

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

**Name of Permitted Facility: ADM Clinton Cogeneration**

**Facility Location: 1800 S 5<sup>th</sup> Street, Clinton, IA 52732**

**Air Quality Operating Permit Number: 11-TV-007R2**

**Expiration Date: 4/12/2027**

**Permit Renewal Application Deadline: 10/12/2026**

**EIQ Number: 92-6795**

**Facility File Number: 23-01-006-02**

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**Responsible Official**

**Name: Eric Fasnacht**

**Title: Plant Manager**

**Mailing Address: 1251 Beaver Channel Parkway, Clinton, IA 52732**

**Phone #: (563) 242-1121**

**Permit Contact Person for the Facility**

**Name: Emily Hoeft**

**Title: Environmental Manager**

**Mailing Address: 1251 Beaver Channel Parkway, Clinton, IA 52732**

**Phone #: (563) 241-4533**

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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. Three Title V Permits are issued for the ADM Corn Processing - Clinton (one stationary source). This permit is for the Cogeneration Plant portion of the facility. Title V permit 06-TV-007 is issued for the Corn Processing portion of the facility. Title V permit 17-TV-002 is issued for the PHA BioProcessing Plant.

**For the Director of the Department of Natural Resources**

*Marnie Stein*

04/13/2022

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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
gr./100 cf	grains per one hundred cubic feet
IAC	Iowa Administrative Code
IDNR	Iowa Department of Natural Resources
MVAC	motor vehicle air conditioner
NAICS	North American Industry Classification System
NSPS	new source performance standard
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: ADM Clinton Cogeneration

Permit Number: 11-TV-007R2

Facility Description: Electric Services (SIC 4911)

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## Equipment List

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<b>Emission Point Number</b>	<b>Emission Unit Number</b>	<b>Emission Unit Description</b>	<b>IDNR Construction Permit Number</b>
EPAH-1	EUAH-1	Fly Ash Handling	05-A-326
EPAH-2	EUAH-1	Fly Ash Handling	05-A-327
EPAH-3	EUAH-1	Fly Ash Handling	05-A-328
EPAH-4	EUAH-2	Fly Ash Storage Silo	05-A-329-S1
EPAH-5	EUAH-3	Bed Ash Handling	05-A-330
EPAH-6			05-A-331
EPAH-8	EUAH-4	Bed Ash Storage	05-A-333-S1
EPCH-1	EUCH-1	Coal Receiving	05-A-320-S2
EPCH-4			06-A-1015-S1
EPCH-2	EUCH-2	Coal Transfer & Storage	05-A-321-S2
EPCH-3	EUCH-3	Coal Preparation	05-A-322-S2
EPCOG-1	EUCOG-1	No. 1 Circulating Fluidized Bed Boiler - Coal	05-A-313-P
EPCOG-2	EUCOG-2	No. 2 Circulating Fluidized Bed Boiler - Coal	05-A-314-P
EPCOG-3	EUCOG-3	No. 3 Circulating Fluidized Bed Boiler - Coal	05-A-315-P
EPCOG-4	EUCOG-4	No. 1 Natural Gas Fired Boiler	05-A-316-P2
EPCOG-5	EUCOG-5	No. 2 Natural Gas Fired Boiler	05-A-317-P2
EPCT-1	EUCT-1	Cooling Tower Cell #1	05-A-334-S1
EPCT-2	EUCT-2	Cooling Tower Cell #2	05-A-335-S1
EPCT-3	EUCT-3	Cooling Tower Cell #3	05-A-336-S1
EPCT-4	EUCT-4	Cooling Tower Cell #4	06-A-966
EPIC-1	EUIC-1	Emergency Generator (1,490 bhp)	05-A-318-P2
EPLH-1	EULH-1	Limestone Receiving	05-A-323
EPLH-2	EULH-2	Limestone Transfer and Storage	05-A-324-S1
EPLH-3	EULH-3	Limestone Transfer and Storage	05-A-325-S1

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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 DT-1	500 Gallon Diesel Tank
EPGT-1	500 Gallon Gasoline Tank
EPHCLT-1	10,000 Gallon HCl Tank
EPHCLT-2	10,000 Gallon HCl Tank
EPBW-2	25,000 Gallon Neutralization Tank
EPBW-3	25,000 Gallon Neutralization Tank

## II. Plant-Wide Conditions

Facility Name: ADM Clinton Cogeneration

Permit Number: 11-TV-007R2

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 (5) years from permit issuance

Commencing on: 04/13/2022

Ending on: 04/12/2027

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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NSPS:

EUCH-2 and EUCH-3 are subject to 40 CFR 60 Subpart Y – Standards of Performance for Coal Preparation and Processing Plants.

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

EUCOG-1, EUCOG-2, EUCOG-3, EUCOG-4 and EUCOG-5 are subject to 40 CFR 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (40 CFR §60.40c through 40 CFR §60.48c) and is also subject to the requirements of 567 IAC 23.1(2)"ccc".

Authority for Requirement: 40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

EUIC-1 is subject to 40 CFR 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

Authority for Requirement: 40 CFR Part 60 Subpart IIII  
567 IAC 23.1(2)"yyy"

NESHAP:

EUIC-1 is subject to 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590(a)(2)(i) this emergency engine, located at a major source, is a new stationary RICE as it was constructed on or after December 19, 2002.

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

EUCOG-1, EUCOG-2, EUCOG-3, EUCOG-4 and EUCOG-5 are subject to the 40 CFR 63 Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters.

