

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

**Name of Permitted Facility: MidAmerican Energy Company –
Louisa Station**

Facility Location: 8602 172nd Street, Muscatine, IA 52761

Air Quality Operating Permit Number: 98-TV-029R2

Expiration Date: September 5, 2018

Permit Renewal Application Deadline: March 5, 2018

EIQ Number: 92-2730

Facility File Number: 58-07-001

Responsible Official

Name: Mr. Douglas H Haiston

Title: General Manager

Mailing Address: 8602 172nd Street, Muscatine, IA 52761

Phone #: (563) 262-2865

Permit Contact Person for the Facility

Name: Janelle Spies

Title: Environmental Coordinator

Mailing Address: 8602 172nd Street, Muscatine, IA 52761

Phone #: (563) 262-2884

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

Date

Table of Contents

I. Facility Description and Equipment List	4
II. Plant-Wide Conditions	7
III. Emission Point-Specific Conditions.....	11
IV. General Conditions.....	72
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	
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. Appendices.....	86
Appendix A: NSPS and NESHAP.....	86
Appendix B: Acid Rain.....	87
Appendix C: CAIR.....	96

Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU	emission unit
gr./dscf	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
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
NESHAP	National Emission Standards for Hazardous Air Pollutants
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
USEPA.....	United States Environmental Protection Agency

Pollutants

PM.....	particulate matter
PM ₁₀	particulate matter ten 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: MidAmerican Energy Company – Louisa Station

Permit Number: 98-TV-029R2

Facility Description: Electric Services (SIC 4911)

Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-1	EU-1	Utility Boiler Natural Gas	05-A-031-P2
	EU-1	Utility Boiler #2 Fuel Oil	05-A-031-P2
	EU-1	Utility Boiler Pulverized Coal, Dry Bottom	05-A-031-P2
EP-2	EU-2	Auxiliary Boiler #1 Natural Gas	97-A-979-P2
	EU-2	Auxiliary Boiler #1 Fuel Oil	97-A-979-P2
EP-3	EU-3	Auxiliary Boiler #2 Natural Gas	97-A-980-P2
	EU-3	Auxiliary Boiler #2 Fuel Oil	97-A-980-P2
EP-4	EU-4	Emergency Internal Combustion Engine Turbine #1	97-A-981-P2
EP-5	EU-5	Emergency Internal Combustion Engine Turbine #2	97-A-982-P2
EP-7	EU-7	Rotary Dumper #1	80-A-019-P2
EP-7A	EU-7A	Rotary Dumper #2	80-A-020-P2
EP-8	EU-8	Transfer Tower	80-A-015-P1
EP-9	EU-9	Crusher House with Coal Dust Pneumatic Conveying	80-A-016-P2
EP-10	EU-10	East Coal Silos	80-A-018-P2
EP-11	EU-11	West Coal Silos	80-A-017-P2
EP-12	EU-12A	3 Belt to Elevator Belt	None
	EU-12B	Elevator Belt to Boom Belt	None
	EU-12C	Stacker	None
	EU-12D	Boom Belt to 3 Belt	None
	EU-12E	Reclaim Wheel	None
EP-13	EU-13	Coal Handling - Stock Out Pile	None
EP-16	EU-16A	Coal Handling, Coal Pile	None
	EU-16B	Coal Handling, Bulldozer	None
EP-23	EU-21	Gasoline Underground Storage Tank	None
EP-32	EU-37	Diesel Fire Pump Engine	None
EP-36	EU-39B	Flyash Silo Unloading Chute #101	None
EP-37	EU-39C	Flyash Silo Unloading Chute #102	None
EP-48	EU-55	LGS Bottom Ash Pond	None
EP-57	EU-57A	Ash Pile Dumping - FGD Waste	None
	EU-57B	Ash Grading	None
	EU-57C	Ash Pile Wind Erosion	None
	EU-57D	Ash Pile Dumping - Flyash	None
EP-58	EU-58	Ash Haul Road	None
EP-070	EU-070	FGD Waste Silo	06-A-005-P1

Emission Point Number	Emission Unit Number	Emission Unit Description	DNR Construction Permit Number
EP-071	EU-071	Flyash/FGD Waste Vacuum Exhauster #1	06-A-006-P1
EP-072	EU-072	Flyash/FGD Waste Vacuum Exhauster #2	06-A-007-P1
EP-073	EU-073	Flyash/FGD Waste Vacuum Exhauster #3	07-A-1077-P
EP-074	EU-074	Lime Unloading Vacuum System Exhauster #1	06-A-009-P1
EP-075	EU-075	Lime Unloading Vacuum System Exhauster #2	06-A-010-P1
EP-077	EU-077	Lime Silo	06-A-012-P2
EP-078	EU-078	Recycle Ash Silo	06-A-013-P1
EP-079	EU-079	Recycle Ash Vacuum System Exhauster #1	06-A-014-P1
EP-080	EU-080	Recycle Ash Vacuum System Exhauster #2	06-A-015-P1
EP-081	EU-081	Recycle Ash Vacuum System Exhauster #3	06-A-016-P1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
EU-14	Coal Reclaim Pit
EU-17	Fuel Oil Storage Tank 101
EU-19	Diesel Fuel Tank 1
EU-20	Underground Diesel Fuel Tank
EU-22	Glycol Storage Tank
EU-23	Waste Oil Storage Tank
EU-24A	Oil/Waste Separator 101
EU-24B	Oil/Waste Separator 102
EU-24C	Oil/Waste Separator 103
EU-30	Turbine Lube Oil Vapor Extractor
EU-32	Boiler Feed Pump 101 Vapor Extractor
EU-33	Boiler Feed Pump 102 Vapor Extractor
EU-44	Welding
EU-45	Bead Blaster
EU-46	Fugitive Outdoor Sandblasting
EU-47	Parts Washer
EU-56	Vacuum System
EU-59	Fire Pump Fuel Tank
EU-60	Emergency Generator 1 Fuel Tank
EU-61	Emergency Generator 2 Fuel Tank
EU-62	Crusher House Reject Chute
EU-63	Transfer House Reject Chute
EU-82	Waste Ash Silo Loadout
EU-83	SDA Hopper Dumpster
EU-84	Lime Slurry Grit Screen Dumpster
EU-85	Recycle Ash Grit Screen Dumpster

II. Plant-Wide Conditions

Facility Name: MidAmerican Energy Company – Louisa Station
Permit Number: 98-TV029R2

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

Permit Duration

The term of this permit is: Five years from permit issuance
Commencing on: September 6, 2013
Ending on: September 5, 2018

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 after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a"

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

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

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

40 CFR 60 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EP-1, EP-4, EP-5, EP-7, EP-7A, EP-8, EP-9, EP-10, and EP-11.

See Appendix A for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart A
567 IAC 23.1(2)

40 CFR 60 Subpart D Requirements

This facility is subject to Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction Is Commenced After August 17, 1971. The affected unit is EP-1.

See Appendix A for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

Authority for Requirements: 40 CFR 60 Subpart D
567 IAC 23.1(2) "a"

40 CFR 60 Subpart Y Requirements

This facility is subject to Standards of Performance for Coal Preparation Plants and Processing Plants. The affected units are EP-7, EP-7A, EP-8, EP-9, EP-10, and EP-11.

