

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

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

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

**Air Quality Operating Permit Number: 98-TV-029R4-M001**

**Expiration Date: 11/12/2028**

**Permit Renewal Application Deadline: 05/12/2028**

**EIQ Number: 92-2730**

**Facility File Number: 58-07-001**

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**Responsible Official**

**Name: Todd Horchem**

**Title: General Manager**

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

**Phone #: (563) 333-4144**

**Permit Contact Person for the Facility**

**Name: Kayla Swope**

**Title: Associate Environmental Analyst**

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

**Phone #: (563) 288-2884**

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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**

*Marnie Stein*

2/29/2024

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Marnie Stein, Supervisor of Air Operating Permits Section

Date

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## 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
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 <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	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 Generating Station

Permit Number: 98-TV-029R4-M001

Facility Description: Electric Services (SIC 4911)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
EP-1	EU-1	Utility Boiler Natural Gas	05-A-031-P5
		Utility Boiler #2 Fuel Oil	
		Utility Boiler Pulverized Coal, Dry Bottom	
EP-2	EU-2	Auxiliary Boiler #1 Natural Gas	97-A-979-P3
		Auxiliary Boiler #1 Fuel Oil	
EP-3	EU-3	Auxiliary Boiler #2 Natural Gas	97-A-980-P3
		Auxiliary Boiler #2 Fuel Oil	
EP-7	EU-7	Rotary Dumper #1	80-A-019-P3
EP-7A	EU-7A	Rotary Dumper #2	80-A-020-P3
EP-8	EU-8	Transfer Tower	80-A-015-P1
EP-9	EU-9	Crusher House with Coal Dust Pneumatic Conveying	80-A-016-P4
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 Aboveground Storage Tank (2000 gal)	None
EP-32	EU-37	Diesel Fire Pump Engine (340 HP)	None
EP-36	EU-39B	Flyash Silo Unloading Chute #101	None
EP-37	EU-39C	Flyash Silo Unloading Chute #102	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
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

<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
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
EP-86	EU-86	Hg Control Sorbent Storage Silo	14-A-003-S1
EP-87	EU-87	Emergency Generator	18-A-448
EP-88	EU-88	Emergency Generator	18-A-449

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### Insignificant Activities Equipment List

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<b>Insignificant Emission Unit Number</b>	<b>Insignificant Emission Unit Description</b>
EU-14	Coal Reclaim Pit
EU-17	Fuel Oil Storage Tank 101 (500,000 gal)
EU-19	Diesel Fuel Tank (3000 gal)
EU-22	Glycol Storage Tank (490 gal)
EU-23	Waste Oil Storage Tank (284 gal)
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 (550 gal)
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 Generating Station  
Permit Number: 98-TV-029R4-M001

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

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### Permit Duration

The term of this permit is: Five years from permit issuance  
Commencing on: 11/13/2023  
Ending on: 11/12/2028

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.

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### 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 (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

### Particulate Matter:

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

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

Fugitive Dust: Attainment and Unclassified Areas - A person shall take reasonable precautions to prevent particulate matter from becoming airborne in quantities sufficient to cause a nuisance as defined in Iowa Code section 657.1 when the person allows, causes or permits any materials to be

handled, transported or stored or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved roads. Ordinary travel includes routine traffic and road maintenance activities such as scarifying, compacting, transporting road maintenance surfacing material, and scraping of the unpaved public road surface. (the preceding sentence is State Only) All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The public highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not be limited to, the following procedures.

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

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

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#### **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-7, EP-7A, EP-8, EP-9, EP-10, and EP-11.

See Appendix A for the link of the Standard.

Authority for Requirement: 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.

Authority for Requirement: 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.

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

#### **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 and EP-32.

See Appendix A for the link of the Standard.

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

#### **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 units are EP-32, EP-87, and EP-88.

See Appendix A for the link of the Standard.

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

#### **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 Requirement: 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 Requirement: 40 CFR 63 Subpart UUUUU



### III. Emission Point-Specific Conditions

Facility Name: MidAmerican Energy Company – Louisa Station  
 Permit Number: 98-TV-029R4-M001

#### Emission Point ID Number: EP-1

**Boiler Table -1**

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-1	EU-1	Louisa Boiler	Natural Gas	0.76 MMCF/hr
			#2 Fuel Oil	5.9 1000 gal/hr
			Pulverized Coal	8000 MMBtu/hr

**Boiler Table -2**

EP	CE	CE Description	CEM
EP-1	CE-1	Dry Electrostatic Precipitator	ME-1 (SO <sub>2</sub> ); ME-2 (NO <sub>x</sub> ); ME-3 (CO <sub>2</sub> ); ME-4 (Opacity); ME-5 (Flow); ME-6 (CO)
	CE-1B	Lime Spray Dryer Flue Gas Desulfurization	
	CE-1C	Baghouse	
	CE-1D	Mercury (Hg) Sorbent Injection	
	CE-2	Low NO <sub>x</sub> Burners & Overfire Air	

#### 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	DNR Construction Permit 05-A-031-P5	BACT
20% <sup>(1)</sup>	6-min average	COMS	DNR Construction Permit 05-A-031-P5 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None

<sup>(1)</sup> 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 (PM<sub>10</sub>):

<b>Limit</b>	<b>Average Period</b>	<b>Compliance Demonstration Method</b>	<b>Authority for Requirement</b>	<b>Other</b>
0.027 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P5	BACT
1,019 ton/yr	12-month rolling total	-	DNR Construction Permit 05-A-031-P5	BACT
258.7 lb/hr	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P5	NAAQS

Particulate Matter (PM):

<b>Limit</b>	<b>Average Period</b>	<b>Compliance Demonstration Method</b>	<b>Authority for Requirement</b>	<b>Other</b>
0.03 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P5	BACT, Federal PM
0.027 lb/MMBtu	3-test run average	Stack testing	DNR Construction Permit 05-A-031-P5	BACT, State PM
1,019 ton/yr	12-month rolling total	-	DNR Construction Permit 05-A-031-P5	BACT
43 ng/J heat input (0.10 lb/MMBtu)	3-test run average	Stack Testing	DNR Construction Permit 05-A-031-P5 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	Federal PM

Sulfur Dioxide (SO<sub>2</sub>):

<b>Limit</b>	<b>Average Period</b>	<b>Compliance Demonstration Method</b>	<b>Authority for Requirement</b>	<b>Other</b>
0.96 lb/MMBtu <sup>(1)</sup>	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P5	BACT
520 ng/J heat input <sup>(2)</sup> (1.2 lb/MMBtu)	3-hr rolling average	CEMS	DNR Construction Permit 05-A-031-P5 40 CFR 60 Subpart D 567 IAC 23.1(2) "a"	None
3,449.6 lb/hr <sup>(3)</sup>	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P5	NAAQS
Acid Rain Limits	-	-	DNR Construction Permit 05-A-031-P5 Phase II Acid Rain Permit	See Appendix

<sup>(1)</sup> This standard does not include periods of startup, shutdown, and malfunction.