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

### III. Emission Point-Specific Conditions

Facility Name: ADM Clinton Cogeneration  
 Permit Number: 11-TV-007R2

#### Emission Point ID Number: EPAH-1, EPAH-2, EPAH-3

#### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EPAH-1	EUAH-1	Fly Ash Handling	CEAH-1: Baghouse	Fly Ash	120,000 lbs/hr.	05-A-326
EPAH-2			CEAH-2: Baghouse			05-A-327
EPAH-3			CEAH-3: Baghouse			05-A-328

#### Applicable Requirements

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

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

Pollutant: Opacity

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

Authority for Requirement: Iowa DNR Construction Permits 05-A-326, 05-A-327, and 05-A-328  
 567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limit(s): 0.008 gr/dscf, 0.42 lb/hr.

Authority for Requirement: Iowa DNR Construction Permits 05-A-326, 05-A-327, and 05-A-328

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/dscf, 0.42 lb/hr.

Authority for Requirement: Iowa DNR Construction Permits 05-A-326, 05-A-327, and 05-A-328  
 567 IAC 23.3(2)"a"



**Emission Point Characteristics**

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

Stack Height, (ft, from the ground): 158

Stack Opening, (inches, dia.): 16

Exhaust Temperature (°F): 140

Exhaust Flow Rate (acfm): 6,050

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-326, 05-A-327, and 05-A-328

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   
*(Required for CEAH1, CEAH-2, & CEAH-3)*

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: EPAH-4

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EUAH-2	Fly Ash Storage Silo	CEAH-4: Baghouse	Fly Ash	240,000 lbs/hr.	05-A-329-S1

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## 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 Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-329-S1  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 0.008 gr/dscf, 0.17 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-329-S1

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.17 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-329-S1  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 127

Stack Opening (inches, length x width): 18 x 30

Exhaust Temperature (°F): 90

Exhaust Flowrate (acfm): Displacement Air

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 05-A-329-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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: EPAH-5 and EPAH-6

### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EPAH-5	EUAH-3	Bed Ash Handling	CEAH-5: Baghouse	Bed Ash	60,000 lbs/hr.	05-A-330
EPAH-6			CEAH-6: Baghouse			05-A-331

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## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-330 and 05-A-331  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 0.008 gr/dscf, 0.32 lb/hr.

Authority for Requirement: Iowa DNR Construction Permits 05-A-330 and 05-A-331

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.32 lb/hr.

Authority for Requirement: Iowa DNR Construction Permits 05-A-330 and 05-A-331  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 158

Stack Opening (inches, dia): 14

Exhaust Temperature (°F): 140

Exhaust Flowrate (acfm): 4,600

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-330 and 05-A-331

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   
*(Required for CEAH-5 and CEAH-6)*

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: EPAH-8

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EUAH-4	Bed Ash Storage	CEAH-8: Baghouse	Bed Ash	120,000 lbs/hr.	05-A-333-S1

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## 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 Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-333-S1  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 0.008 gr/dscf, 0.17 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-333-S1

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.17 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-333-S1  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 127

Stack Opening (inches, length x width): 18 x 22

Exhaust Temperature (°F): 90

Exhaust Flowrate (acfm): Displacement Air

Discharge Style: Horizontal

Authority for Requirement: Iowa DNR Construction Permit 05-A-333-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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Numbers: EPCH-1 and EPCH-4

### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EPCH-1	EUCH-1	Coal Receiving	CECH-1: Baghouse	Coal	2,400,000 lbs/hr.	05-A-320-S2
EPCH-4			CECH-4: Baghouse			06-A-1015-S1

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## Applicable Requirements

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

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

Pollutant: Opacity

Emission Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-320-S2 and 06-A-1015-S1  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 2.44 lb/hr

Authority for Requirement: Iowa DNR Construction Permits 05-A-320-S2 and 06-A-1015-S1

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 2.44 lb/hr

Authority for Requirement: Iowa DNR Construction Permits 05-A-320-S2 and 06-A-1015-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.*

Process throughput:

1. This emission unit shall be limited to operating a maximum of 7400 hours per twelve (12) month rolling period.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. For each day this emission unit is used record the following:
  - The date,
  - Time of startup,
  - Time of shutdown, and
  - Total hours of operation.



2. After the first twelve (12) months of operation, the permit holder, owner or operator of the facility shall determine the annual hours of operation. This shall be done on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permits 05-A-320-S2 and 06-A-1015-S1

**Emission Point Characteristics**

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

Stack Height (feet, from the ground): 85

Stack Opening (inches, dia.): 52

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): 75,000

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-320-S2 and 06-A-1015-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)

# Compliance Assurance Monitoring Plan

## EUCH-1 Coal Receiving Bag Filters for PM/PM-10 Control

- I. Background
  - a. Applicable Regulation, Emission Limit and Monitoring Requirements
    - i. Regulation: Construction Permit 05-A-320-S2 & 06-A-1015-S1
    - ii. Regulated Pollutant: PM / PM<sub>10</sub>
    - iii. Emission Limit: 2.44 lb/hr
  - b. Control Technology: Baghouse
- II. Monitoring Approach: The key elements of the monitoring approach for PM / PM<sub>10</sub> are presented in the following table:

Indicator	Indicator No. 1	Indicator No. 2
	Visible Emissions	Pressure Drop (DP)
<b>Measurement Approach</b>	Visible emissions observations performed weekly.	DP through the bag house is measured continuously using a differential pressure gauge.
<b>Indicator Range</b>	No visible emissions.	2 – 10 inches of H <sub>2</sub> O Excursions trigger an inspection, corrective action, and a reporting requirement. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours.
<b>Performance Criteria</b>		
<b>Data Representativeness</b>	Observations of the stack exhaust are performed while the system is operating.	DP across the baghouse is measured at the baghouse inlet and exhaust. The minimum accuracy of the device is +/- 0.5 inches of H <sub>2</sub> O.
<b>Verification of Operational Status</b>	Not Applicable	Not Applicable
<b>QA/QC Practices and Criteria</b>	Trained observers perform visible emissions observations.	Pressure transmitters and gauges are calibrated annually. Pressure taps are checked annually for plugging.
<b>Monitoring Frequency</b>	Weekly	DP is recorded as a 24-hour average.
<b>Data Collection Procedures</b>	Observers complete visible emissions forms and keep records on file.	The daily value recorded electronically in a readily accessible format.
<b>Averaging Period</b>	Not Applicable	24 Hours

## Emission Point ID Number: EPCH-2

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EUCH-2	Coal Transfer & Storage	CECH-2: Baghouse	Coal	2,400,000 lbs/hr.	05-A-321-S2

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## 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 Limits: 20%

Authority for Requirement: Iowa DNR Construction Permit 05-A-321-S2  
567 IAC 23.1(2)"v"  
40 CFR 60.254(a) (Subpart Y)

Pollutant: PM<sub>10</sub>

Emission Limits: 1.00 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-321-S2

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 1.00 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-321-S2  
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.*

#### NSPS Applicability:

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

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

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 188.3

Stack Opening (inches, dia.): 34

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (scfm): 30,750

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-321-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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)

Stack Test to be Completed by – April 30, 2024

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<sub>10</sub>)

Stack Test to be Completed by – April 30, 2024

Test Method - 40 CFR 51, Appendix M, 201A with 202\*

Authority for Requirement - 567 IAC 22.108(3)

\* Or approved alternative.

*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

### EUCH-2 Coal Transfer & Storage for PM/PM-10 Control

- I. Background
- a. Applicable Regulation, Emission Limit and Monitoring Requirements
- i. Regulation: Construction Permit 05-A-321-S2
  - ii. Regulated Pollutant: PM/PM-10
  - iii. Emission limit: 1.0 lb/hr PM/PM10  
0.1 gr/dscf PM
- b. Control Technology: Baghouses

II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

	Indicator No. 1	Indicator No. 2
<b>Indicator</b>	Visible Emissions	Pressure drop (DP)
<b>Measurement Approach</b>	Visible emission observations performed weekly.	DP through the bag house is measured continuously using a differential pressure gauge. Continuous indication of each baghouse compartment is given to operations by the process control system.
<b>Indicator Range</b>	The indicator range is no visible emissions.	The indicator range is 2-10 in H <sub>2</sub> O. Excursions are detected by process control system and operations are notified by an alarm to the control room. An alarm due to out of range dp would trigger an immediate reaction by operations. Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours.
<b>Performance Criteria</b>		
<b>Data Representativeness</b>	Observations of the stack exhaust are performed while the system is operating.	DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.5 in. H <sub>2</sub> O.
<b>Verification of Operational Status</b>	NA	NA
<b>QA/QC Practices and Criteria</b>	Trained observers perform visible emission observations.	Pressure transmitters and gauges are calibrated annually. Pressure taps checked annually for plugging.
<b>Monitoring Frequency</b>	Weekly	24 hour average collected and recorded by process controls system.
<b>Data Collection Procedures</b>	Observers complete visible emission forms and keep records on file.	Daily dp average is recorded electronically in a readily-accessible format.
<b>Averaging Period</b>	NA	24 hour

## Emission Point ID Number: EPCH-3

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EUCH-3	Coal Preparation	CECH-3: Baghouse	Coal	3,800,000 lbs/hr.	05-A-322-S2

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### Applicable Requirements

Pollutant: Opacity

Emission Limits: 20%

Authority for Requirement: Iowa DNR Construction Permit 05-A-322-S2  
567 IAC 23.1(2)"v"  
40 CFR 60.254(a) (Subpart Y)

Pollutant: PM<sub>10</sub>

Emission Limits: 0.004 gr/dscf, 0.84 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-322-S2

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.84 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-322-S2  
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.*

1. Maintain the pollution control equipment according to the manufacturer's specifications.
2. The amount of coal processed in this unit shall not exceed 1600 tons per hour.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. Maintain a record of any maintenance performed on the control equipment.
2. Record the amount of coal processed in this unit, in tons per hour.

Authority for Requirement: Iowa DNR Construction Permit 05-A-322-S2

### NSPS Applicability:

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

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

**Emission Point Characteristics**

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

- Stack Height (feet, from the ground): 100
- Stack Opening (inches, dia.): 30
- Exhaust Temperature (°F): Ambient
- Exhaust Flowrate (scfm): 25,750
- Discharge Style: Vertical Unobstructed
- Authority for Requirement: Iowa DNR Construction Permit 05-A-322-S2

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that 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)
  - Stack Test to be Completed by – April 30, 2024
  - 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<sub>10</sub>)
  - Stack Test to be Completed by – April 30, 2024
  - Test Method - 40 CFR 51, Appendix M, 201A with 202\*
  - Authority for Requirement - 567 IAC 22.108(3)

\* Or approved alternative.