See Appendix A for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 60 Subpart GG Requirements

This facility is subject to Standards of Performance for Stationary Gas Turbines. The affected units are EP-4 and EP-5.

See Appendix A for the link of the Standard.

Applicable requirements are incorporated in the Emission Point Specific conditions.

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

40 CFR 63 Subpart A Requirements

This facility is an affected source and these General Provisions apply to the facility. The affected units are EP-1, EP-2, EP-3, EP-4, EP-5, and EP-32.

See Appendix A for the link of the Standard.

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

40 CFR 63 Subpart YYYY Requirements

This facility is subject to National Emission Standards for National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines. The affected units are EP-4 and EP-5.

See Appendix A for the link of the Standard.

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

40 CFR 63 Subpart ZZZZ Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP). The affected unit is EP-32.

See Appendix A for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart ZZZZ

40 CFR 63 Subpart DDDDD Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63 Subpart DDDDD]. The affected unit is EP-2 and EP-3.

See Appendix A for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart DDDDD

40 CFR 63 Subpart UUUUU Requirements

This facility is subject to National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU]. The affected unit is EP-1.

See Appendix A for the link of the Standard.

Authority for Requirements: 40 CFR 63 Subpart UUUUU

III. Emission Point-Specific Conditions

Facility Name: MidAmerican Energy Company – Louisa Station

Permit Number: 98-TV-029R2

Emission Point ID Number: EP-1

Boiler Table -1

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-1	EU-1	Utility Boiler Natural Gas	Natural Gas	0.8 MMCF/hr
	EU-1	Utility Boiler #2 Fuel Oil	#2 Fuel Oil	5.9 1000 gal/hr
	EU-1	Utility Boiler Pulverized Coal, Dry Bottom	Coal	8624 MMBtu/hr

Boiler Table -2

EP	CE	CE Description	CEM*
EP-1	CE-1	Dry Electrostatic Precipitator	ME-1; ME-2; ME-3; ME-4; ME-5; ME-6
	CE-1B	Lime Spray Dryer Flue Gas Desulfurization	
	CE-1C	Baghouse	
	CE-2	Low NO _x Burners & Overfire Air	

*: ME-1 (SO₂); ME-2(NO_x); ME-3 (CO₂); ME-4 (Opacity); ME-5 (Flow); ME-6 (CO)

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.

Opacity:

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
10%	1-hr average	COMS	Iowa DNR Construction Permit 05-A-031-P2	BACT
20% ⁽¹⁾	6-min average	COMS	Iowa DNR Construction Permit 05-A-031-P2 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None

⁽¹⁾ Opacity shall not exceed 20% (6-minute average), except for one (1) 6-minute period per hour of not more than 27% opacity.

Particulate Matter (PM₁₀):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.027 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P2	BACT
1,019 ton/yr	12-month rolling total	Recordkeeping	DNR Construction Permit 05-A-031-P2	BACT
258.7 lb/hr	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P2	NAAQS

Particulate Matter (PM):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.03 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P2	BACT, Federal PM
0.027 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P2	BACT, State PM
1,019 ton/yr	12-month rolling total	Recordkeeping	DNR Construction Permit 05-A-031-P2	BACT
43 ng/J heat input (0.10 lb/MMBtu)	3-test run average	Stack Testing	DNR Construction Permit 05-A-031-P2 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	Federal PM

Sulfur Dioxide (SO₂):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.96 lb/MMBtu ⁽¹⁾	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P2	BACT
520 ng/J heat input ⁽²⁾ (1.2 lb/MMBtu)	3-hr rolling average	CEMS	DNR Construction Permit 05-A-031-P2 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None
3,449.6 lb/hr ⁽³⁾	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P2	NAAQS
Acid Rain Limits	-	-	DNR Construction Permit 05-A-031-P2 Phase II Acid Rain Permit	See Appendix

⁽¹⁾ This standard does not including periods of startup, shutdown, and malfunction.

⁽²⁾ 520 ng/J = 1.20 lb/MMBtu. This was derived from solid fossil fuel. See Construction Permit 05-A-031-P2 Section 10b (page 6-7) or 40 CFR §60.43Da (a) for sulfur dioxide (SO₂) for detailed calculations.

⁽³⁾ Emission limit carried over from EPA Prevention of Significant Deterioration (PSD) permit. The SO₂ emissions of this unit shall not exceed:

- 153,600 lb/calendar day and/or
- 6,400 lb/hr for more than five (5) hours in any calendar day.

Nitrogen Oxides (NO_x):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.5 lb/MMBtu ⁽¹⁾	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P2	BACT
300 ng/J heat input ⁽²⁾ (0.70 lb/MMBtu)	3-hr rolling average	CEMS	DNR Construction Permit 05-A-031-P2 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None
1,724.8 lb/hr	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P2	NAAQS
7,555 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 05-A-031-P2	NAAQS
Acid Rain Limits	-	-	DNR Construction Permit 05-A-031-P2 Phase I Acid Rain Permit	See Appendix

⁽¹⁾ This standard does not including periods of startup, shutdown, and malfunction.

⁽²⁾ 300 ng/J = 0.70 lb/MMBtu. This was derived from solid fossil fuel. See Construction Permit 05-A-031-P2 Section 10b (page 6) or 40 CFR §60.43Da (a) for sulfur dioxide (NO_x) for detailed calculations.

Volatile Organic Compounds (VOC):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0036 lb/MMBtu	3-hr rolling average	Stack testing	DNR Construction Permit 05-A-031-P2	BACT
135.98 ton/yr	12-month rolling total	Recordkeeping	DNR Construction Permit 05-A-031-P2	BACT

Carbon Monoxide (CO):

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.42 lb/MMBtu	Calendar-day average	CEMS	DNR Construction Permit 05-A-031-P2	BACT
15,864 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 05-A-031-P2	BACT
3,622 lb/hr	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P2	NAAQS

Operational Limits & Requirements

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

Operating Limits

- A. This unit shall be limited to firing bituminous coal, sub-bituminous coal, #2 fuel oil, and natural gas.
- B. The sulfur (S) content of any coal fired in the unit shall not exceed 2.0 lb/MMBtu.
- C. MidAmerican Energy shall be responsible for the construction and use of a new stack at the Grain Processing Corporation (GPC), Muscatine, Iowa to handle the exhaust from the boilers prior to commencement of operation of the Louisa Generating Station. Such stack shall be constructed according to the specification in the agreement between MidAmerican Energy and the Grain Processing Corporation, dated July 6, 1979. Detailed plans and specifications, and a construction schedule for this proposed stack shall be submitted to the EPA or its delegate not later than January 1, 1980.
- D. A bag leak detection system must be installed to meet the following criteria:
 - D1. At least one detector must be located in each compartment of the baghouse.
 - D2. The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the manufacturer's written specifications and recommendations and in accordance with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997.
 - D3. The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less.
 - D4. The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.
 - D5. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.
 - D6. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.
 - D7. The system's instrumentation and alarm may be shared among detectors.
 - D8. The system's alarm shall sound no more than 5% of the operating time during a 6 month period.
- E. Trucks which haul either ash or sludge shall either be covered with a tarp or enclosed.
- F. The waste material collected by the fabric filter and stored in the FGD waste silo system shall be processed through a pug-mill during loadout to increase the material moisture content to a minimum of 20%. Water wagons shall be used to wet the waste material during disposal site grading activities.
- G. The following conditions are required on the haul roads when combusting bituminous coal at the facility to meet the BACT emission rates :
 - G1. Haul truck loads shall be enclosed or covered.
 - G2. For paved roads:
 - i. Fugitive emissions of paved haul roads shall be controlled to an effective

control efficiency of 80% by water flushing followed by sweeping. The control efficiency of 80% shall be achieved by water flushing followed by sweeping of the paved haul roads once per day. The water spray rate shall be a minimum of 0.23 gallons per square yard.