<sup>(2)</sup> 520 ng/J = 1.20 lb/MMBTU. Emission limit per 40 CFR §60.43(a)(2) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue. Per 40 CFR §60.43 alternative limits are:

- 340 ng/J heat input (0.80 lb/MMBTU) when combusting liquid fossil fuel or liquid fossil fuel and wood residue [40 CFR §60.43(a)(1)].
- Per 40 CFR §60.43(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

$$PS_{SO_2} = \frac{[y(340) + z(520)]}{y+z}$$

Where:

$PS_{SO_2}$  = the prorated standard for  $SO_2$  when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.

y = the percentage of total heat input derived from liquid fossil fuel

z = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.43(d), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(i)(3) or comply with 40 CFR §60.42b(k)(4) as applicable to the affected source. If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(i)(3) or 40 CFR §60.42b(k)(4) as applicable to the affected source.

<sup>(3)</sup> Emission limit carried over from EPA Prevention of Significant Deterioration (PSD) permit. The  $SO_2$  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 <sup>(1)</sup>	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P5	BACT
300 ng/J heat input <sup>(2)</sup> (0.70 lb/MMBtu)	3-hr rolling average	CEMS	DNR Construction Permit 05-A-031-P5 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-P5	NAAQS
7,555 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 05-A-031-P5	NAAQS
Acid Rain Limits	-	-	DNR Construction Permit 05-A-031-P5 Phase I Acid Rain Permit	See Appendix

<sup>(1)</sup> This standard does not include periods of startup, shutdown, and malfunction.

<sup>(2)</sup> 300 ng/J = 0.70 lb/MMBTU. Emission limit per 40 CFR §60.44(a)(3) when the unit is combusting solid fossil fuel or solid fossil fuel and wood residue (except lignite or a solid fossil fuel containing 25%, by weight, or more of coal refuse). Per 40 CFR §60.44 alternative limits are:

- 86 ng/J heat input (0.20 lb/MMBTU) when combusting gaseous fossil fuel.
- 129 ng/J heat input (0.30 lb/MMBTU) when combusting liquid fossil fuel, liquid fossil fuel and wood residue, or gaseous fossil fuel and wood residue.
- Per 40 CFR §60.44(b), when different fossil fuels are combusted simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

$$PS_{NO_x} = \frac{[w(260) + x(86) + y(130) + z(300)]}{w+x+y+z}$$

Where:

$PS_{NO_x}$  = the prorated standard for  $NO_x$  when burning different fuels simultaneously, in nanograms per joule (ng/J) heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired.

w = the percentage of total heat input derived from lignite

x = the percentage of total heat input derived from gaseous fossil fuel

y = the percentage of total heat input derived from liquid fossil fuel

z = the percentage of total heat input derived from solid fossil fuel.

- Per 40 CFR §60.44(e), as an alternate to meeting the requirements of 40 CFR §60.43(a) and 40 CFR §60.43(b), an owner or operator can petition the Administrator (in writing) to comply with 40 CFR §60.43Da(e)(3). If the Administrator grants the petition, the source will from then on (unless the unit is modified or reconstructed in the future) have to comply with the requirements in 40 CFR §60.43Da(e)(3).

In addition, per 40 CFR §60.45(g)(3), excess emissions are defined as:

- For affected facilities electing not to comply with 40 CFR §60.44(e), any three (3) hour period during which the average emissions [arithmetic average of three (3) contiguous one (1) hour periods] of  $SO_2$  as measured by a CEMS exceed the applicable standard in 40 CFR §60.44; or
- For affected facilities electing to comply with 40 CFR §60.44(e), any thirty (30) operating day period during which the average emissions [arithmetic average of all one (1) hour periods during the thirty (30) operating days] of  $NO_x$  as measured by a CEMS exceed the applicable standard in 40 CFR §60.44. Facilities complying with the thirty (30) day  $NO_x$  standard shall use the most current associated  $NO_x$  compliance and monitoring requirements in 40 CFR §60.48Da and 40 CFR §60.49Da.

**Volatile Organic Compounds (VOC):**

Limit	Average Period	Compliance Demonstration Method	Authority for Requirement	Other
0.0036 lb/MMBtu	3-hr rolling average	-	DNR Construction Permit 05-A-031-P5	BACT
135.98 ton/yr	12-month rolling total	-	DNR Construction Permit 05-A-031-P5	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-P5	BACT
15,864 ton/yr	12-month rolling total	CEMS	DNR Construction Permit 05-A-031-P5	BACT
3,622 lb/hr	30-day rolling average	CEMS	DNR Construction Permit 05-A-031-P5	NAAQS

**Cross-State Air Pollution Rule (CSAPR) (a.k.a., Transport Rule (TR))**

Pollutant: Nitrogen Oxides (NO<sub>x</sub>) Annual, Nitrogen Oxides (NO<sub>x</sub>) Ozone Season Group 2, Sulfur Dioxide (SO<sub>2</sub>) Group 1

Emission Limits: Nitrogen Oxides and Sulfur Dioxide Allowances

Authority for Requirement: 40 CFR Part 97 (See appendix for requirements)

**Operational Requirements with Associated Monitoring and Recordkeeping**

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

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

- A. The owner or operator shall maintain records of SO<sub>2</sub> 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. This unit shall be limited to firing bituminous coal, sub-bituminous coal, #2 fuel oil, and natural gas.
  - a. The owner or operator shall keep records of whenever bituminous coal is combusted at the facility.
- C. The sulfur (S) content of any coal fired in the unit shall not exceed 2.0 lb/MMBTU.
  - a. The owner or operator shall maintain records of the sulfur (S) content of all coal or combination of coals fired in the boiler.
- D. 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.
- E. A bag leak detection system must be installed to meet the following criteria:
  - a. At least one detector must be located in each compartment of the baghouse.
  - b. 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.
  - c. 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.
  - d. The bag leak detection system sensor must provide output of relative or absolute particulate matter loadings.
  - e. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensors.
  - f. 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.