*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

### EUCH-3 Coal Preparation for PM/PM-10 Control

- I. Background
- a. Applicable Regulation, Emission Limit and Monitoring Requirements
- i. Regulation: Construction Permit 05-A-322-S2
  - ii. Regulated Pollutant: PM/PM-10
  - iii. Emission limit: 1.0 lb/hr PM/PM10  
0.1 gr/dscf PM  
0.004 gr/dscf PM10
- b. Control Technology: Baghouses
- II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

	Indicator No. 1	Indicator No. 2
<b>Indicator</b>	Visible Emissions	Pressure drop (DP)
<b>Measurement Approach</b>	Visible emission observations performed weekly.	DP through the bag house is measured continuously using a differential pressure gauge. Continuous indication of each baghouse compartment is given to operations by the process control system.
<b>Indicator Range</b>	The indicator range is no visible emissions.	The indicator range is 2-10 in H <sub>2</sub> O. Excursions are detected by process control system and operations are notified by an alarm to the control room. An alarm due to out of range dp would trigger an immediate reaction by operations. Upon review of the data, an inspection, corrective action, and reporting, if necessary, would occur. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours.
<b>Performance Criteria</b>		
<b>Data Representativeness</b>	Observations of the stack exhaust are performed while the system is operating.	DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.5 in. H <sub>2</sub> O.
<b>Verification of Operational Status</b>	NA	NA
<b>QA/QC Practices and Criteria</b>	Trained observers perform visible emission observations.	Pressure transmitters and gauges are calibrated annually. Pressure taps checked annually for plugging.
<b>Monitoring Frequency</b>	Weekly	24 hour average collected and recorded by process controls system.
<b>Data Collection Procedures</b>	Observers complete visible emission forms and keep records on file.	Daily dp average is recorded electronically in a readily-accessible format.
<b>Averaging Period</b>	NA	24 hour



## Coal Fired Boilers Applicable Requirements

### Emission Point ID Numbers: EPCOG-1, EPCOG-2, EPCOG-3

#### Associated Equipment

<b>Emission Point ID</b>	EPCOG-1	EPCOG-2	EPCOG-3
<b>Emission Unit ID</b>	EUCOG-1	EUCOG-2	EUCOG-3
<b>Emission Unit Description</b>	No.1 Circulating Fluidized Bed Boiler	No.2 Circulating Fluidized Bed Boiler	No.3 Circulating Fluidized Bed Boiler
<b>Control Equipment ID</b>	CECOG-1A CECOG-1B CECOG-1C	CECOG-2A CECOG-2B CECOG-2C	CECOG-3A CECOG-3B CECOG-3C
<b>Control Equipment Description</b>	Baghouse Limestone Injection Flue Gas Desulfurization Selective Non-Catalytic Reduction	Baghouse Limestone Injection Flue Gas Desulfurization Selective Non-Catalytic Reduction	Baghouse Limestone Injection Flue Gas Desulfurization Selective Non-Catalytic Reduction
<b>Monitoring Equipment ID</b>	MECOG-1A MECOG-1B MECOG-1C MECOG-1D MECOG-1E MECOG-1F	MECOG-2A MECOG-2B MECOG-2C MECOG-2D MECOG-2E MECOG-2F	MECOG-3A MECOG-3B MECOG-3C MECOG-3D MECOG-3E MECOG-3F
<b>Monitoring Equipment Description</b>	NO <sub>x</sub> CO SO <sub>2</sub> Diluent CO <sub>2</sub> Opacity Flow	NO <sub>x</sub> CO SO <sub>2</sub> Diluent CO <sub>2</sub> Opacity Flow	NO <sub>x</sub> CO SO <sub>2</sub> Diluent CO <sub>2</sub> Opacity Flow
<b>Raw Material</b>	Coal Petroleum Coke Tire Derived Fuel Biomass Fuels Natural Gas Fuel Oil	Coal Petroleum Coke Tire Derived Fuel Biomass Fuels Natural Gas Fuel Oil	Coal Petroleum Coke Tire Derived Fuel Biomass Fuels Natural Gas Fuel Oil
<b>Rated Capacity</b>	1500 MMBtu/hr.	1500 MMBtu/hr.	1500 MMBtu/hr.
<b>Construction Permit</b>	05-A-313-P	05-A-314-P	05-A-315-P

## Applicable Requirements

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

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

#### **BACT Emission Limits**

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.004 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 1052 tons/yr.<sup>(1)</sup>, 0.15 lb/MMBtu<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

#### **Other Emission Limits**

Pollutant: Opacity

Emission Limit(s): 20%<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P  
567 IAC 23.1(2)"ccc"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 27.0 lb/hr., 0.018 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

Pollutant: Particulate Matter (Federal)

Emission Limit(s): 0.051 lb/MMBtu heat input

Authority for Requirement: 567 IAC 23.1(2)"ccc"

Pollutant: Particulate Matter (State)

Emission Limit(s): 0.018 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

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

Emission Limit(s): 1,200 lb/hr.<sup>(5)</sup>, 3,629 tons/yr.<sup>(6)</sup>, 1.2 lb/MMBtu heat input<sup>(3)</sup>, 90% reduction<sup>(7)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P  
567 IAC 23.1(2)"ccc"

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

Emission Limit(s): 1,445 tons/yr.<sup>(6)</sup>, 0.20 lb/MMBtu heat input<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P  
567 IAC 23.1(2)"ccc"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 450 lb/hr.<sup>(8)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

Pollutant: Lead

Emission Limit(s): 0.00003 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

Pollutant: Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)

Emission Limit(s): 0.004 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

Pollutant: Fluorine (F)

Emission Limit(s): 0.0012 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P

<sup>(1)</sup> 365-day rolling total

<sup>(2)</sup> This standard is a 30-day rolling average not including periods of startup, shutdown, and malfunction.

