant to 40 CFR 75.19	EPA-approved alternative monitoring system requirements pursuant to 40 CFR part 75, subpart E
SO ₂	X		-----		
NO _x	X	-----			
Heat input	X		-----		

1. The above description of the monitoring used by a unit does not change, create an exemption from, or otherwise affect the monitoring, recordkeeping, and reporting requirements applicable to the unit under 40 CFR 97.430 through 97.435 (TR NO_x Annual Trading Program), 97.530 through 97.535 (TR NO_x Ozone Season Trading Program), and 97.630 through 97.635 (TR SO₂ Group 1 Trading Program). The monitoring, recordkeeping and reporting requirements applicable to each unit are included below in the standard conditions for the applicable TR trading programs.

2. Owners and operators must submit to the Administrator a monitoring plan for each unit in accordance with 40 CFR 75.53, 75.62 and 75.73, as applicable. The monitoring plan for each unit is available at the EPA's website at

<http://www.epa.gov/airmarkets/emissions/monitoringplans.html>.

3. Owners and operators that want to use an alternative monitoring system must submit to the Administrator a petition requesting approval of the alternative monitoring system in accordance with 40 CFR part 75, subpart E and 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative monitoring system is available on the EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

4. Owners and operators that want to use an alternative to any monitoring, recordkeeping, or reporting requirement under 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and/or 97.630 through 97.634 (TR SO₂ Group 1 Trading Program) must submit to the Administrator a petition requesting approval of the alternative in accordance with 40 CFR 75.66 and 97.435 (TR NO_x Annual Trading Program), 97.535 (TR NO_x Ozone Season Trading Program) and/or 97.635 (TR SO₂ Group 1 Trading Program). The Administrator's response approving or disapproving any petition for an alternative to a monitoring, recordkeeping, or reporting requirement is available on EPA's website at <http://www.epa.gov/airmarkets/emissions/petitions.html>.

5. The descriptions of monitoring applicable to the unit included above meet the requirement of 40 CFR 97.430 through 97.434 (TR NO_x Annual Trading Program), 97.530 through 97.534 (TR NO_x Ozone Season Trading Program) and 97.630 through 97.634 (TR SO₂ Group 1 Trading Program), and therefore minor permit modification procedures, in accordance with 40 CFR 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B), may be used to add to or change this unit's monitoring system description.

TR NO_x Annual Trading Program requirements (40 CFR 97.406)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.413 through 97.418.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.431 (initial monitoring system certification and recertification procedures), 97.432 (monitoring system out-of-control periods), 97.433 (notifications concerning monitoring), 97.434 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.435 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.430 through 97.435 shall be used to calculate allocations of TR NO_x Annual allowances under 40 CFR 97.411(a)(2) and (b) and 97.412 and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions

amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.430 through 97.435 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

(1) TR NO_x Annual emissions limitation.

- (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall hold, in the source's compliance account, TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual units at the source.
- (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Annual units at a TR NO_x Annual source are in excess of the TR NO_x Annual emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Annual unit at the source shall hold the TR NO_x Annual allowances required for deduction under 40 CFR 97.424(d); and
 - (B). The owners and operators of the source and each TR NO_x Annual unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.

(2) TR NO_x Annual assurance provisions.

- (i). If total NO_x emissions during a control period in a given year from all TR NO_x Annual units at TR NO_x Annual sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.425(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.425(b), of multiplying— (A) The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and (B) The amount by which total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the state for such control period exceed the state assurance level.

- (ii). The owners and operators shall hold the TR NO_x Annual allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii). Total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the State during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the state NO_x Annual trading budget under 40 CFR 97.410(a) and the state's variability limit under 40 CFR 97.410(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart AAAAA or of the Clean Air Act if total NO_x emissions from all TR NO_x Annual units at TR NO_x Annual sources in the State during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Annual units at TR NO_x Annual sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR NO_x Annual allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR NO_x Annual allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart AAAAA and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
 - (ii). A TR NO_x Annual unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.430(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Annual allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR NO_x Annual allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Annual allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR NO_x Annual allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart AAAAA.