- g. The system's instrumentation and alarm may be shared among detectors.
- h. The system's alarm shall sound no more than 5% of the operating time during a 6 month period.
- i. The following records must be maintained from the bag leak detection system:
  - (1) The date, time and duration of each system alarm.
  - (2) The time corrective action was initiated and completed
  - (3) A brief description of the cause of the alarm and the corrective action
  - (4) A record of the percent of operating time during each 6 month period that the alarm sounds. In calculating the operating time percentage,
    - a. If an inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted.
    - b. If corrective action is required, each alarm shall be counted as a minimum of 1 hour.
    - c. 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.
- F. Trucks which haul either ash or sludge shall either be covered with a tarp or enclosed.
- G. 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.
- H. The following conditions are required on the haul roads when combusting bituminous coal at the facility (plant # 58-07-001) to meet the BACT emission rates:
  - a. Haul truck loads shall be enclosed or covered.
  - b. For paved roads:
    - (i) Fugitive emissions of paved haul roads shall be controlled to an effective control efficiency of 80% by either water flushing followed by sweeping or using a street sweeper that is certified to achieve a pick-up efficiency of 80%. The control efficiency of 80% shall be achieved by water flushing followed by sweeping or using a certified sweeper on 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.
  - c. 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.

- I. When bituminous coal is combusted, a log shall be kept showing the following for haul roads:
- (1) Paved roads:
- a. Records of either the use of a certified street sweeper or 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.
  - b. If water is not applied when scheduled then the records should so indicate and provide an explanation.
- (2) Unpaved roads:
- a. Records of the applications shall be maintained and shall include:
    - The dates of each application
    - The chemical dust suppressant used
    - The application intensity (gal/sq yd)
    - Dilution ratio
    - The operator's initials, and
    - Documentation of road and weather conditions, if necessary.
  - b. If the suppressant is not applied as planned, then the records should so indicate and provide an explanation.
- J. 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 Condition 1 of this permit without the ESP in operation.
- K. The owner or operator is allowed, but not required, to combust coal which has been treated with chemicals to aid in mercury (Hg) emissions control. The following additives have been approved by the Department for use by the owner or operator:
- (1) a mineral composite of calcium silicate components,
  - (2) other calcium compounds containing iron and aluminum,
  - (3) calcium bromide
  - (4) calcium chloride
  - (5) potassium iodide

- L. Prior to the use of any additional chemicals to aid in mercury (Hg) emissions control, the owner or operator shall supply material data to the Department for review and approval. This data shall include, but is not limited to:
  - (1) A description of the chemical additive
  - (2) Information demonstrating the potential impact on mercury emissions and any other HAPs regulated by an applicable state or federal standard, and
  - (3) An evaluation of the impact on all NSR regulated air emissions.
- M. The owner or operator shall record if treated coal is combusted and with what chemicals the coal has been treated.
- N. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 13-467) the owner or operator shall document:
  - (1) A description of the project (Project Number 13-467),
  - (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by the project (Project Number 13-467), and
  - (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph "3" of the definition of "*projected actual emissions*" in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.
  - (4) Per 567 IAC 33.3(18)"f"(1), the owner or operator shall maintain a record of the information required in Condition 5.K. of this permit for a period of five (5) years.
- O. The owner or operator shall meet all applicable recordkeeping and reporting requirements under NSPS Subparts A and D.

Authority for Requirement: DNR Construction Permit 05-A-031-P5

**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  
 567 IAC 23.1(2)"a"  
 DNR Construction Permit 05-A-031-P5

This emission point is subject to the following federal regulation: 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): 2,384,500  
Exhaust Temperature (°F): 220  
Discharge Style: Vertical Unobstructed  
Authority for Requirement: DNR Construction Permit 05-A-031-P5

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

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

#### **Stack Testing:**

Pollutant – Particulate Matter (PM<sub>10</sub>)  
First Stack Test to be completed by 11/12/2024  
Second Stack Test to be completed between 5/12/2026 and 5/12/2027  
Test Method – 40 CFR 51, Appendix M, Method 201A with 202  
Authority for Requirement: 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) - State  
First Stack Test to be completed by 11/12/2024  
Second Stack Test to be completed between 5/12/2026 and 5/12/2027  
Test Method – 40 CFR 60, Appendix A, Method 5  
40 CFR 51, Appendix M, Method 202  
Authority for Requirement: 567 IAC 22.108(3)

Pollutant – Particulate Matter (PM) - Federal  
First Stack Test to be completed by 11/12/2024  
Second Stack Test to be completed between 5/12/2026 and 5/12/2027  
Test Method – 40 CFR 60, Appendix A, Method 5p  
Authority for Requirement: 567 IAC 22.108(3)

## **Continuous Emissions Monitoring:**

Continuous emission monitoring for the BACT and other emission limits for PM, SO<sub>2</sub> and NO<sub>x</sub> shall be determined by all continuous monitoring and reporting methods which may be specified in 40 CFR Part 60, Subpart Da as of the date of initial source startup (i.e., operation of the boiler for any purpose), with the exception that the control efficiency of the sulfur dioxide removal device need not be demonstrated. Notwithstanding the fact that the Louisa Generating Station is still not subject to 40 CFR Part 60, Subpart Da as no increase in the hourly emission rate of an affected NSPS pollutant has occurred, Subpart Da is being referenced to specify methods for determining compliance with the BACT emission rates which were established under the PSD regulations promulgated pursuant to Section 110 of the Act (42 U.S.C. 7410).

The facility (plant number 58-07-001) shall install, calibrate, maintain and operate a continuous monitoring system (CEMS) on EP 1, and record the output of the system, for measuring the opacity of emissions discharged to the atmosphere. If opacity interference due to water droplets exists in the stack (for example, from the use of an FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system). If opacity interference is experienced at all locations (both at the inlet and outlet of the sulfur dioxide control system), alternate parameters indicative of the particulate matter control system's performance are monitored (subject to the approval of the Administrator). This system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 1 (PS1).

Compliance with the carbon monoxide (CO) emission limits of this permit shall be continuously demonstrated by the owner or operator through the use of a CEMS. Therefore, the facility shall install, calibrate, maintain and operate a CEMS on EP 1 for measuring CO emissions discharged to the atmosphere and record the output of the system. The system shall be designed to meet the 40 CFR 60 Appendix B, Performance Specification 4 (PS4) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a notice to the Department with the dates of the annual relative accuracy test audit.