<sup>(3)</sup> 30 day rolling average

<sup>(4)</sup> Opacity shall not exceed 20% (6-minute average), except for one (1) 6-minute period per hour of not more than 27% opacity.

<sup>(5)</sup> 3 hour average.

<sup>(6)</sup> This emission limit is a “cap” for the boiler system, Nos. 1-3 CFB Boilers and Nos. 1 & 2 Gas Boilers.

<sup>(7)</sup> Reduction in the equivalent inlet SO<sub>2</sub> emission rate. The equivalent inlet SO<sub>2</sub> emission rate means the stack emissions (on a lb/MMBtu heat input basis) that would result from the combustion of “as-fired” fuels in the boiler without SO<sub>2</sub> controls, assuming 100% conversion on sulfur in the fuels to SO<sub>2</sub>.

<sup>(8)</sup> One-hour standard.

### **Operational Limits & Requirements**

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

Process throughput:

1. Each emission unit shall be limited to firing on coal, natural gas, fuel oil, and coal/alternative fuel blends.
2. The alternative fuels fired in the emission units shall be limited to petroleum coke, tire-derived fuel (TDF), and biomass fuels. The amount of alternative fuels utilized in the coal/alternative fuel blends shall not exceed 20% by heat input.
3. The sulfur content of the fuel fired in these emission units shall not exceed 6.5% by weight.
4. These units are subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §60.19) and Db (40 CFR §60.40b – 40 CFR §60.49b).

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d).
2. The permit holder, owner and operator of the facility shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.
3. The permit holder, owner and operator of the facility shall maintain a record of periods of startup, shutdown or malfunction.
4. The permit holder, owner and operator of the facility shall record an analysis showing the sulfur content representative of the fuel combusted each day.

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P  
567 IAC 23.1(2)"ccc"

NSPS:

This emission unit is subject to Subpart A – General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (40 CFR §60.40c through 40 CFR §60.48c) and is also subject to the requirements of 567 IAC 23.1(2)"ccc".

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-P  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

NESHAP:

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

**Emission Point Characteristics**

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

Stack Height (feet, from the ground): 412.5

Stack Opening (feet, dia.): 12

Exhaust Temperature (°F): 310

Exhaust Flowrate (acfm): 495,000

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-313-P, 05-A-314-P, and 05-A-315-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.*

#### **Continuous Emissions Monitoring:**

1. In accordance with 40 CFR §60.48b(a), the permit holder, owner and operator of the facility shall install calibrate, maintain, and operate a continuous monitoring system (CEMS) on each boiler for measuring the opacity of 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 1 (PS1).
2. In accordance with 40 CFR §60.48b(b), the permit holder, owner and operator of the facility shall install calibrate, maintain, and operate a continuous monitoring system (CEMS) on each boiler for measuring nitrogen oxides 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 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.
3. In accordance with 40 CFR §60.47b(a), the permit holder, owner and operator of the facility shall install calibrate, maintain, and operate a continuous monitoring system (CEMS) on each boiler for measuring sulfur dioxide (SO<sub>2</sub>) emissions discharged to the atmosphere and record the output of the system. SO<sub>2</sub> emissions shall be monitored at the outlet. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 2 (PS2) and Performance Specification 6 (PS6) requirements. The specifications of 40 CFR 60, Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.
4. In accordance with 40 CFR §60.47b(a), the permit holder, owner and operator of the facility shall install calibrate, maintain, and operate a continuous monitoring system (CEMS) on each boiler for measuring either oxygen or carbon dioxide content of the flue gas at each location where SO<sub>2</sub> emissions are monitored, and record the output of the system.
5. The permit holder, owner and operator of the facility shall install, calibrate, maintain, and operate a CEMS on each boiler, and record the output of the system, for measuring carbon monoxide (CO) emissions discharged to the atmosphere. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) 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 quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.
6. The required CEMS shall be operated and data recorded during all periods of operation of the affected facility including periods of startup, shutdown, malfunction or emergency conditions, except for CEMS breakdowns, repairs, calibration checks, and zero and span adjustments.
7. Compliance with the non-NSPS opacity, SO<sub>2</sub>, and NO<sub>x</sub> emission standards of this permit shall be demonstrated through the use of the monitors required by NSPS Subpart Db. The following conditions shall apply to all CEMS for non-NSPS opacity, SO<sub>2</sub>, NO<sub>x</sub>, and CO emission standards:
  - A. The CEMS required by this permit shall be operated and data recorded during all periods of operation except for CEM breakdowns, preventive maintenance and repairs. Data is recorded during calibration checks, and zero and span adjustments.