- (6) Limited authorization. A TR NO_x Annual allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the TR NO_x Annual Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.
- (7) Property right. A TR NO_x Annual allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Annual allowances in accordance with 40 CFR part 97, subpart AAAAA.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.430 through 97.435, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.406(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR NO_x Annual source and each TR NO_x Annual unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.
 - (i). The certificate of representation under 40 CFR 97.416 for the designated representative for the source and each TR NO_x Annual unit 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 certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.416 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart AAAAA.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Annual Trading Program.
- (2) The designated representative of a TR NO_x Annual source and each TR NO_x Annual unit at the source shall make all submissions required under the TR NO_x Annual Trading Program, except as provided in 40 CFR 97.418. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual source or the designated representative of a TR NO_x Annual source shall also apply to the owners and operators of such source and of the TR NO_x Annual units at the source.
- (2) Any provision of the TR NO_x Annual Trading Program that applies to a TR NO_x Annual unit or the designated representative of a TR NO_x Annual unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_x Annual Trading Program or exemption under 40 CFR 97.405 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Annual source or TR NO_x Annual unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR NO_x Ozone Season Trading Program Requirements (40 CFR 97.506)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.513 through 97.518.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.530 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.531 (initial monitoring system certification and recertification procedures), 97.532 (monitoring system out-of-control periods), 97.533 (notifications concerning monitoring), 97.534 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.535 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.530 through 97.535 shall be used to calculate allocations of TR NO_x Ozone Season allowances under 40 CFR 97.511(a)(2) and (b) and 97.512 and to determine compliance with the TR NO_x Ozone Season emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.530 through 97.535 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) NO_x emissions requirements.

- (1) TR NO_x Ozone Season emissions limitation.
 - (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, TR NO_x Ozone Season allowances available for deduction for such control period

- under 40 CFR 97.524(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Ozone Season units at the source.
- (ii). If total NO_x emissions during a control period in a given year from the TR NO_x Ozone Season units at a TR NO_x Ozone Season source are in excess of the TR NO_x Ozone Season emissions limitation set forth in paragraph (c)(1)(i) above, then:
 - (A). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall hold the TR NO_x Ozone Season allowances required for deduction under 40 CFR 97.524(d); and
 - (B). The owners and operators of the source and each TR NO_x Ozone Season unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBBB and the Clean Air Act.
- (2) TR NO_x Ozone Season assurance provisions.
- (i). If total NO_x emissions during a control period in a given year from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such NO_x emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR NO_x Ozone Season allowances available for deduction for such control period under 40 CFR 97.525(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.525(b), of multiplying—
 - (A). The quotient of the amount by which the common designated representative's share of such NO_x emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such NO_x emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state for such control period exceed the state assurance level.
 - (ii). The owners and operators shall hold the TR NO_x Ozone Season allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii). Total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period in a given year exceed the state assurance level if such total NO_x emissions exceed the sum, for such control period, of the State NO_x Ozone Season trading budget under 40 CFR 97.510(a) and the state's variability limit under 40 CFR 97.510(b).

- (iv). It shall not be a violation of 40 CFR part 97, subpart BBBBB or of the Clean Air Act if total NO_x emissions from all TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total NO_x emissions from the TR NO_x Ozone Season units at TR NO_x Ozone Season sources in the state during a control period exceeds the common designated representative's assurance level.
 - (v). To the extent the owners and operators fail to hold TR NO_x Ozone Season allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR NO_x Ozone Season allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart BBBBB and the Clean Air Act.
- (3) Compliance periods.
- (i). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of May 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
 - (ii). A TR NO_x Ozone Season unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of May 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.530(b) and for each control period thereafter.
- (4) Vintage of allowances held for compliance.
- (i). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for such control period or a control period in a prior year.
 - (ii). A TR NO_x Ozone Season allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR NO_x Ozone Season allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.
- (5) Allowance Management System requirements. Each TR NO_x Ozone Season allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart BBBBB.
- (6) Limited authorization. A TR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x during the control period in one year. Such authorization is limited in its use and duration as follows:
- (i). Such authorization shall only be used in accordance with the TR NO_x Ozone Season Trading Program; and
 - (ii). Notwithstanding any other provision of 40 CFR part 97, subpart BBBBB, the Administrator has the authority to terminate or limit the use and duration of such

authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR NO_x Ozone Season allowance does not constitute a property right.