- ii. If water flushing followed by sweeping cannot be accomplished because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F, or conditions due to weather, in combination with the application of the water, could create hazardous driving conditions, then the water flushing and sweeping shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.
- iii. Water flushing and sweeping need not occur when a rain gage located at the site indicates that at least 0.2 inches of precipitation (water equivalent) has occurred within the preceding 24-hr time period or the paved road(s) will not be used on a given day.

G3. For unpaved roads:

- i. Fugitive emissions from unpaved haul roads shall be controlled by applying a chemical dust suppressant. A control efficiency of 95% shall be maintained on all unpaved haul roads. MidAmerican may elect to use any chemical dust suppressant that is capable of achieving the 95% control efficiency. In the event that the manufacturer or distributor of a chemical dust suppressant recommends different amounts of chemical dust suppressant or MidAmerican chooses to use a different chemical dust suppressant, MidAmerican shall notify DNR of the change in application rates and/or chemical dust suppressant and the manufacturer's/distributor's recommendations.
- ii. If the selected chemical dust suppressant cannot be applied because the ambient air temperature (as measured at the facility during daylight operating hours) will be less than 35°F, or conditions due to weather, in combination with the application of the chemical dust suppressant, could create hazardous driving conditions, then the chemical dust suppressant application shall be postponed and accomplished as soon after the scheduled date as the conditions preventing the application have abated.

- H. The owner or operator is not required to operate the Electrostatic Precipitator (ESP, CE-1) as long as the owner or operator is able to demonstrate compliance with the emission limits listed in permit without the ESP in operation (NOTE: the testing was completed on February 15, 2008).
- I. The owner or operator is allowed, but not required, to treat the coal supply with chemicals containing additives including a mineral composite of calcium silicate components, other calcium compounds containing iron and aluminum, and calcium bromide or calcium chloride.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall maintain records of SO₂ emissions for each calendar day and

shall submit a summary of such emissions to the Department within thirty (30) calendar days of the end of each calendar quarter.

- B. The owner or operator shall maintain records of the sulfur (S) content of all coal or combination of coals fired in the boiler.
- C. The owner or operator shall meet all applicable recordkeeping and reporting requirements under NSPS Subparts A and D.
- D. The following records must be maintained from the bag leak detection system:
 - D1. The date, time and duration of each system alarm.
 - D2. The time corrective action was initiated and completed.
 - D3. A brief description of the cause of the alarm and the corrective action.
 - D4. A record of the percent of operating time during each 6 month period that the alarm sounds. In calculating the operating time percentage:
 - i. If an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.
 - ii. If corrective action is required, each alarm shall be counted as a minimum of 1 hour.
 - iii. If it takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken to initiate corrective action.
- E. The owner or operator shall keep records of whenever bituminous coal is combusted at the facility.
- F. When bituminous coal is combusted, a log shall be kept showing the following for haul roads:
 - F1. Paved roads:
 - i. Records of the applications shall be maintained and shall include
 - The dates of each application
 - The amount of water applied
 - The areas treated, and
 - The operator's initials.
 - ii. If water is not applied when scheduled then the records should so indicate and provide an explanation.
 - F2. Unpaved roads:
 - i. Records of the applications shall be maintained and shall include:
 - The dates of each application
 - The chemical dust suppressant used
 - The application intensity (gal/yd²)
 - Dilution ratio
 - The operator's initials, and
 - Documentation of road and weather conditions, if necessary.
 - ii. If the suppressant is not applied as planned, then the records should indicate so and provide an explanation.

Authority for Requirement: DNR Construction Permit 05-A-031-P2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart D – Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971.

Authority for Requirement: 40 CFR 60 Subpart D
DNR Construction Permit 05-A-031-P2

This emission point is subject to National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units [40 CFR 63 Subpart UUUUU].
Authority for Requirement: 40 CFR 63 Subpart UUUUU

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 610
Stack Opening, (inches, dia.): 360
Exhaust Flow Rate (scfm): 2,970,000
Exhaust Temperature (°F): 180
Discharge Style: Vertical Unobstructed
Authority for Requirement: DNR Construction Permit 05-A-031-P2

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

Monitoring Requirements

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

Stack Testing:

Pollutant – Particulate Matter (PM and PM10)
1st Stack Test to be completed by **09/05/2014**
2nd Stack Test to be completed between **03/05/2016 and 03/05/2017**
Test Method – see the table below

Pollutant	Test Run Time	Test Method
PM (State)	1 hour	40 CFR 60, Appendix A, Method 5 40 CFR 51, Appendix M, Method 202
PM10	1 hour	40 CFR 51, Appendix M, Method 201A with 202

Authority for Requirement: 567 IAC 22.108(3)

Mercury Emissions Testing and Monitoring (State Only)

EP-1 is subject to the mercury emissions testing and monitoring requirements in 567 IAC 25.3. The facility shall conduct stack testing, request for a Low Mass Emitter (LME) classification, or install and operate a continuous emissions monitoring system. Refer to 567 IAC 25.3 for complete and detailed requirements.

Authority for Requirement: 567 IAC 25.3

Continuous Emissions Monitoring:

Pollutant – Opacity

Operational Specifications – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Date of Initial System Calibration and Quality Assurance – 12/19/2007

Ongoing System Calibration/Quality Assurance – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Reporting & Record keeping – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Authority for Requirement – 567 IAC 25.1(1), 567 IAC 25.2, 567 IAC 23.1(2)

Pollutant – Sulfur Dioxide (SO₂)

Operational Specifications – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Date of Initial System Calibration and Quality Assurance – 01/03/2008

Ongoing System Calibration/Quality Assurance – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Reporting & Record keeping – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Authority for Requirement – 567 IAC 25.2, 567 IAC 23.1(2)

Pollutant – Nitrogen Oxides (NO_x)

Operational Specifications – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Date of Initial System Calibration and Quality Assurance – 01/03/2008

Ongoing System Calibration/Quality Assurance – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Reporting & Record keeping – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Authority for Requirement – 567 IAC 25.2, 567 IAC 23.1(2)

Pollutant – Carbon Monoxide (CO)

Operational Specifications – 40 CFR Part 60

Date of Initial System Calibration and Quality Assurance – 01/03/2008

Ongoing System Calibration/Quality Assurance – 40 CFR Part 60

Reporting & Record keeping – 40 CFR Part 60

Authority for Requirement – DNR Construction Permit 05-A-031-P2

Other Parameters:

Pollutant – Carbon Dioxide (CO₂)

Operational Specifications – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Date of Initial System Calibration and Quality Assurance – 01/03/2008

Ongoing System Calibration/Quality Assurance – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Authority for Requirement – 567 IAC 25.2 and 567 IAC 23.1(2)

Pollutant – Flow

Operational Specifications – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Date of Initial System Calibration and Quality Assurance – 01/03/2008

Ongoing System Calibration/Quality Assurance – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Reporting & Record keeping – 40 CFR Part 75, 40 CFR Part 60 Subpart A, 40 CFR Part 60 Subpart D

Authority for Requirement – 567 IAC 25.2 and 567 IAC 23.1(2)

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)

Compliance Assurance Monitoring Plan for EP-1

I. Background

A. Emissions Unit:

Description: Utility Boiler, Dry-Bottom Pulverized Coal Unit
Identification: EU-1
Facility: MidAmerican Energy Co. – Louisa Station

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

Regulation No.: Construction Permit 05-A-031-P2
PM10 Emission Limits: 0.027 lb/MMBtu; 1,019 ton/yr; 258.7 lb/hr
PM Emission Limits: 0.027 lb/MMBtu; 0.03 lb/MMBtu; 43 ng/J
Heat Input; 1,019 ton/yr
Opacity Emission Limits: 10%; 20%
Current Monitoring Requirements: Alarm of the Bag Leak Detection System

C. Control Technology: Fabric Filter

II. Monitoring Approach

A. Indicator

An alarm system will be used as an indicator.