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

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 (SO<sub>2</sub>)

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<sub>x</sub>)

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-P5

Other Parameters:

Pollutant – Carbon Dioxide (CO<sub>2</sub>)

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-P5  
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 Numbers: EP-2, EP-3**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-2, EU-3

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Emission Units vented through these Emission Points: EU-2, EU-3  
Emission Unit Description: Auxiliary Boiler #1, Auxiliary Boiler #2  
Raw Material/Fuel: #2 Fuel Oil or Natural Gas  
Rated Capacity: 97.8 MMBtu/hr (each)

### **Applicable Requirements**

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

*The emissions from each of these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3  
567 IAC 23.3(2)"d"

<sup>(1)</sup>Averaging period is six (6) minutes. 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 (PM<sub>10</sub>)

Emission Limit(s): 12.51 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3

Pollutant: Particulate Matter (PM)

Emission Limit(s): 0.6 lb/MMBtu

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3  
567 IAC 23.3(2)"b"(3)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limit(s): 98.26 lb/hr <sup>(2)</sup>, 500 ppmv<sup>(3)</sup>

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3  
567 IAC 23.3(3)"e"

<sup>(3)</sup>When burning natural gas

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)

Emission Limit(s): 27.68 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3

<sup>(2)</sup> 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. Each unit shall combust only natural gas, except that No. 2 fuel oil may be combusted for periodic testing not to exceed a combined total of 48 hours during any calendar year, or during periods of gas curtailment and gas supply emergencies.
- B. The sulfur content of the No. 2 fuel oil shall not exceed 0.5% on a weight basis percentage.
- C. To maintain Project 12-412 and Project 14-408 as a minor projects for Prevention of Significant Deterioration (PSD), the owner or operator shall have the following requirements after the physical modifications permitted by these projects:
  - a. Project 12-414 and Project 14-408 include physical changes to the following emission units: Auxiliary Boiler 1 (EU2) and Auxiliary Boiler 2 (EU3). These changes include the replacement of all the boiler economizer, water, and superheater tubes.

### **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 boilers are operating.
- B. The sulfur content of the fuel oil. This may be done by testing each shipment of fuel oil received or by fuel oil vendor certification.
- C. The hours each unit combusts No. 2 fuel oil, along with the reason (i.e., test, gas curtailment, etc.).
- D. The hours each unit combusts No. 2 fuel oil for periodic testing shall be recorded on a monthly basis, and totaled on a calendar year basis.
- E. For the purposes of maintaining Project 12-412 and Project 14-408 as minor projects for PSD, the owner or operator shall have the following monitoring conditions for a period of five (5) years from the date of resumption of regular operations of Auxiliary Boiler 1 (EU2) and Auxiliary Boiler 2 (EU3) after the physical modifications:
  - a. Record the date Auxiliary Boiler 1 (EU2) and Auxiliary Boiler 2 (EU3) resume operation after the physical modifications.
  - b. Record annually the sum of the actual PM, PM<sub>10</sub>, PM<sub>2.5</sub>, VOC, CO, NO<sub>x</sub>, lead, SO<sub>2</sub>, and CO<sub>2e</sub> emissions from Auxiliary Boiler 1 and Auxiliary Boiler 2 in tons per year on a calendar-year basis.

Authority for Requirement: DNR Construction Permits 97-A-979-P3 and 97-A-980-P3



**NSPS and NESHAP Applicability**

These emission points are 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**

*These emission points 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 Permits 97-A-979-P3 and 97-A-980-P3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP-7, EP-7A**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-7, EU-7A  
Emissions Control Equipment ID Numbers: CE-3, CE-3A  
Emissions Control Equipment Description: Baghouses

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Emission Unit vented through this Emission Point: EU-7, EU-7A  
Emission Unit Description: Rotary Dumper #1, Rotary Dumper #2  
Raw Material/Fuel: Coal  
Rated Capacity: 3,500 ton/hr (each)

### **Applicable Requirements**

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

*The emissions from each of these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 20%

Authority for Requirement: DNR Construction Permits 80-A-019-P3 and 80-A-020-P3  
40 CFR 60 Subpart Y  
567 IAC 23.1(2)"v"

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 8.36 lb/hr <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 80-A-019-P3 and 80-A-020-P3

Pollutant: Particulate Matter (PM, Federal)

Emission Limit(s): 0.013 gr/dscf <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 80-A-019-P3 and 80-A-020-P3

<sup>(1)</sup>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 Permits 80-A-019-P3 and 80-A-020-P3  
567 IAC 23.3(2)"a"

### **Operating Requirements with Associated Monitoring and Recordkeeping**

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

- A. The owner or operator shall inspect and maintain the control equipment (CE-3) per manufacturer's recommendations.
- B. The owner or operator shall keep records of control equipment inspections and maintenance.
- C. At a minimum, the owner or operator shall observe for visible emissions from this emission unit (EU-7) once per week while the unit is operating. If visible emissions are observed, the owner or operator shall take corrective action as soon as possible.
- D. The owner or operator shall keep records of the results of the opacity observations, and if required, any corrective action taken as a result.
- E. The owner or operator shall calculate the annual emissions of PM, PM<sub>10</sub>, and PM<sub>2.5</sub> in tons per year on a calendar basis for project 22-166, for a period of five years following resumption of regular operations and maintain a record of regular operations after the change, as required in IAC 567-33.3(18)"(4). This information shall be retained by the owner or operator for a period of ten years after project 22-166 is completed.
- F. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the units named in project 22-166 exceed the baseline actual emissions by an amount that is "significant" as defined in IAC 567-33.3(1) for that pollutant. The baseline actual emissions are set at 4.66 tons for PM, PM<sub>10</sub> and PM<sub>2.5</sub>

Authority for Requirement: DNR Construction Permits 80-A-019-P3 and 80-A-020-P3

### **NSPS and NESHAP Applicability**

These emission points are subject to NSPS Subpart A – General Provisions and Subpart Y – Standards of Performance for Coal Preparation Plants.

Authority for Requirement: DNR Construction Permits 80-A-019-P3 and 80-A-020-P3

### **Emission Point Characteristics**

*These emission points 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 Permits 80-A-019-P3 and 80-A-020-P3

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Visible Emissions Monitoring Requirements**

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

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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.*

#### **BACT Limits:**

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 80-A-015-P1

<sup>(1)</sup> No visible emissions shall be observed from the building enclosing this emission unit.

Pollutant: Particulate Matter (PM<sub>10</sub>)  
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

#### **Other Limits:**

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"

## **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/m<sup>3</sup> 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/m<sup>3</sup> 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 Monitoring Requirements**

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: Baghouse (CE-7)

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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 nameplate, 900 tph actual

### **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-P4  
40 CFR 60 Subpart Y  
567 IAC 23.1(2)"v"

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 1.94 lb/hr<sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 80-A-016-P4

Pollutant: Particulate Matter (PM) - Federal  
Emission Limit(s): 0.013 gr/dscf<sup>(1)(2)</sup>  
Authority for Requirement: DNR Construction Permit 80-A-016-P4

<sup>(1)</sup>Standard is expressed as the average of three (3) runs.