- B. The 1-hour average SO<sub>2</sub>, NO<sub>x</sub>, and CO emission rates measured by the CEMS required by this permit shall be used to calculate compliance with the emission standards of this permit. At least 2 data points must be used to calculate each 1-hour average.
- C. For each hour of missing emission data (NO<sub>x</sub>, SO<sub>2</sub>, or CO), the owner or operator shall substitute data by:
  - i. If the monitor data availability is equal to or greater than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
    - 1) For the missing data period less than or equal to 24 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
    - 2) For a missing data period greater than 24 hours, substitute the greater of:
      - a) The 90<sup>th</sup> percentile hourly concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
      - b) The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
  - ii. If the monitor data availability is at least 90.0% but less than 95.0%, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:
    - 1) For a missing data period of less than or equal to 8 hours, substitute the average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
    - 2) For the missing data period of more than 8 hours, substitute the greater of:
      - a) The 95<sup>th</sup> percentile hourly pollutant concentration recorded by a pollutant concentration monitor during the previous 720 quality-assured monitor operating hours; or
      - b) The average of the hourly concentrations recorded by a pollutant concentration monitor for the hour before and the hour after the missing data period.
  - iii. If the monitor data availability is less than 90.0%, the owner or operator shall obtain actual emission data by an alternate testing or monitoring method approved by the Department.
- 8. 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
- 9. The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

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

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

**Compliance Assurance Monitoring (CAM) Plan Required?**                      Yes  No   
*(Required for CECOG-1A, CECOG-2A, CECOG-3A – Baghouses for PM & PM<sub>10</sub>)*

Authority for Requirement: 567 IAC 22.108(3)

## Compliance Assurance Monitoring Plan

### EUCOG-1, 2, 3 Nos. 1-3 Coal Fired Boilers for PM/PM-10 Control

- I. Background
- a. Applicable Regulation, Emission Limit and Monitoring Requirements
- i. Regulation: Construction Permit 05-A-313-P, 05-A-314-P & 05-A-315-P
  - ii. Regulated Pollutant: PM/PM-10
  - iii. Emission limit: 27.0 lb/hr PM10  
0.018 lb/MMBtu PM/PM10  
0.051 lb/MMBtu Federal PM
- b. Control Technology: Baghouses
- II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

	Indicator No. 1	Indicator No. 2
Indicator	Visible Emissions	Pressure drop (DP)
Measurement Approach	Visible emission observations performed weekly.	DP through the bag house is measured continuously using a differential pressure gauge. Continuous indication of each baghouse compartment is given to operations by the process control system.
Indicator Range	The indicator range is no visible emissions.	The indicator range is 3-12 in H <sub>2</sub> O. Excursions are detected by process control system and operations are notified by an alarm to the control room. Though not a direct measurement, the COMs are also used as an indication of increased PM and baghouse performance. Both an alarm due to out of range dp or any significant change in opacity would trigger an immediate shutdown of the affected compartment, a subsequent inspection, corrective action, and a reporting requirement. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours.
Performance Criteria		
Data Representativeness	Observations of the stack exhaust are performed while the system is operating.	DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.5 in. H <sub>2</sub> O.
Verification of Operational Status	NA	NA

QA/QC Practices and Criteria	Trained observers perform visible emission observations.	Pressure transmitters and gauges are calibrated annually. Pressure taps checked annually for plugging.
Monitoring Frequency	Weekly	24 hour average collected and recorded by process controls system.
Data Collection Procedures	Observers complete visible emission forms and keep records on file.	Daily dp average is recorded electronically in a readily-accessible format.
Averaging Period	NA	24 hour



## Emission Point ID Numbers: EPCOG-4 & EPCOG-5

### Associated Equipment

Emission Point ID	Emission Unit ID	Emission Unit Description	Monitoring Equipment	Raw Material	Rated Capacity	Construction Permit
EPCOG-4	EUCOG-4	No.1 Natural Gas Fired Boiler	MECOG-4A: NO <sub>x</sub> MECOG-4B: CO MECOG-4C: Diluent CO <sub>2</sub>	Natural Gas	243.7 MMBtu/hr.	05-A-316-P2
EPCOG-5	EUCOG-5	No.2 Natural Gas Fired Boiler	MECOG-5A: NO <sub>x</sub> MECOG-5B: CO MECOG-5C: Diluent CO <sub>2</sub>	Natural Gas	243.7 MMBtu/hr.	05-A-317-P2

## Applicable Requirements

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

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

#### **BACT Emission Limits**

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.005 lb/MMBtu

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 77.9 tons/yr.<sup>(1)</sup>, 0.073 lb/MMBtu<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

#### **Other Emission Limits**

Pollutant: Opacity

Emission Limit(s): 40%<sup>(4)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2  
567 IAC 23.3(2)"d"

Pollutant: PM<sub>10</sub>

Emission Limit(s): 1.22 lb/hr., 0.005 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

Pollutant: Particulate Matter

Emission Limit(s): 0.005 lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

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

Emission Limit(s): 0.24 lb/hr., 3,629 tons/yr.<sup>(6)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

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

Emission Limit(s): 1,445 tons/yr.<sup>(6)</sup>, 0.20 lb/MMBtu<sup>(3)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2  
567 IAC 23.1(2)"ccc"

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 58.4 lb/hr.<sup>(7)</sup>

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

Pollutant: Lead

Emission Limit(s):  $4.9 \times 10^{-7}$  lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

Pollutant: Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)

Emission Limit(s):  $6.3 \times 10^{-6}$  lb/MMBtu heat input

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

<sup>(1)</sup> 365 day rolling total

<sup>(2)</sup> This standard is a 30-day rolling average not including periods of startup, shutdown, and malfunction.