B. Measurement Approach

The alarm system will sound automatically when an increase in related particulate matter emissions over a preset level is detected

C. Indicator Range

The alarm system shall sound no more than 5% of the operating time during a 6-month period.

D. Performance Criteria

Data representativeness: The alarm system will sound when the particulate matter emissions increase over the predetermined parameter.

Verification of operational status: The bag leak record will be kept for five years.

QA/QC practices and criteria: At least one detector must be located in compartment of the baghouse;

The bag leak detection system must be installed, operated, calibrated and maintained in a manner consistent with the guidance provided in "Fabric Filter Bag Leak Detection Guidance", EPA-454/R-98-015, September 1997;

The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 10 milligrams per actual cubic meter or less;

The bag leak detection system sensor must provide

output of relative or absolute particulate matter loadings; The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors;

The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative particulate matter emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel. The system's instrumentation and alarm may be shared among detectors;

The system's alarm shall sound no more than 5% of the operating time during a 6-month period.

Monitoring frequency and data Collection procedure:

The bag leak detection system shall operate continuously. Records of the readings shall be maintained for five years.

Emission Point ID Number: EP-2

Associated Equipment

Associated Emission Unit ID Numbers: EU-2
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-2
Emission Unit Description: Auxiliary Boiler #1
Raw Material/Fuel: #2 Fuel Oil or Natural Gas
Rated Capacity: 97.8 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: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 97-A-979-P2
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 12.51 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-979-P2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 97-A-979-P2
567 IAC 23.3(2) "b" (3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 98.26 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-979-P2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 27.68 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-979-P2

⁽²⁾ Standard is expressed as the average of three (3) runs.

Operational Limits & Requirements

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

Operating Limits

- A. The boiler is limited to combusting either natural gas or #2 fuel oil.
- B. The sulfur content of the #2 fuel oil shall not exceed 0.5% on a weight basis percentage.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The type of fuel used, on a daily basis, when the auxiliary boiler is operating.
- B. The sulfur content of the fuel oil.

Authority for Requirement: DNR Construction Permit 97-A-979-P2

NSPS and NESHAP Applicability

This emission point is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 80

Stack Opening, (inches, dia.): 53

Exhaust Flow Rate (acfm): 21,200

Exhaust Temperature (°F): 350

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 97-A-979-P2

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

Monitoring Requirements

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

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-3

Associated Equipment

Associated Emission Unit ID Numbers: EU-3
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-3
Emission Unit Description: Auxiliary Boiler #2
Raw Material/Fuel: #2 Fuel Oil or Natural Gas
Rated Capacity: 97.8 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: Opacity

Emission Limit(s): 40% ^{(1), (2)}

Authority for Requirement: DNR Construction Permit 97-A-980-P2
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

⁽²⁾An exceedance of the indicator opacity of 10% 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).

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 12.51 lb/hr ⁽³⁾

Authority for Requirement: DNR Construction Permit 97-A-980-P2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permit 97-A-980-P2
567 IAC 23.3(2) "b" (3)

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 98.26 lb/hr ⁽³⁾

Authority for Requirement: DNR Construction Permit 97-A-980-P2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 27.68 lb/hr ⁽³⁾

Authority for Requirement: DNR Construction Permit 97-A-980-P2

⁽³⁾ Standard is expressed as the average of three (3) runs.

Operational Limits & Requirements

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

Operating Limits

- A. The boiler is limited to combusting either natural gas or #2 fuel oil.
- B. The sulfur content of the #2 fuel oil shall not exceed 0.5% on a weight basis percentage.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The type of fuel used, on a daily basis, when the auxiliary boiler is operating.
- B. The sulfur content of the fuel oil.

Authority for Requirement: DNR Construction Permit 97-A-980-P2

NSPS and NESHAP Applicability

This emission point is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters [40 CFR Part 63 Subpart DDDDD].

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 80

Stack Opening, (inches, dia.): 53

Exhaust Flow Rate (acfm): 21,200

Exhaust Temperature (°F): 350

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 97-A-980-P2

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

Monitoring Requirements

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

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-4

Associated Equipment

Associated Emission Unit ID Numbers: EU-4
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-4
Emission Unit Description: Emergency Internal Combustion Engine Turbine #1
Raw Material/Fuel: Diesel
Rated Capacity: 16.44 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: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 97-A-981-P2
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.0 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-981-P2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 97-A-981-P2
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 8.42 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-981-P2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 72.5 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-981-P2

⁽²⁾ Standard is expressed as the average of three (3) runs.

Operational Limits & Requirements

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

Operating Limits

A. The unit is limited to combusting #2 fuel oil.

B. The sulfur content of the #2 fuel oil shall not exceed 0.5% on a weight basis percentage.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The sulfur content of the fuel oil, as required by 40 CFR §60.334(b) and §60.335(d), (e).

Authority for Requirement: DNR Construction Permit 97-A-981-P2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart GG – Standards of Performance for Stationary Gas Turbines.

This emission point is subject to NESHAP Subpart A – General Provisions and Subpart YYYY – National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.

Authority for Requirement: DNR Construction Permit 97-A-981-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 66

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (acfm): 28,000

Exhaust Temperature (°F): 935

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 97-A-981-P2

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

Monitoring Requirements

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

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-5

Associated Equipment

Associated Emission Unit ID Numbers: EU-5
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-5
Emission Unit Description: Emergency Internal Combustion Engine Turbine #2
Raw Material/Fuel: Diesel
Rated Capacity: 16.44 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: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 97-A-982-P2
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 1.0 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-982-P2

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 97-A-982-P2
567 IAC 23.3(2) "a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit(s): 8.42 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-982-P2

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit(s): 72.5 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 97-A-982-P2

⁽²⁾ Standard is expressed as the average of three (3) runs.

Operational Limits & Requirements

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

Operating Limits

A. The unit is limited to combusting #2 fuel oil.

B. The sulfur content of the #2 fuel oil shall not exceed 0.5% on a weight basis percentage.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

A. The sulfur content of the fuel oil, as required by 40 CFR §60.334(b) and §60.335(d), (e).

Authority for Requirement: DNR Construction Permit 97-A-982-P2

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart GG – Standards of Performance for Stationary Gas Turbines.

This emission point is subject to NESHAP Subpart A – General Provisions and Subpart YYYY – National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.