<sup>(2)</sup>BACT standard.

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 80-A-016-P4  
567 IAC 23.3(2)"a"

### **Operational Requirements with Associated Monitoring and Recordkeeping**

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

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

- A. The owner or operator shall inspect and maintain the control equipment (CE-7) per manufacturer's recommendations.
- B. The owner or operator shall keep records of control equipment inspections and maintenance.
- C. At a minimum, the owner or operator shall observe for visible emissions from this emission unit (EU-9) once per week while the unit is operating. If visible emissions are observed, the owner or operator shall take corrective action as soon as possible.
- D. The owner or operator shall keep records of the results of the opacity observations, and if required, any corrective action taken as a result.
- E. The owner or operator shall calculate the annual emissions of PM, PM<sub>10</sub>, and PM<sub>2.5</sub> in tons per year on a calendar basis for project 22-166, for a period of five years following resumption of regular operations and maintain a record of regular operations after the change, as required in IAC 567-33.3(18)"f"(4). This information shall be retained by the owner or operator for a period of ten years after project 22-166 is completed.
- F. The owner or operator shall submit a report to the Department if the annual emissions, in tons per year, from the units named in project 22-166 exceed the baseline actual emissions by an amount that is "significant" as defined in IAC 567-33.3(1) for that pollutant. The baseline actual emissions are set at 4.66 tons for PM, PM<sub>10</sub> and PM<sub>2.5</sub>

### **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-P4

### **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-P4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

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

#### **Visible Emissions Monitoring Requirements**

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)

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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 (PM<sub>10</sub>)

Emission Limit(s): 2.09 lb/hr<sup>(1)</sup>

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

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.013 gr/dscf<sup>(1)(2)</sup>

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

<sup>(1)</sup> Standard is expressed as the average of three (3) runs.

<sup>(2)</sup> 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

### **Monitoring Requirements**

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

#### **Visible Emissions Monitoring Requirements**

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)

---

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 (PM<sub>10</sub>)

Emission Limit(s): 3.18 lb/hr <sup>(1)</sup>

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

Pollutant: Particulate Matter (PM) - Federal

Emission Limit(s): 0.013 gr/dscf <sup>(1)</sup> <sup>(2)</sup>

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

<sup>(1)</sup>Standard is expressed as the average of three (3) runs.

<sup>(2)</sup>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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Visible Emissions Monitoring Requirements**

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

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)

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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)

EP	EU	Emission Unit Description	Raw Material	Rated Capacity
EP-16	EU-16A	Coal Handling, Coal Pile	Coal	75 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

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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

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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 (340 hp)

### **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**

#### NESHAP:

The emergency engine is subject to 40 CFR 63 Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(1)(ii) this compression ignition emergency engine, located at a major source, is an existing stationary RICE as it was constructed prior to June 12, 2006.

#### Compliance Date

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

Operation and Maintenance Requirements 40 CFR 63.6602, 63.6625, 63.6640 and Tables 2c and 6 to Subpart ZZZZ

1. Change oil and filter every 500 hours of operation or annually, whichever comes first. (See 63.6625(i) for the oil analysis option to extend time frame of requirements.)
2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and

operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

Operating Limits 40 CFR 63.6640(f)

1. Any operation other than emergency operation, maintenance and testing and operation in non-emergency situations (*up to*) 50 hours per year is prohibited.
2. There is no time limit on the use of emergency stationary RICE in emergency situations.
3. You may operate your emergency stationary RICE up to 100 combined hours per calendar year for maintenance checks and readiness testing. See 40 CFR 63.6640(f)(2) for additional information and restrictions.
4. You may operate your emergency stationary RICE up to 50 hours per calendar year for non-emergency situations, but those 50 hours are counted toward the 100 hours of maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

Recordkeeping Requirements 40 CFR 63.6655

1. Keep records of the maintenance conducted on the stationary RICE.
2. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. See 40 CFR 63.6655(f) for additional information.

Notification and Reporting Requirements 40 CFR 63.6645, 63.6650 and Table 2c to Subpart ZZZZ

1. An initial notification is not required per 40 CFR 63.6645(a)(5).
2. A report may be required for failure to perform the work practice requirements on the schedule required in Table 2c. (See Footnote 1 of Table 2c for more information.)

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

**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

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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

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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-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

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

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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.*

See pages 13-14 and 15-16 for requirements for haul roads when the utility boiler (EU-1) combusts bituminous coal.

Authority for Requirement: 567 IAC 22.108(3)

**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: Bin Vent Filter

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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 (PM<sub>10</sub>)  
Emission Limit(s): 0.005 gr/dscf <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-005-P1

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

<sup>(1)</sup>Standard is expressed as the average of three (3) runs.

<sup>(2)</sup> Includes both filterable and condensable (front half and back half).

#### **Other Limits:**

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

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.14 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-005-P1

<sup>(2)</sup>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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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: Filter Separator

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

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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 each of these emission points shall not exceed the levels specified below.*

#### BACT Limits:

Pollutant: Opacity

Emission Limit(s): 5% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 06-A-006-P1, 06-A-007-P1,  
07-A-1077-P

<sup>(1)</sup>Standard is a 1 hour average.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.005 gr/dscf <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-006-P1, 06-A-007-P1,  
07-A-1077-P

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.005 gr/dscf <sup>(2)(3)</sup>

Authority for Requirement: DNR Construction Permits 06-A-006-P1, 06-A-007-P1,  
07-A-1077-P

<sup>(2)</sup> Standard is expressed as the average of three (3) runs.

<sup>(3)</sup> Includes both filterable and condensable (front half and back half).



**Other Limits:**

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

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

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.19 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-006-P1, 06-A-007-P1,  
07-A-1077-P

<sup>(2)</sup> 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 Permits 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 PM<sub>10</sub> compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permits 06-A-006-P1, 06-A-007-P1,  
07-A-1077-P

**Emission Point Characteristics**

*The emission points 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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: Filter Separator

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

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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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 06-A-009-P1, 06-A-010-P1

<sup>(1)</sup>Standard is a 1 hour average.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.01 gr/dscf <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-009-P1, 06-A-010-P1

Pollutant: Particulate Matter (PM) - State

Emission Limit(s): 0.01 gr/dscf <sup>(2)</sup> <sup>(3)</sup>

Authority for Requirement: DNR Construction Permits 06-A-009-P1, 06-A-010-P1

<sup>(2)</sup> Standard is expressed as the average of three (3) runs.