(d) Title V permit revision requirements.

(1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR NO_x Ozone Season allowances in accordance with 40 CFR part 97, subpart BBBBB.

(2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.530 through 97.535, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.506(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

(1) Unless otherwise provided, the owners and operators of each TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.

(i). The certificate of representation under 40 CFR 97.516 for the designated representative for the source and each TR NO_x Ozone Season unit 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 certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.516 changing the designated representative.

(ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart BBBBB.

(iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR NO_x Ozone Season Trading Program.

(2) The designated representative of a TR NO_x Ozone Season source and each TR NO_x Ozone Season unit at the source shall make all submissions required under the TR NO_x Ozone Season Trading Program, except as provided in 40 CFR 97.518. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

(1) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season source or the designated representative of a TR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the TR NO_x Ozone Season units at the source.

- (2) Any provision of the TR NO_x Ozone Season Trading Program that applies to a TR NO_x Ozone Season unit or the designated representative of a TR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR NO_x Ozone Season Trading Program or exemption under 40 CFR 97.505 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR NO_x Ozone Season source or TR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.

TR SO₂ Group 1 Trading Program requirements (40 CFR 97.606)

(a) Designated representative requirements.

The owners and operators shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with 40 CFR 97.613 through 97.618.

(b) Emissions monitoring, reporting, and recordkeeping requirements.

- (1) The owners and operators, and the designated representative, of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.630 (general requirements, including installation, certification, and data accounting, compliance deadlines, reporting data, prohibitions, and long-term cold storage), 97.631 (initial monitoring system certification and recertification procedures), 97.632 (monitoring system out-of-control periods), 97.633 (notifications concerning monitoring), 97.634 (recordkeeping and reporting, including monitoring plans, certification applications, quarterly reports, and compliance certification), and 97.635 (petitions for alternatives to monitoring, recordkeeping, or reporting requirements).
- (2) The emissions data determined in accordance with 40 CFR 97.630 through 97.635 shall be used to calculate allocations of TR SO₂ Group 1 allowances under 40 CFR 97.611(a)(2) and (b) and 97.612 and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions under paragraph (c) below, provided that, for each monitoring location from which mass emissions are reported, the mass emissions amount used in calculating such allocations and determining such compliance shall be the mass emissions amount for the monitoring location determined in accordance with 40 CFR 97.630 through 97.635 and rounded to the nearest ton, with any fraction of a ton less than 0.50 being deemed to be zero.

(c) SO₂ emissions requirements.

- (1) TR SO₂ Group 1 emissions limitation.
- (i). As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall hold, in the source's compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR SO₂ Group 1 units at the source.
- (ii). If total SO₂ emissions during a control period in a given year from the TR SO₂ Group 1 units at a TR SO₂ Group 1 source are in excess of the TR SO₂ Group 1 emissions limitation set forth in paragraph (c)(1)(i) above, then:

- (A). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall hold the TR SO₂ Group 1 allowances required for deduction under 40 CFR 97.624(d); and
 - (B). The owners and operators of the source and each TR SO₂ Group 1 unit at the source shall pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act, and each ton of such excess emissions and each day of such control period shall constitute a separate violation 40 CFR part 97, subpart CCCCC and the Clean Air Act.
- (2) TR SO₂ Group 1 assurance provisions.
- (i). If total SO₂ emissions during a control period in a given year from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state exceed the state assurance level, then the owners and operators of such sources and units in each group of one or more sources and units having a common designated representative for such control period, where the common designated representative's share of such SO₂ emissions during such control period exceeds the common designated representative's assurance level for the state and such control period, shall hold (in the assurance account established for the owners and operators of such group) TR SO₂ Group 1 allowances available for deduction for such control period under 40 CFR 97.625(a) in an amount equal to two times the product (rounded to the nearest whole number), as determined by the Administrator in accordance with 40 CFR 97.625(b), of multiplying—
 - (A). The quotient of the amount by which the common designated representative's share of such SO₂ emissions exceeds the common designated representative's assurance level divided by the sum of the amounts, determined for all common designated representatives for such sources and units in the state for such control period, by which each common designated representative's share of such SO₂ emissions exceeds the respective common designated representative's assurance level; and
 - (B). The amount by which total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state for such control period exceed the state assurance level.
 - (ii). The owners and operators shall hold the TR SO₂ Group 1 allowances required under paragraph (c)(2)(i) above, as of midnight of November 1 (if it is a business day), or midnight of the first business day thereafter (if November 1 is not a business day), immediately after such control period.
 - (iii). Total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period in a given year exceed the state assurance level if such total SO₂ emissions exceed the sum, for such control period, of the state SO₂ Group 1 trading budget under 40 CFR 97.610(a) and the state's variability limit under 40 CFR 97.610(b).
 - (iv). It shall not be a violation of 40 CFR part 97, subpart CCCCC or of the Clean Air Act if total SO₂ emissions from all TR SO₂ Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceed the state assurance level or if a common designated representative's share of total SO₂ emissions from the TR SO₂

Group 1 units at TR SO₂ Group 1 sources in the state during a control period exceeds the common designated representative's assurance level.

- (v). To the extent the owners and operators fail to hold TR SO₂ Group 1 allowances for a control period in a given year in accordance with paragraphs (c)(2)(i) through (iii) above,
 - (A). The owners and operators shall pay any fine, penalty, or assessment or comply with any other remedy imposed under the Clean Air Act; and
 - (B). Each TR SO₂ Group 1 allowance that the owners and operators fail to hold for such control period in accordance with paragraphs (c)(2)(i) through (iii) above and each day of such control period shall constitute a separate violation of 40 CFR part 97, subpart CCCCC and the Clean Air Act.

(3) Compliance periods.

- (i). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(1) above for the control period starting on the later of January 1, 2015 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.
- (ii). A TR SO₂ Group 1 unit shall be subject to the requirements under paragraph (c)(2) above for the control period starting on the later of January 1, 2017 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 97.630(b) and for each control period thereafter.

(4) Vintage of allowances held for compliance.

- (i). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraph (c)(1)(i) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for such control period or a control period in a prior year.
- (ii). A TR SO₂ Group 1 allowance held for compliance with the requirements under paragraphs (c)(1)(ii)(A) and (2)(i) through (iii) above for a control period in a given year must be a TR SO₂ Group 1 allowance that was allocated for a control period in a prior year or the control period in the given year or in the immediately following year.

(5) Allowance Management System requirements. Each TR SO₂ Group 1 allowance shall be held in, deducted from, or transferred into, out of, or between Allowance Management System accounts in accordance with 40 CFR part 97, subpart CCCCC.

(6) Limited authorization. A TR SO₂ Group 1 allowance is a limited authorization to emit one ton of SO₂ during the control period in one year. Such authorization is limited in its use and duration as follows:

- (i). Such authorization shall only be used in accordance with the TR SO₂ Group 1 Trading Program; and
- (ii). Notwithstanding any other provision of 40 CFR part 97, subpart CCCCC, the Administrator has the authority to terminate or limit the use and duration of such authorization to the extent the Administrator determines is necessary or appropriate to implement any provision of the Clean Air Act.

(7) Property right. A TR SO₂ Group 1 allowance does not constitute a property right.

(d) Title V permit revision requirements.

- (1) No title V permit revision shall be required for any allocation, holding, deduction, or transfer of TR SO₂ Group 1 allowances in accordance with 40 CFR part 97, subpart CCCCC.
- (2) This permit incorporates the TR emissions monitoring, recordkeeping and reporting requirements pursuant to 40 CFR 97.630 through 97.635, and the requirements for a continuous emission monitoring system (pursuant to 40 CFR part 75, subparts B and H), an excepted monitoring system (pursuant to 40 CFR part 75, appendices D and E), a low mass emissions excepted monitoring methodology (pursuant to 40 CFR part 75.19), and an alternative monitoring system (pursuant to 40 CFR part 75, subpart E). Therefore, the Description of TR Monitoring Provisions table for units identified in this permit may be added to, or changed, in this title V permit using minor permit modification procedures in accordance with 40 CFR 97.606(d)(2) and 70.7(e)(2)(i)(B) or 71.7(e)(1)(i)(B).