Authority for Requirement: DNR Construction Permit 97-A-982-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 66

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (acfm): 28,000

Exhaust Temperature (°F): 935

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 97-A-982-P2

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

Monitoring Requirements

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

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-7

Associated Equipment

Associated Emission Unit ID Numbers: EU-7
Emissions Control Equipment ID Number: CE-3
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-7
Emission Unit Description: Rotary Dumper #1
Raw Material/Fuel: Coal
Rated Capacity: 3,500 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: Opacity

Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permit 80-A-019-P2

40 CFR 60 Subpart Y

567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 8.36 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-019-P2

Pollutant: Particulate Matter (PM, Federal)

Emission Limit(s): 0.013 gr/dscf⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-019-P2

⁽¹⁾Standard is expressed as the average of 3 runs

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 80-A-019-P2

567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-019-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 22.23

Stack Opening, (inches): 70.3×39.2

Exhaust Flow Rate (acfm): 75,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 80-A-019-P2

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

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-7A

Associated Equipment

Associated Emission Unit ID Numbers: EU-7A
Emissions Control Equipment ID Number: CE-3A
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-7A
Emission Unit Description: Rotary Dumper #2
Raw Material/Fuel: Coal
Rated Capacity: 3,500 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: Opacity

Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permit 80-A-020-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 8.36 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-020-P2

Pollutant: Particulate Matter (PM, Federal)

Emission Limit(s): 0.013 gr/dscf⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-020-P2

⁽¹⁾Standard is expressed as the average of 3 runs

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 80-A-020-P2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-020-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 22.23

Stack Opening, (inches): 70.3×39.2

Exhaust Flow Rate (acfm): 75,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: DNR Construction Permit 80-A-020-P2

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

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-8

Associated Equipment

Associated Emission Unit ID Numbers: EU-8
Emissions Control Equipment ID Number: CE-4
Emissions Control Equipment Description: Dust Suppressant
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-8
Emission Unit Description: Transfer Tower
Raw Material/Fuel: Coal
Rated Capacity: 3,500 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: Opacity
Emission Limit(s): No Visible Emissions ⁽¹⁾
Authority for Requirement: DNR Construction Permit 80-A-015-P1

⁽¹⁾ BACT Standard.

Pollutant: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 80-A-015-P1
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 2.39 lb/hr; 0.001 gr/dscf
Authority for Requirement: DNR Construction Permit 80-A-015-P1

Pollutant: Particulate Matter (PM)
Emission Limit(s): 2.39 lb/hr; 0.001 gr/dscf
Authority for Requirement: DNR Construction Permit 80-A-015-P1

Operational Limits & Requirements

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

Operating Limits

- A. A weekly no visible opacity observance shall be done for Transfer House (Tower) 1.
- B. The following conditions are required on this emission unit as BACT:
 - B1. Emissions shall be monitored to meet the ambient dust level of 2.0 mg/m³ in the following manner:

Once per year for three years following the installation of the passive control system. If after three years, the 2.0 mg/m³ has not been exceeded then no further testing will be required for the issuance of this permit. If, however, an exceedance did occur during the three initial tests, then an additional one test per year for the next three years will be required (NOTE: the testing was completed on October 11, 2007).

- C. The facility shall submit all final plans and specifications for this emission unit and its respective control equipment to the Department within thirty (30) days of the start of construction. These final plans and specifications will be made available in the Records Center of the Air Quality Bureau.

Reporting and Recordkeeping

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. Records of the monitoring shall be maintained.

Authority for Requirement: DNR Construction Permit 80-A-015-P1

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-015-P1

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-9

Associated Equipment

Associated Emission Unit ID Numbers: EU-9
Emissions Control Equipment ID Number: CE-4; CE-7
Emissions Control Equipment Description: Dust Suppressant (CE-4) & Baghouse (CE-7)
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-9
Emission Unit Description: Crusher House with Coal Dust Pneumatic Conveying
Raw Material/Fuel: Coal
Rated Capacity: 1,800 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: Opacity
Emission Limit(s): 20%
Authority for Requirement: DNR Construction Permit 80-A-016-P2
40 CFR 60 Subpart Y
567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 1.94 lb/hr⁽¹⁾
Authority for Requirement: DNR Construction Permit 80-A-016-P2

Pollutant: Particulate Matter (PM, Federal)
Emission Limit(s): 0.013 gr/dscf^{(1), (2)}
Authority for Requirement: DNR Construction Permit 80-A-016-P2

⁽¹⁾Standard is expressed as the average of three (3) runs.
⁽²⁾BACT standard.

Pollutant: Particulate Matter (PM, State)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 80-A-016-P2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-016-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 105.75

Stack Opening, (inches): 22.8×39.6

Exhaust Flow Rate (scfm): 17,400

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 80-A-016-P2

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

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-10

Associated Equipment

Associated Emission Unit ID Numbers: EU-10

Emissions Control Equipment ID Number: CE-4; CE-8

Emissions Control Equipment Description: Dust Suppressant (CE-4) & Baghouse (CE-8)

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-10

Emission Unit Description: East Coal Silos

Raw Material/Fuel: Coal

Rated Capacity: 450 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: Opacity

Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permit 80-A-018-P2

40 CFR 60 Subpart Y

567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 2.09 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-018-P2

Pollutant: Particulate Matter (PM, Federal)

Emission Limit(s): 0.013 gr/dscf^{(1), (2)}

Authority for Requirement: DNR Construction Permit 80-A-018-P2

⁽¹⁾Standard is expressed as the average of three (3) runs.

⁽²⁾BACT standard.

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 80-A-018-P2

567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-018-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 187.5

Stack Opening, (inches, dia.): 27×40

Exhaust Flow Rate (acfm): 18,800

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 80-A-018-P2

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

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-11

Associated Equipment

Associated Emission Unit ID Numbers: EU-11

Emissions Control Equipment ID Number: CE-4; CE-9

Emissions Control Equipment Description: Dust Suppressant (CE-4) & Baghouse (CE-9)

Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-11

Emission Unit Description: West Coal Silos

Raw Material/Fuel: Coal

Rated Capacity: 450 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: Opacity

Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permit 80-A-017-P2

40 CFR 60 Subpart Y

567 IAC 23.1(2) "v"

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 3.18 lb/hr⁽¹⁾

Authority for Requirement: DNR Construction Permit 80-A-017-P2

Pollutant: Particulate Matter (PM, Federal)

Emission Limit(s): 0.013 gr/dscf^{(1), (2)}

Authority for Requirement: DNR Construction Permit 80-A-017-P2

⁽¹⁾Standard is expressed as the average of three (3) runs.

⁽²⁾BACT standard.

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 80-A-017-P2

567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permit 80-A-017-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 187.5

Stack Opening, (inches, dia.): 30×44

Exhaust Flow Rate (scfm): 28,500

Exhaust Temperature (°F): Ambient

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 80-A-017-P2

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

Monitoring Requirements

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

Visible emissions shall be observed on a weekly basis to ensure that there are no visible emissions when the emission unit on this emission point is at or near full capacity. 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 observation of the violation.