<sup>(3)</sup> 30 day rolling average

<sup>(4)</sup> 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).

<sup>(5)</sup> 3 hour average

<sup>(6)</sup> This emission limit is a "cap" for the boiler system, Nos. 1-3 CFB Boilers and Nos. 1 & 2 Gas Boilers.

<sup>(7)</sup> One hour standard

### **Operational Limits & Requirements**

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

Process throughput:

1. This emission unit, EUCOG-5, shall be limited to firing on natural gas only.
2. These units are subject to all applicable operating limits set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §60.19) and Db (40 CFR §60.40b – 40 CFR §60.49b).
3. The permit holder, owner and operator of the facility shall furnish, for review by the IDNR, a final netting analysis for NO<sub>x</sub> and SO<sub>2</sub> within 60 days of start-up for the affected emission unit (i.e., boilers).<sup>(1)</sup>

<sup>(1)</sup> This requirement was fulfilled on September 9, 2009.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner or operator of the facility shall record the amounts of each fuel combusted during each day and calculate a new annual capacity factor for each fuel type at the end of each calendar month as specified in 40 CFR §60.49b(d). The daily fuel usage shall be determined from the hourly fuel usage for the affected day (i.e., the facility shall have methods in place to determine the hourly gas flow rate).
2. The permit holder, owner or operator of the facility shall record the net actual electrical output to any utility power distribution system for sale annually, calculated as an average over any three (3) calendar year period.

3. The permit holder, owner or operator of the facility shall maintain a record of periods of startup, shutdown or malfunction.
4. All applicable recordkeeping set forth in NSPS Subparts A (40 CFR §60.1 – 40 CFR §60.19) and Db (40 CFR §60.40b – 40 CFR §60.49b).

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2  
567 IAC 23.1(2)"ccc"

**NSPS:**

This emission unit is subject to Subpart A – General Provisions (40 CFR §60.1 through 40 CFR §60.19) of the New Source Performance Standards (NSPS) and Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (40 CFR §60.40c through 40 CFR §60.48c) and is also subject to the requirements of 567 IAC 23.1(2)"ccc".

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2  
40 CFR Part 60 Subpart Db  
567 IAC 23.1(2)"ccc"

**NESHAP:**

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

Authority for Requirement: 40 CFR Part 63 Subpart DDDDD

**Emission Point Characteristics**

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

Stack Height (feet, from the ground): 170

Stack Opening (inches, dia.): 66

Exhaust Temperature (°F): 300

Exhaust Flowrate (acfm): 70,850

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-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.*

**Continuous Emission Monitoring**

1. The permit holder, owner and operator of the facility shall install, calibrate, maintain, and operate a CEMS on EPCOG-5, and record the output of the system, for measuring carbon monoxide (CO) emissions discharged to the atmosphere. The system shall be designed to meet the 40 CFR 60, Appendix B, Performance Specification 4A (PS4A) requirements. The specifications of 40 CFR 60,

Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.

2. In accordance with 40 CFR §60.48b(b), the permit holder, owner and operator of the facility shall install calibrate, maintain, and operate a continuous monitoring system (CEMS) on EPCOG-5 for measuring nitrogen oxides 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 2 (PS2) requirements. The specifications of 40 CFR Appendix F (Quality Assurance/Quality Control) shall apply. Appendix F requirements shall be supplemented with a quarterly notice to the Department with the dates of the quarterly cylinder gas audits and annual relative accuracy test audit.
3. 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.
4. The procedures under 40 CFR §60.13 shall be followed for installation, evaluation, and operation of the CEMS.

Authority for Requirement: Iowa DNR Construction Permits 05-A-316-P2 and 05-A-317-P2

**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: EPCT-1, EPCT-2, EPCT-3, EPCT-4

### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EPCT-1	EUCT-1	Cooling Tower	CECT-1: Drift Eliminator	Water	60,000 gal/min.	05-A-334-S1
EPCT-2	EUCT-2	Cooling Tower	CECT-2: Drift Eliminator	Water	60,000 gal/min.	05-A-335-S1
EPCT-3	EUCT-3	Cooling Tower	CECT-3: Drift Eliminator	Water	60,000 gal/min.	05-A-336-S1
EPCT-4	EUCT-4	Cooling Tower	CECT-4: Drift Eliminator	Water	60,000 gal/min.	06-A-966

## Applicable Requirements

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

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

Emission Point	Opacity	PM <sub>10</sub> (lb/hr.)	Particulate Matter (lb/hr.)	Particulate Matter (gr./dscf)	Authority for Requirement
EPCT-1	40% <sup>(1)</sup>	0.80 <sup>(2)</sup>	1.26 <sup>(2)</sup>	0.1	05-A-334-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EPCT-2	40% <sup>(1)</sup>			0.1	05-A-335-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EPCT-3	40% <sup>(1)</sup>			0.1	05-A-336-S1, 567 IAC 23.3(2)"d", 23.3(2)"a"
EPCT-4	40% <sup>(1)</sup>			0.1	06-A-966, 567 IAC 23.3(2)"d", 23.3(2)"a"

<sup>(1)</sup> 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).

<sup>(2)</sup> Total emission rate for the four cooling tower cells (EPCT-1, EPCT-2, EPCT-3, and EPCT-4).

### Operational Limits & Requirements

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

#### Process Throughput:

- Chromium based water treatment chemicals shall not be used in this emission unit.