(e) Additional recordkeeping and reporting requirements.

- (1) Unless otherwise provided, the owners and operators of each TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall keep on site at the source each of the following documents (in hardcopy or electronic format) 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 Administrator.
 - (i). The certificate of representation under 40 CFR 97.616 for the designated representative for the source and each TR SO₂ Group 1 unit 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 certificate of representation and documents are superseded because of the submission of a new certificate of representation under 40 CFR 97.616 changing the designated representative.
 - (ii). All emissions monitoring information, in accordance with 40 CFR part 97, subpart CCCCC.
 - (iii). Copies of all reports, compliance certifications, and other submissions and all records made or required under, or to demonstrate compliance with the requirements of, the TR SO₂ Group 1 Trading Program.
- (2) The designated representative of a TR SO₂ Group 1 source and each TR SO₂ Group 1 unit at the source shall make all submissions required under the TR SO₂ Group 1 Trading Program, except as provided in 40 CFR 97.618. This requirement does not change, create an exemption from, or otherwise affect the responsible official submission requirements under a title V operating permit program in 40 CFR parts 70 and 71.

(f) Liability.

- (1) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 source or the designated representative of a TR SO₂ Group 1 source shall also apply to the owners and operators of such source and of the TR SO₂ Group 1 units at the source.
- (2) Any provision of the TR SO₂ Group 1 Trading Program that applies to a TR SO₂ Group 1 unit or the designated representative of a TR SO₂ Group 1 unit shall also apply to the owners and operators of such unit.

(g) Effect on other authorities.

No provision of the TR SO₂ Group 1 Trading Program or exemption under 40 CFR 97.605 shall be construed as exempting or excluding the owners and operators, and the designated representative, of a TR SO₂ Group 1 source or TR SO₂ Group 1 unit from compliance with

any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act.



AIR QUALITY BUREAU
Wallace State Office Bldg.
502 E 9th St.
Des Moines, IA 50319-0034

Phase II Acid Rain Permit

Issued to: IPL/Burlington Generating Station
Operated by: Alliant Energy
ORIS code: 1104
Effective: June 4, 2018 through June 3, 2023

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Operating Permits Section

6/11/2018

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

		2018	2019	2020	2021	2022	2023
Unit 1	SO ₂ allowances, under Table 2 of 40 CFR part 73.	4507*	4507*	4507*	4507*	4507*	4507*
	NO _x limit	<p>Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a standard emissions limitation compliance plan for Unit 1. The NO_x compliance plan is effective beginning June 4, 2018 through June 3, 2023. 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 76.5(a)(1), which is 0.45 lbs/mmBtu for tangentially 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 3 of the Phase II SO₂ and NO_x permit.

4) Permit Application: Attached.

Permit Requirements**STEP 3**

Read the standard requirements.

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

- (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
- (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

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

- (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
- (ii) Have an Acid Rain Permit.

Monitoring Requirements

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

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

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

Sulfur Dioxide Requirements

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

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

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

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

- (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
- (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

Sulfur Dioxide Requirements, Cont'd.**STEP 3, Cont'd.**

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

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

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:

(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and

(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:

(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

Recordkeeping and Reporting Requirements, Cont'd.**STEP 3, Cont'd.**

- (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
 - (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

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

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:

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

Facility (Source) Name (from STEP 1)

Effect on Other Authorities, Cont'd.

to applicable National Ambient Air Quality Standards or State Implementation Plans;

STEP 3, Cont'd.

(2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

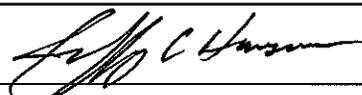
STEP 4

Read the certification statement, sign, and date.