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

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

Authority for Requirement: 567 IAC 22.108(14)

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-12

Associated Equipment

Associated Emission Unit ID Numbers: EU-12A; EU-12B; EU-12C; Eu-12D; EU-12E
Emissions Control Equipment ID Number: CE-4
Emissions Control Equipment Description: Dust Suppressant
Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-12	EU-12A	3 Belt to Elevator Belt	Coal	3,500 ton/hr
	EU-12B	Elevator Belt to Boom Belt	Coal	3,500 ton/hr
	EU-12C	Stacker	Coal	3,500 ton/hr
	EU-12D	Boom Belt to 3 Belt	Coal	1,800 ton/hr
	EU-12E	Reclaim Wheel	Coal	1,800 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(s): 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"

Operational Limits & Requirements

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

Operating Limits are not required 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-13

Associated Equipment

Associated Emission Unit ID Numbers: EU-13
Emissions Control Equipment ID Number: CE-4; CE-11
Emissions Control Equipment Description: Dust Suppressant (CE-4) & Water Spray (CE-11)
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-13
Emission Unit Description: Coal Handling Stockout Pile
Raw Material/Fuel: Coal
Rated Capacity: 3,500 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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-16

Associated Equipment

Associated Emission Unit ID Numbers: EU-16A; EU-16B

Emissions Control Equipment ID Number: CE-4; CE-11

Emissions Control Equipment Description: Dust Suppressant (CE-4) & Water Spray (CE-11)

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-16	EU-16A	Coal Handling, Coal Pile	Coal	55 Acres
	EU-16B	Coal Handling, Bulldozer	Coal	3.0 Vehicle/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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-23

Associated Equipment

Associated Emission Unit ID Numbers: EU-21
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-21
Emission Unit Description: Gasoline Underground Storage Tank
Raw Material/Fuel: Gasoline
Rated Capacity: 720 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.

Emission limits are not required at this time.

Operational Limits & Requirements

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

Operational limits are not required 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-32

Associated Equipment

Associated Emission Unit ID Numbers: EU-37
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-37
Emission Unit Description: Diesel Fire Pump Engine
Raw Material/Fuel: Diesel
Rated Capacity: 20 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.

Emission limits are not required at this time.

Operational Limits & Requirements

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

Operational limits are not required at this time.

NSPS and NESHAP Applicability

This emission point is subject to National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP) [40 CFR Part 63 Subpart ZZZZ].
Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ

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-36

Associated Equipment

Associated Emission Unit ID Numbers: EU-39B
Emissions Control Equipment ID Number: CE-15
Emissions Control Equipment Description: Telescopic Chute Exhaust Hood #101
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-39B
Emission Unit Description: Flyash Silo Unloading Chute #101
Raw Material/Fuel: Flyash
Rated Capacity: 23.0 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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-37

Associated Equipment

Associated Emission Unit ID Numbers: EU-39C
Emissions Control Equipment ID Number: CE-17
Emissions Control Equipment Description: Telescopic Chute Exhaust Hood #102
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-39C
Emission Unit Description: Flyash Silo Unloading Chute #102
Raw Material/Fuel: Flyash
Rated Capacity: N/A

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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-48

Associated Equipment

Associated Emission Unit ID Numbers: EU-55
Emissions Control Equipment ID Number: CE-18
Emissions Control Equipment Description: Ash Pond Water
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-55
Emission Unit Description: LGS Bottom Ash Pond
Raw Material/Fuel: Bottom Ash
Rated Capacity: 42.0 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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-57

Associated Equipment

Associated Emission Unit ID Numbers: EU-57A, EU-57B; EU-57C; EU-57D

Emissions Control Equipment ID Number: CE-11

Emissions Control Equipment Description: Water Spray

Continuous Emissions Monitors ID Numbers: None

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-57	EU-57A	Ash Pile Dumping - FGD Waste	Flyash/FGD Waste	92.9 ton/hr
	EU-57B	Ash Grading	Ash	4.0 VMT/hr
	EU-57C	Ash Pile Wind Erosion	Flyash	31.0 Acres
	EU-57D	Ash Pile Dumping - Flyash	Flyash	146,011.3 ton/yr

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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-58

Associated Equipment

Associated Emission Unit ID Numbers: EU-58
Emissions Control Equipment ID Number: None
Emissions Control Equipment Description: NA
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-58
Emission Unit Description: Ash Haul Road
Raw Material/Fuel: Flyash
Rated Capacity: N/A

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(s): 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"

Operational Limits & Requirements

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

Operational limits are not required 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-070

Associated Equipment

Associated Emission Unit ID Numbers: EU-070
Emissions Control Equipment ID Number: CE-070
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-070
Emission Unit Description: Flyash/FGD Waste Silo
Raw Material/Fuel: Flyash/FGD Waste
Rated Capacity: 2,841 tons

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.

BACT Limits:

Pollutant: Opacity
Emission Limit(s): No Visible Emissions
Authority for Requirement: DNR Construction Permit 06-A-005-P1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.005 gr/dscf ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-005-P1

Pollutant: Particulate Matter (PM, State)
Emission Limit(s): 0.005 gr/dscf ^{(1), (2)}
Authority for Requirement: DNR Construction Permit 06-A-005-P1

⁽¹⁾Standard is expressed as the average of three (3) runs.

⁽²⁾Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-005-P1
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.14 lb/hr ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-005-P1

⁽²⁾Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-005-P1
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 136

Stack Opening, (inches, dia.): 8×30

Exhaust Flow Rate (acfm): 3,367

Exhaust Temperature (°F): 150

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-005-P1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-071, EP-072, EP-073

Associated Equipment

Associated Emission Unit ID Numbers: EU-071; EU-072; EU-073

Emissions Control Equipment ID Number: CE-071*; CE-072*

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

*: CE-071 is associated with EP-071 and EP-073; CE-072 is associated with EP-072 and EP-073.

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-071	EU-071	Flyash/FGD Waste Vacuum Exhauster #1	Flyash/FGD Waste	51.0 ton/hr
EP-072	EU-072	Flyash/FGD Waste Vacuum Exhauster #2	Flyash/FGD Waste	51.0 ton/hr
EP-073	EU-073	Flyash/FGD Waste Vacuum Exhauster #3	Flyash/FGD Waste	51.0 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.

BACT Limits:

Pollutant: Opacity

Emission Limit(s): 5% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P

⁽¹⁾Standard is a 1 hour average.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.005 gr/dscf ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.005 gr/dscf ^{(2), (3)}

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P

⁽²⁾ Standard is expressed as the average of three (3) runs.

⁽³⁾ Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.19 lb/hr⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P

⁽²⁾ Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

- A. The facility is required to schedule a PM and PM₁₀ compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permit 06-A-006-P1; 06-A-007-P1
07-A-1077-P

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement DNR Construction Permit
EP-071	23	14	4,364	255	Vertical Unobstructed	06-A-006-P1
EP-072	23	14	4,364	255	Vertical Unobstructed	06-A-007-P1
EP-073	23	14	4,364	255	Vertical Unobstructed	07-A-1077-P

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-074, EP-075

Associated Equipment

Associated Emission Unit ID Numbers: EU-074, EU-075

Emissions Control Equipment ID Number: CE-074*

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

*: CE-074 is associated with both EP-074 and EP-075

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-074	EU-074	Lime Unloading Vacuum System Exhauster #1	Lime	25.0 ton/hr
EP-075	EU-075	Lime Unloading Vacuum System Exhauster #2	Lime	25.0 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.