<sup>(3)</sup> Includes both filterable and condensable (front half and back half).

#### Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

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

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.17 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-009-P1, 06-A-010-P1

<sup>(2)</sup> 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 Permits 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 PM<sub>10</sub> 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 points shall conform to the specifications listed below.*

	<b>EP-074</b>	<b>EP-075</b>
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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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: Bin Vent Filter

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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% <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-012-P2

<sup>(1)</sup>Standard is a 1 hour average.

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.01 gr/dscf <sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-012-P2

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

<sup>(2)</sup> Standard is expressed as the average of three (3) runs.

<sup>(3)</sup> Includes both filterable and condensable (front half and back half).

#### **Other Limits:**

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

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.24 lb/hr<sup>(2)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-012-P2

<sup>(2)</sup> 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 PM<sub>10</sub> 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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: Bin Vent Filter

---

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 (PM<sub>10</sub>)  
Emission Limit(s): 0.005 gr/dscf <sup>(1)</sup>  
Authority for Requirement: DNR Construction Permit 06-A-013-P1

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

<sup>(1)</sup> Standard is expressed as the average of three (3) runs.

<sup>(2)</sup> Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permit 06-A-013-P1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.07 lb/hr <sup>(2)</sup>

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

<sup>(2)</sup> 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  
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): 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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: Bin Vent Filter

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

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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% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 06-A-014-P1, 06-A-015-P1,  
06-A-016-P1

<sup>(1)</sup>Standard is a 1 hour average.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.005 gr/dscf <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-014-P1, 06-A-015-P1,  
06-A-016-P1

Pollutant: Particulate Matter (PM, State)

Emission Limit(s): 0.005 gr/dscf <sup>(2), (3)</sup>

Authority for Requirement: DNR Construction Permits 06-A-014-P1, 06-A-015-P1,  
06-A-016-P1

<sup>(2)</sup>Standard is expressed as the average of three (3) runs.

<sup>(3)</sup>Includes both filterable and condensable (front half and back half).

Other Limits:

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 06-A-014-P1, 06-A-015-P1,  
06-A-016-P1  
567 IAC 23.3(2)"d"

<sup>(1)</sup>Averaging period is six (6) minutes.

Pollutant: Particulate Matter (PM<sub>10</sub>)

Emission Limit(s): 0.21 lb/hr <sup>(2)</sup>

Authority for Requirement: DNR Construction Permits 06-A-014-P1, 06-A-015-P1,  
06-A-016-P1

<sup>(2)</sup>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 Permits 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 PM<sub>10</sub> compliance test within 30 days if it exceeds the one (1) hour, 5% opacity BACT limit.

Authority for Requirement: DNR Construction Permits 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 flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?**      Yes  No

**Facility Maintained Operation & Maintenance Plan Required?**      Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes  No

*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-86**

### Associated Equipment

Associated Emission Unit ID Numbers: EU-86  
Emissions Control Equipment ID Number: CE 86  
Emissions Control Equipment Description: Bin Vent Filter

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Emission Unit vented through this Emission Point: EU-86  
Emission Unit Description: Mercury (Hg) Control Sorbent Storage Silo  
Raw Material: Activated Carbon/Amended Silicate Compounds  
Rated Capacity: 79 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.*

Pollutant: Opacity  
Emission Limit(s): No Visible Emissions  
Authority for Requirement: DNR Construction Permit 14-A-003-S1  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter (PM<sub>10</sub>)  
Emission Limit(s): 0.013 lb/hr  
Authority for Requirement: DNR Construction Permit 14-A-003-S1

Pollutant: Particulate Matter (PM) - State  
Emission Limit(s): 0.013 lb/hr, 0.1 gr/dscf  
Authority for Requirement: DNR Construction Permit 14-A-003-S1  
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.*

#### **Operating Limits:**

- A. The control equipment (CE 86) shall be inspected and maintained according to manufacturer's specifications.
- B. Per 567 IAC 33.3(18)"f"(1), prior to beginning actual construction of the project (Project Number 13-467) the owner or operator shall document:
  - (1) A description of the project (Project Number 13-467),
  - (2) Identification of the emission unit(s) whose emissions of a regulated NSR pollutant could be affected by the project (Project Number 13-467), and

- (3) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions (BAE), the projected actual emissions (PAE), the amount of emissions excluded under paragraph “3” of the definition of “*projected actual emissions*” in subrule 33.3(1), an explanation describing why such amount was excluded, and any netting analysis if applicable.

**Reporting & Record keeping:**

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

- A. A record of all inspections and maintenance on the control equipment (CE 86).
- B. Per 567 IAC 33.3(18)“f”(1), the owner or operator shall maintain a record of the information required in Condition B of the operating limits above for a period of five (5) years.

Authority for Requirement: DNR Construction Permit 14-A-003-S1

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 73

Stack Opening, (inches): 8 x 10

Exhaust Flow Rate (scfm): 900

Exhaust Temperature (°F): 68

Discharge Style: Horizontal

Authority for Requirement: DNR Construction Permit 14-A-003-S1

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)



## Emission Point ID Numbers: EP-087, EP-088

### Associated Equipment

Associated Emission Unit ID Numbers: EU-087, EU-088

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Emission Units vented through this Emission Points: EU-087, EU-088

Emission Unit Description: Emergency Generator (EP-087)  
Emergency Generator (EP-088)

Raw Material/Fuel: Diesel

Rated Capacity: 1000 KW  
72.4 gal/hr (each)

### Applicable Requirements

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

*The emissions from each of these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40% <sup>(1)</sup>

Authority for Requirement: DNR Construction Permits 18-A-448 & 18-A-449  
567 IAC 23.3(2)"d"

<sup>(1)</sup>Averaging period is six (6) minutes.