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

Name **Jeffrey C Hanson**

Signature



Date

APRIL 13, 2016



Instructions for the Acid Rain Program Permit Application

The Acid Rain Program requires the designated representative to submit an Acid Rain permit application for each source with an affected unit. A complete Certificate of Representation must be received by EPA before the permit application is submitted to the title V permitting authority. A complete Acid Rain permit application, once submitted, is binding on the owners and operators of the affected source and is enforceable in the absence of a permit until the title V permitting authority either issues a permit to the source or disapproves the application.

Please type or print. If assistance is needed, contact the title V permitting authority.

STEP 1 A Plant Code is a 4 or 5 digit number assigned by the Department of Energy=s (DOE) Energy Information Administration (EIA) to facilities that generate electricity. For older facilities, "Plant Code" is synonymous with "ORISPL" and "Facility" codes. If the facility generates electricity but no Plant Code has been assigned, or if there is uncertainty regarding what the Plant Code is, contact EIA at (202) 586-4325 or (202) 586-2402.

STEP 2 In column "a," identify each unit at the facility by providing the appropriate unit identification number, consistent with the identifiers used in the Certificate of Representation and with submissions made to DOE and/or EIA. Do not list duct burners. For new units without identification numbers, owners and operators must assign identifiers consistent with EIA and DOE requirements. Each Acid Rain Program submission that includes the unit identification number(s) (e.g., Acid Rain permit applications, monitoring plans, quarterly reports, etc.) should reference those unit identification numbers in exactly the same way that they are referenced on the Certificate of Representation.

Submission Deadlines

For new units, an initial Acid Rain permit application must be submitted to the title V permitting authority 24 months before the date the unit commences operation. Acid Rain permit renewal applications must be submitted at least 6 months in advance of the expiration of the acid rain portion of a title V permit, or such longer time as provided for under the title V permitting authority=s operating permits regulation.

Submission Instructions

Submit this form to the appropriate title V permitting authority. If you have questions regarding this form, contact your local, State, or EPA Regional Acid Rain contact, or call EPA's Acid Rain Hotline at (202) 343-9620.

Paperwork Burden Estimate

The public reporting and record keeping burden for this collection of information is estimated to average 8 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. **Do not send the completed form to this address.**



Acid Rain NO_x Compliance Plan

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

This submission is: New Revised

STEP 1

Indicate plant name, State, and Plant code from the current Certificate of Representation covering the facility.

Plant Name	State	Plant Code
Burlington Generating Station	IA	1104

STEP 2

Identify each affected Group 1 and Group 2 boiler using the unit IDs from the current Certificate of Representation covering the facility. Also indicate the boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom, and select the compliance option for each unit by making an 'X' in the appropriate row and column.

	ID# 1	ID#	ID#	ID#	ID#	ID#
	Type T	Type	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for <u>Phase I</u> dry bottom wall-fired boilers)						
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for <u>Phase I</u> tangentially fired boilers)	X					
(c) Standard annual average emission limitation of 0.46 lb/mmBtu (for <u>Phase II</u> dry bottom wall-fired boilers)						
(d) Standard annual average emission limitation of 0.40 lb/mmBtu (for <u>Phase II</u> tangentially fired boilers)						
(e) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)						
(f) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)						
(g) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)						
(h) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)						

STEP 2, cont'd

Plant Name (From Step 1)
Burlington Generating Station

	ID# 1	ID#	ID#	ID#	ID#	ID#
	Type T	Type	Type	Type	Type	Type
(i) NO _x Averaging Plan (include NO _x Averaging form)						
(j) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)						
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO _x Averaging (check the NO _x Averaging Plan box and include NO _x Averaging Form)						
(l) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)						

STEP 3: Identify the first calendar year in which this plan will apply.

January 1, 2016

STEP 4: Read the special provisions and certification, enter the name of the designated representative, sign and date.

Special Provisions

General. This source is subject to the standard requirements in 40 CFR 72.9. These requirements are listed in this source's Acid Rain Permit.

Certification

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

Name Jeffrey C. Hanson	
Signature 	Date 1/5/16