BACT Limits:

Pollutant: Opacity

Emission Limit(s): 5% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1

⁽¹⁾Standard is a 1 hour average.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.01 gr/dscf ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.01 gr/dscf ^{(2), (3)}

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1

⁽²⁾ Standard is expressed as the average of three (3) runs.

⁽³⁾ Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.17 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1

⁽²⁾ Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

- A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permit 06-A-009-P1; 06-A-010-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

	EP-074	EP-075
Stack Height, (ft, from the ground)	38	38
Stack Opening (diameter, inches)	10	10
Exhaust Flow Rate (acfm)	2,017	2,017
Exhaust Temperature (°F)	135	135
Discharge Style	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	06-A-009-P1	06-A-010-P1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-077

Associated Equipment

Associated Emission Unit ID Numbers: EU-077
Emissions Control Equipment ID Number: CE-077
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-077
Emission Unit Description: Lime Silo
Raw Material/Fuel: Lime
Rated Capacity: 1,886 tons

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.

BACT Limits:

Pollutant: Opacity
Emission Limit(s): 5% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-012-P2

⁽¹⁾Standard is a 1 hour average.

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.01 gr/dscf ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-012-P2

Pollutant: Particulate Matter (PM, State)
Emission Limit(s): 0.01 gr/dscf ^{(2), (3)}
Authority for Requirement: DNR Construction Permit 06-A-012-P2

⁽²⁾ Standard is expressed as the average of three (3) runs.

⁽³⁾ Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-012-P2
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.24 lb/hr ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-012-P2

⁽²⁾ Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-012-P2
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

- A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permit 06-A-012-P2

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 143
Stack Opening, (inches): 15×10
Exhaust Flow Rate (acfm): 2,800
Exhaust Temperature (°F): Ambient
Discharge Style: Horizontal
Authority for Requirement: DNR Construction Permit 06-A-012-P2

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

Monitoring Requirements

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

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-078

Associated Equipment

Associated Emission Unit ID Numbers: EU-078
Emissions Control Equipment ID Number: CE-078
Emissions Control Equipment Description: Baghouse
Continuous Emissions Monitors ID Numbers: None

Emission Unit vented through this Emission Point: EU-078
Emission Unit Description: Recycle Ash Silo
Raw Material/Fuel: Flyash/FGD Recycle Material
Rated Capacity: 540 tons

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.

BACT Limits:

Pollutant: Opacity
Emission Limit(s): No Visible Emissions
Authority for Requirement: DNR Construction Permit 06-A-013-P1

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.005 gr/dscf ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-013-P1

Pollutant: Particulate Matter (PM, State)
Emission Limit(s): 0.005 gr/dscf ^{(1), (2)}
Authority for Requirement: DNR Construction Permit 06-A-013-P1

⁽¹⁾ Standard is expressed as the average of three (3) runs.

⁽²⁾ Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity
Emission Limit(s): 40% ⁽¹⁾
Authority for Requirement: DNR Construction Permit 06-A-013-P1
567 IAC 23.3(2) "d"

⁽¹⁾ Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)
Emission Limit(s): 0.07 lb/hr ⁽²⁾
Authority for Requirement: DNR Construction Permit 06-A-013-P1

⁽²⁾ Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: DNR Construction Permit 06-A-013-P1

Operational Limits & Requirements

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

Operational limits are not required at this time.

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 112

Stack Opening, (inches): 8×14

Exhaust Flow Rate (acfm): 1,706

Exhaust Temperature (°F): 150

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 06-A-013-P1

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

Monitoring Requirements

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

Agency Approved Operation & Maintenance Plan Required? Yes No

Facility Maintained Operation & Maintenance Plan Required? Yes No

Compliance Assurance Monitoring (CAM) Plan Required? Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: EP-079, EP-080, EP-081

Associated Equipment

Associated Emission Unit ID Numbers: EU-079; EU-080; EU-081

Emissions Control Equipment ID Number: CE-079*; CE-080*

Emissions Control Equipment Description: Baghouse

Continuous Emissions Monitors ID Numbers: None

*: CE-079 is associated with EP-079 and EP-081; CE-080 is associated with EP-080 and EP-081.

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-079	EU-079	Recycle Ash Vacuum System Exhauster #1	Flyash/Recycle Ash	69 ton/hr
EP-080	EU-080	Recycle Ash Vacuum System Exhauster #2	Flyash/Recycle Ash	69 ton/hr
EP-081	EU-081	Recycle Ash Vacuum System Exhauster #3	Flyash/Recycle Ash	69 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.

BACT Limits:

Pollutant: Opacity

Emission Limit(s): 5% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1

⁽¹⁾Standard is a 1 hour average.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.005 gr/dscf ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.005 gr/dscf ^{(2), (3)}

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1

⁽²⁾Standard is expressed as the average of three (3) runs.

⁽³⁾Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% ⁽¹⁾

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1

06-A-016-P1
567 IAC 23.3(2) "d"

⁽¹⁾Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM₁₀)

Emission Limit(s): 0.21 lb/hr ⁽²⁾

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1

⁽²⁾Standard is expressed as the average of three (3) runs.

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.1 gr/dscf

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1
567 IAC 23.3(2) "a"

Operational Limits & Requirements

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

- A. The facility is required to schedule a PM and PM10 compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permit 06-A-014-P1; 06-A-015-P1
06-A-016-P1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

	Stack Height (ft, from the ground)	Stack Opening (dia. inch)	Exhaust Flow Rate (acfm)	Exhaust Temperature (°F)	Discharge Style	Authority for Requirement DNR Construction Permit
EP-079	23	14	4,875	255	Vertical Unobstructed	06-A-014-P1
EP-080	23	14	4,875	255	Vertical Unobstructed	06-A-015-P1
EP-081	23	14	4,875	255	Vertical Unobstructed	06-A-016-P1

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

Monitoring Requirements

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

- Agency Approved Operation & Maintenance Plan Required?** Yes No
- Facility Maintained Operation & Maintenance Plan Required?** Yes No
- Compliance Assurance Monitoring (CAM) Plan Required?** Yes No

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

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 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Windsor Heights, Iowa 50324, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 11201 Renner Blvd., Lenexa, KS 66219. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

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

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

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

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
 - a. Form 1.0 "Facility Identification";
 - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
 - c. Form 5.0 "Title V annual emissions summary/fee"; and
 - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
 - a. Form 1.0 "Facility Identification";
 - b. Form 5.0 "Title V annual emissions summary/fee";
 - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The

department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.

7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

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

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

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

G8. Duty to Provide Information

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

G9. General Maintenance and Repair Duties

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

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

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
 - a. The date, place and time of sampling or measurements
 - b. The date the analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses; and

- f. The operating conditions as existing at the time of sampling or measurement.
 - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
 - b. Maintain a log at the permitted facility of the scenario under which it is operating.
 - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

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

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

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

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

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

G13. Hazardous Release

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

followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

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

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

- b. **Written Reporting of Excess Emissions.** A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:
- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
 - ii. The estimated quantity of the excess emission.
 - iii. The time and duration of the excess emission.
 - iv. The cause of the excess emission.
 - v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
 - vi. The steps that were taken to limit the excess emission.
 - vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

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

G15. Permit Deviation Reporting Requirements

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

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

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

Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);

c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act.

e. The changes comply with all applicable requirements.

f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:
 - i. Correct typographical errors
 - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
 - iii. Require more frequent monitoring or reporting by the permittee; or
 - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
- b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
- c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
 - i. Do not violate any applicable requirements
 - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
 - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
 - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
 - v. Are not modifications under any provision of Title I of the Act; and
 - vi. Are not required to be processed as significant modification.
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
 - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
 - ii. The permittee's suggested draft permit
 - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
 - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

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

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

G19. Duty to Obtain Construction Permits

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

G20. Asbestos

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

G21. Open Burning

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

G22. Acid Rain (Title IV) Emissions Allowances

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

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

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
 - b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
 - c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
 - d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
 - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
 - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
 - d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

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

G27. Property Rights

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

G28. Transferability

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

G29. Disclaimer

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the

department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-6001

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

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

G31. Prevention of Air Pollution Emergency Episodes

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

567 IAC 26.1(1)

G32. Contacts List

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

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
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
7900 Hickman Road, Suite #1
Windsor Heights, IA 50324
(515) 242-5100

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

Field Office 1

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

Field Office 2

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

Field Office 3

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

Field Office 4

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

Field Office 5

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

Field Office 6

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

Polk County Public Works Dept.