#### NSPS Subpart III Emission Limits

In accordance with §60.4211(c), the engine must be certified by its manufacturer to comply with the emissions standards for emergency engines from §60.4205 (b) and §60.4202 (a)(2). The emission standards that the engine must be certified by the manufacturer to meet are:

<b>Pollutant</b>	<b>Emission Standard</b>	<b>Basis</b>
Particulate Matter (PM)	0.54 grams/kW-hr	§ 89.112 Table 2
NMHC <sup>1</sup> + NO <sub>x</sub>	10.5 grams/kW-hr	§ 89.112 Table 2
Carbon Monoxide (CO)	3.5 grams/kW-hr	§ 89.112 Table 1
Opacity – acceleration mode	20%	§ 89.113 (a)(1)
Opacity – lugging mode	15%	§ 89.113 (a)(2)
Opacity – peaks in acceleration or lugging modes	50%	§ 89.113 (a)(3)

Authority for Requirement: 40 CFR 60 Subpart III  
567 IAC 23.1(2)"yyy"  
DNR Construction Permits 18-A-448 & 18-A-449

## **Operational Requirements with Associated Monitoring and Recordkeeping**

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

- A. This engine is limited to operating a maximum of 500 hours in any rolling 12-month period.
- B.
  - i. This engine is limited to operate as an emergency stationary internal combustion engine as defined in §60.4219 and in accordance with §60.4211(f). There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition 5.A. is not exceeded. In accordance with §60.4211(f)(2), the engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing.
  - ii. In accordance with §60.4211(f)(3), the engine is also allowed to operate up to 50 hours per year in non-emergency situations, but the 50 hours are counted toward the 100 hours provided for maintenance and testing. The 50 hours per year for non-emergency operation cannot be used for peak shaving or non-emergency demand response or to generate income for the facility to supply power to the electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity.
- C. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
- D. The owner or operator shall maintain the following monthly records:
  - i. the number of hours that the engine operated for maintenance checks and readiness testing;
  - ii. the number of hours that the engine operated for allowed non-emergency operations;
  - iii. the total number of hours that the engine operated and
  - iv. the rolling 12-month total amount of the number of hours that the engine operated.
- E. The owner or operator shall maintain the following annual records:
  - i. the number of hours that the engine operated for maintenance checks and readiness testing; and
  - ii. the number of hours that the engine operated for allowed non-emergency operations.
  - iii. the total number of hours that the engine operated for maintenance checks, readiness testing, and allowed non-emergency operations.
- F. In accordance with §60.4207(b), the diesel fuel oil burned in this engine shall meet the following specifications from 40 CFR 80.510(b) for nonroad diesel fuel:

Parameter	Limit
Sulfur (S) content	15 ppm (0.0015%) by weight
Minimum cetane index or	40
Maximum aromatic content	35% (by volume)

The owner or operator of the engine shall comply with these requirements listed above by one of the following methods:

- i. have the fuel supplier certify that the fuel delivered meets the definition of non-road diesel fuel as defined in 40 CFR 80.510(b);
  - ii. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
  - iii. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.
- G. The engine must be installed and configured according to the manufacturer’s emission-related specifications, except as permitted in §60.4211(g).
- H. In accordance with §60.4211(a), this engine shall be operated and maintained in accordance with the manufacturer’s emission-related written instructions. The owner or operator may only change emission-related engine settings that are permitted by the manufacturer.

Authority for Requirement: DNR Construction Permits 18-A-448 & 18-A-449  
567 IAC 23.1(4)"cy"

**NSPS and NESHAP Applicability**

These emission points are subject to NSPS Subpart A – General Provisions and Subpart III – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*

**For emergency CI engines with Disp. ≥ 30 l/cyl constructed after 7/11/2005 and manufactured after 4/1/2006:**

Emission Standards (for engines with displacement (L/cyl) ≥ 30):

According to 40 CFR 60.4205(d), you must comply with the following emission standards in grams/kW-hr (grams/HP-hr):

Engine Displacement (liters/cylinder)	Engine Installation Date	Maximum Engine Speed (rpm)	NOx	PM
Disp. ≥ 30	Prior to 1/1/2012	n < 130	17.0 (12.7)	0.40 (0.30)
		130 < n ≤ 2000	$45.0 \times n^{-0.20}$ (34.0 × $n^{-0.20}$ )	
		2000 < n	9.8 (7.3)	
	On or after 1/1/2012	n < 130	14.4 (10.7)	
		130 < n ≤ 2000	$44.0 \times n^{-0.23}$ (33.0 × $n^{-0.23}$ )	
		2000 < n	7.7 (5.7)	

Fuel Requirements:

You must use diesel fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm). 40 CFR 60.4207(d).

Compliance Requirements:

1. You must operate and maintain the engine to comply with the required emission standards over the entire life of the engine (40 CFR 60.4206) by doing all of the following (40 CFR 60.4211(a)).
  - a) Operating and maintaining the engine and control device according to the manufacturer's emission-related written instructions;
  - b) Changing only those emission-related settings that are permitted by the manufacturer; and
  - c) Meeting the requirements of 40 CFR 89, 94 and/or 1068, as they apply to you.
2. You must comply with the emission standards and demonstrate compliance according to the following (40 CFR 60.4211(d))
  - a) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213; and
  - b) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. You must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in 40 CFR 60.4211(d)(2)(i) through (v).
3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct the following performance testing in accordance with 40 CFR 60.4213 to demonstrate compliance with applicable emission standards. You are required to notify the DNR 30 days prior to the test date and are required to submit a stack test report to the DNR within 60 days after the completion of the testing. See 40 CFR 60.4211(g) for additional information.

Maximum Engine Power	Initial Test	Subsequent Test
HP < 100	Within 1 year of non-permitted action <sup>(1)</sup>	Not required
100 ≤ HP ≤ 500	Within 1 year of engine startup, or non-permitted action <sup>(1)</sup>	Not required
500 < HP	Within 1 year of engine startup, or non-permitted action <sup>(1)</sup>	Every 8,760 hours or 3 years, whichever comes first

<sup>(1)</sup> Non-permitted action means that you do not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer.

### Operating and Recordkeeping Requirements

1. If your emergency engine does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine (40 CFR 60.4209(a)) and, starting with the model years in the following table, you must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time. 40 CFR 60.4214(b).

Engine power	Starting model year
19 ≤ KW < 56 (25 ≤ HP < 75)	2013
56 ≤ KW < 130 (75 ≤ HP < 175)	2012
130 ≤ KW (175 ≤ HP)	2011

2. There is no time limit on the use of the emergency engine in emergency situations. 40 CFR 60.4211(f)(1).
3. The engine may be operated for the purpose of maintenance checks and readiness testing for a maximum of 100 hours/year. See 40 CFR 60.4211(f)(2) for more information.
4. The engine may be operated for up to 50 hours per year for non-emergency purposes. This operating time cannot be used for peak shaving or to generate income for the facility (e.g. supplying power to the grid) and should be included in the total of 100 hours allowed for maintenance checks and readiness testing. See 40 CFR 60.4211(f)(3) for more information.

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

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

Authority for Requirement: 40 CFR Part 63 Subpart ZZZZ  
567 IAC 23.1(4)"cz"  
DNR Construction Permits 18-A-448 & 18-A-449

**Emission Point Characteristics**

*These emission points shall conform to the specifications (each) listed below.*

Stack Height, (ft, from the ground): 10.6  
Stack Opening, (inches, dia.): 13.5  
Exhaust Flow Rate (acfm): 2,950  
Exhaust Temperature (°F): 890  
Discharge Style: Vertical obstructed  
Authority for Requirement: DNR Construction Permits 18-A-448 & 18-A-449

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point characteristics above are different than the values stated, the owner or operator shall submit a request either by electronic mail or written correspondence to the Department within thirty (30) days of the discovery to determine if a permit amendment is required, or submit a permit application requesting to amend the permit.

**Monitoring Requirements**

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

**Agency Approved Operation & Maintenance Plan Required?** Yes  No

**Facility Maintained Operation & Maintenance Plan Required?** Yes  No

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes  No

Authority for Requirement: 567 IAC 22.108(3)

## IV. General Conditions

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

### G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*
6. For applicable requirements with which the permittee is in compliance, the permittee shall continue to comply with such requirements. For applicable requirements that will become effective during the permit term, the permittee shall meet such requirements on a timely basis. *567 IAC 22.108(15)"c"*

### G2. Permit Expiration

1. Except as provided in rule 567—22.104(455B), permit expiration terminates a source's right to operate unless a timely and complete application for renewal has been submitted in accordance with rule 567—22.105(455B). *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall submit on forms or electronic format specified by the Department to the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, Wallace State Office Building, 502 E 9th St., Des Moines, IA 50319-0034, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to U.S. EPA Region VII, Attention: Chief of Air Permitting & Standards Branch, 11201 Renner Blvd., Lenexa, KS 66219. Additional copies to local programs or EPA are not required for application materials submitted through the electronic format specified by the Department. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

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

#### **G4. Annual Compliance Certification**

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

#### **G5. Semi-Annual Monitoring Report**

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

#### **G6. Annual Fee**

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

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



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

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

#### **G8. Duty to Provide Information**

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

#### **G9. General Maintenance and Repair Duties**

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

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

#### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

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

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

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

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

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

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

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 725-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

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

incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. A variance from this subrule may be available as provided for in Iowa Code section 455B.143. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

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

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

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

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

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

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice fulfills the requirement of paragraph 22.108(5)"b." – See G15. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. *567 IAC 22.108(16)*

#### **G15. Permit Deviation Reporting Requirements**

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

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

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

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

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act (revisions affecting Title IV permitting are addressed in rules 567—22.140(455B) through 567 - 22.144(455B));
  - e. The changes comply with all applicable requirements.
  - f. For each such change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
    - i. A brief description of the change within the permitted facility,
    - ii. The date on which the change will occur,
    - iii. Any change in emission as a result of that change,
    - iv. The pollutants emitted subject to the emissions trade
    - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
    - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
    - vii. Any permit term or condition no longer applicable as a result of the change.
2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

**G18. Duty to Modify a Title V Permit**

1. Administrative Amendment.

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

2. Minor Title V Permit Modification.

- a. Minor Title V permit modification procedures may be used only for those permit modifications that satisfy all of the following:
  - i. Do not violate any applicable requirement;
  - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit;
  - iii. Do not require or change a case by case determination of an emission limitation or other standard, or an increment analysis;
  - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act;
  - v. Are not modifications under any provision of Title I of the Act; and
  - vi. Are not required to be processed as significant modification under rule 567 - 22.113(455B).
- b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
  - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
  - ii. The permittee's suggested draft permit;
  - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of minor permit modification procedures and a request that such procedures be used; and

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

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

### 3. Significant Title V Permit Modification.

Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, as those requirements that apply to Title V issuance and renewal.

The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.111-567 IAC 22.113

### **G19. Duty to Obtain Construction Permits**

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

### **G20. Asbestos**

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

### **G21. Open Burning**

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

### **G22. Acid Rain (Title IV) Emissions Allowances**

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

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

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

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.



- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
  - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
  - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
  4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
  5. The permittee shall be allowed to switch from any ozone-depleting or greenhouse gas generating substances to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
  - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
  - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;

- b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
- c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
- d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

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

#### **G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the permit; or
- b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

- a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

#### **G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to

other circumstances, and the remainder of this permit, shall not be affected by such finding. 567 IAC 22.108 (8)

**G27. Property Rights**

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

**G28. Transferability**

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

**G29. Disclaimer**

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

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

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. If the owner or operator does not provide timely notice to the department, the department shall not consider the test results or performance evaluation results to be a valid demonstration of compliance with applicable rules or permit conditions. Upon written request, the department may allow a notification period of less than 30 days. At the department's request, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. A testing protocol shall be submitted to the department no later than 15 days before the owner or operator conducts the compliance demonstration. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

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

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-9545

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

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

**G31. Prevention of Air Pollution Emergency Episodes**

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

*567 IAC 26.1(1)*

**G32. Contacts List**

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

Iowa Compliance Officer  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA Region 7  
11201 Renner Blvd.  
Lenexa, KS 66219  
(913) 551-7020

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

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-8200

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

**Field Office 1**

1101 Commercial Court, Suite 10  
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**

Wallace State Office Building  
502 E 9<sup>th</sup> St.  
Des Moines, IA 50319-0034  
(515) 725-0268

**Field Office 6**

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

**Polk County Public Works Dept.**

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

**Linn County Public Health**

Air Quality Branch  
1020 6<sup>th</sup> Street SE  
Cedar Rapids, IA 52401  
(319) 892-6000

## V. Appendix

### Appendix A: NSPS and NESHAP

- A. 40 CFR 60 Subpart A – General Provisions  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.a>
- B. 40 CFR 60 Subpart D – Standards of Performance for Fossil Fuel Fired Steam Generators for which Construction is Commenced after August 17, 1971  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.d>
- C. 40 CFR 60 Subpart Y – Coal Preparation Plants and Processing Plants  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.y>
- D. 40 CFR 60 Subpart GG – Standards of Performance for Stationary Gas Turbines  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.7.60.gg>
- E. 40 CFR 63 Subpart A – General Provisions  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.10.63.a>
- F. 40 CFR 63 Subpart YYYY – National Emission Standard for Hazardous Air Pollutants for Stationary Combustion Turbines  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.13.63.yyyy>
- G. 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE NESHAP)  
<http://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.zzzz>
- 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.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.14.63.ddddd>
- 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.ecfr.gov/cgi-bin/retrieveECFR?gp=&r=SUBPART&n=sp40.15.63.uuuuu>