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.

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

V. Appendix

Appendix A: NSPS and NESHAP

- A. 40 CFR 60 Subpart A – General Provisions
<http://www.tceq.state.tx.us/permitting/air/rules/federal/60/a/ahp.html>
- B. 40 CFR 60 Subpart D – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
<http://www.tceq.texas.gov/permitting/air/rules/federal/60/d/dhp.html>
- C. 40 CFR 60 Subpart Y – Coal Preparation Plants and Processing Plants
<http://www.tceq.texas.gov/permitting/air/rules/federal/60/y/yhp.html>
- D. 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines
<http://www.tceq.texas.gov/permitting/air/rules/federal/60/gg/gghp.html>
- E. 40 CFR 63 Subpart A – General Provisions
<http://www.tceq.texas.gov/permitting/air/rules/federal/63/a/ahp.html>
- F. 40 CFR 63 Subpart YYYY – National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines
<http://www.tceq.texas.gov/permitting/air/rules/federal/63/yyyy/yyyyhp.html>
- G. 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP)
<http://www.gpo.gov/fdsys/pkg/FR-2013-01-30/pdf/2013-01288.pdf>
- H. 40 CFR 63 Subpart DDDDD – This facility is subject to National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
<http://www.gpo.gov/fdsys/pkg/FR-2013-02-01/pdf/2012-31645.pdf>
- I. 40 CFR 63 Subpart UUUUU – This facility is subject to National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
<http://www.epa.gov/mats/pdfs/20111216MATSfinal.pdf>



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

Phase II Acid Rain Permit

Issued to: Louisa Generating Station
Operated by: MidAmerican Energy Company
ORIS code: 6664
Effective: September 6, 2013 through September 5, 2018

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Operating Permits Section

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 (DNR), 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 (DNR), 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

		2013	2014	2015	2016	2017	2018
Unit 101	SO ₂ allowances, under Table 2 of 40 CFR part 73.	15,620*	15,620*	15,620*	15,620*	15,620*	15,620*
	NO _x limit	<p>Pursuant to 40 CFR part 76, The Iowa Department of Natural Resources approves a NO_x emissions limitation compliance plan for Unit 101. The NO_x compliance plan is effective beginning September 6, 2013 through September 5, 2018. Under the NO_x compliance plan, this unit's the annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emissions limitation under 40 CFR 76.5(a)(2), which is 0.50 lbs/mmBtu for dry bottom wall-fired units.</p> <p>In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and the requirements covering excess emissions.</p>					

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

3) Comments, Notes and Justifications:

Second renewal of the Phase II SO₂ and NO_x permit.

4) Permit Application: Attached.

Facility (Source) Name (from STEP 1): Louisa
--

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).

Facility (Source) Name (from STEP 1): Louisa

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;

Facility (Source) Name (from STEP 1): Louisa
--

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): Louisa

Effect on Other Authorities, Cont'd.

STEP 3, Cont'd.

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

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

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

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

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

Certification

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

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

Name: William R. Whitney	
Signature <i>William R. Whitney</i>	Date 11/22/11



Phase II NO_x Compliance Plan

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

Page of

This submission is: New Revised

STEP 1

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

Plant Name: Louisa	State: IA	ORIS Code:6664
--------------------	-----------	----------------

STEP 2

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

ID#	ID#	ID#	ID#	ID#	ID#
101					
Type: DBW	Type:	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)

<input checked="" type="checkbox"/>	<input type="checkbox"/>				
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(j) NO_x Averaging Plan (include NO_x Averaging form)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Plant Name (from Step 1): Louisa

STEP 2, cont'd.

ID# 101	ID#	ID#	ID#	ID#	ID#
Type: DBW	Type:	Type	Type	Type	Type

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17(a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(n) AEL (Include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

(p) Repowering extension plan approved or under review

<input type="checkbox"/>					
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

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

Standard Requirements

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

Special Provisions for Early Election Units

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

Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

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

Name: William R. Whitney	
Signature <i>William R. Whitney</i>	Date 11/22/11



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

Clean Air Interstate Rule (CAIR) Permit

Issued to: Louisa Generating Station
Operated by: MidAmerican Energy Company
ORIS code: 6664
Effective: September 6, 2013 through September 5, 2018

For the Director of the Department of Natural Resources

Lori Hanson, Supervisor of Operating Permits Section

Date

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

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

1) Statement of Basis

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

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

		2013	2014	2015	2016	2017	2018
Unit 101	NO _x Annual Allowances under Table 1A of 567 IAC 34.205(2)	3945*	3945*	3357*	3357*	3357*	3357*
	NO _x Ozone Season Allowances under Table 2A of 567 IAC 34.225(2)	1632*	1632*	1389*	1389*	1389*	1389*
	SO ₂ allowances requirements are effective January 1, 2010	The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO ₂ Annual allowance allocations identified in this permit (See 40 CFR 96.223(b)). Under the CAIR program the SO ₂ allowances will have different values depending on the date of reconciliation (40 CFR 96.202).					

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

3) Comments, Notes and Justifications: Unit 101 boiler is an affected unit under CAIR. This unit is required to acquire allowances to cover their NO_x Annual, NO_x Ozone Season and SO₂ emissions.

4) Permit Application: Attached.

Plant Name (from Step 1) Louisa Generating Station

STEP 3,
continued

(b) Monitoring, reporting, and recordkeeping requirements.

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

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

(c) Nitrogen oxides emissions requirements.

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

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

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

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

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

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

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

Sulfur dioxide emission requirements.

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

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

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

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

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

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

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

Nitrogen oxides ozone season emissions requirements.

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

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

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

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

(5) A CAIR NO_x allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

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

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

Plant Name (from Step 1) Louisa Generating Station

**STEP 3,
continued**

(d) Excess emissions requirements.

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

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

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

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

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

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

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x source, CAIR SO₂ source, and CAIR NO_x Ozone Season source (as applicable) and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the permitting authority or the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x unit, CAIR SO₂ unit, and CAIR NO_x Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96, provided that to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR SO₂ Trading Program, and CAIR NO_x Ozone Season Trading Program (as applicable).

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

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

(f) Liability.

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

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

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

Plant Name (from Step 1) Louisa Generating Station

**STEP 3,
continued**

(g) Effect on Other Authorities.

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

Certification

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

Name: Todd Raba	
Signature 	Date 6/28/07