#### Control equipment parameters:

- The control efficiency of the drift eliminator (gallons of drift per gallon of cooling water flow) shall limit drift to less than or equal to 0.002%, based on manufacturer's design specifications.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

- 1. Maintain records of the manufacturer’s design specifications.

Authority for Requirement: Iowa DNR Construction Permits 05-A-334-S1, 05-A-335-S1, 05-A-336-S1, 06-A-966

**Emission Point Characteristics**

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

Stack Height (feet, from the ground): 65

Stack Opening (inches, dia.): 384

Exhaust Temperature (°F): 80

Exhaust Flowrate (acfm): 1,450,304

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 05-A-334-S1, 05-A-335-S1, 05-A-336-S1, 06-A-966

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   
*(Required for CECT-1, CECT-2, CECT-3, and CECT-4)*

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

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

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

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

Authority for Requirement: 567 IAC 22.108(3)

## Emission Point ID Number: EPIC-1

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EUIC-1	Emergency Generator	NA	Diesel Fuel	1,490 bhp	05-A-318-P2

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## 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: Volatile Organic Compounds (VOC's)

Emission Limit(s): 0.085 lb/MMBtu<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2

Pollutant: Carbon Monoxide (CO)

Emission Limit(s): 0.54 lb/MMBtu<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2

<sup>(1)</sup> Standard is expressed as the average of 3 runs; not including periods of startup, shutdown, and malfunction.

#### **Other Emission Limits**

Pollutant: Opacity

Emission Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 2.48 lb/hr.

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2

Pollutant: Particulate Matter

Emission Limits: 2.48 lb/hr.

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2

Pollutant: Particulate Matter (Federal)

Emission Limits: 0.40 grams/HP-hr.

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

Pollutant: Sulfur Dioxide  
Emission Limit(s): 2.31 lb/hr., 2.5 lb/MMBtu heat input  
Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2  
567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO<sub>x</sub>)  
Emission Limit(s): 6.9 grams/HP-hr.  
Authority for Requirement: 40 CFR 60 Subpart III  
567 IAC 23.1(2)"yyy"

Pollutant: Carbon Monoxide (CO)  
Emission Limit(s): 8.5 grams/HP-hr.  
Authority for Requirement: 40 CFR 60 Subpart III  
567 IAC 23.1(2)"yyy"

Pollutant: Hydrocarbons (HC)  
Emission Limit(s): 1.0 grams/HP-hr.  
Authority for Requirement: 40 CFR 60 Subpart III  
567 IAC 23.1(2)"yyy"

### **Operational Limits & Requirements**

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

Process throughput:

1. This emission unit, EUIC-1, shall be limited to firing on diesel fuel only.
2. 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:
  - a. a maximum sulfur content of 15 ppm (0.0015%) by weight; and
  - b. a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume.
3. This emission unit shall be limited to operating a maximum of 500 hours per twelve (12) month rolling period.
4. This engine is limited to operate as an emergency stationary internal combustion engine as defined in §60.4219 and in accordance with §60.4211. There is no time limit on the use of the engine in emergency situations provided that the annual hourly limit established in Condition 14. C. is not exceeded. In accordance with §60.4211, the engine is limited to operate a maximum of 100 hours per year for maintenance checks and readiness testing. 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 to generate income for the facility to supply power to the grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. This engine is not allowed to operate as a peak shaving unit.
5. In accordance with §60.4209(a), the engine shall be equipped with a non-resettable hour meter.
6. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in §60.4211(g).
7. 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.



**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner or operator shall maintain the following monthly records:
  - a. the number of hours that the engine operated for maintenance checks and readiness testing;
  - b. the number of hours that the engine operated for allowed non-emergency operations;
  - c. the total number of hours that the engine operated; and
  - d. the rolling 12-month total amount of the number of hours that the engine operated.
2. The owner or operator shall maintain the following annual records:
  - a. the number of hours that the engine operated for maintenance checks and readiness testing; and
  - b. the number of hours that the engine operated for allowed non-emergency operations.
3. The owner or operator of the engine shall comply with the requirements of condition 14(D) listed above by one of the following methods:
  - a. 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);
  - b. obtain a fuel analysis from the supplier showing the sulfur content and cetane index or aromatic content of the fuel delivered; or
  - c. perform an analysis of the fuel to determine the sulfur content and cetane index or aromatic content of the fuel received.

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-P2

**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)(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"

**NSPS Subpart IIII:**

Emission Standards:

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

<b>Engine Displacement (liters/cylinder)</b>	<b>Maximum Engine Power</b>	<b>NMHC + NOx</b>	<b>HC</b>	<b>NOx</b>	<b>CO</b>	<b>PM</b>	<b>Rule Reference</b>
Disp. < 10	130 ≤ kW (175 ≤ HP)	-	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)	Table 1 to Subpart IIII

Fuel Requirements:

You must use diesel fuel that has a maximum sulfur content of 15 ppm (0.0015%) by weight and a minimum cetane index of 40 or a maximum aromatic content of 35 percent by volume. 40 CFR 60.4207 and 40 CFR 80.510(b).

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 demonstrate compliance with the applicable emission standards according to one of the following methods. 40 CFR 60.4211(b).
  - a) Purchasing an engine certified according to 40 CFR 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.
  - b) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Subpart IIII and these methods must have been followed correctly.
  - c) Keeping records of engine manufacturer data indicating compliance with the standards.
  - d) Keeping records of control device vendor data indicating compliance with the standards.
  - e) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.
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 60.4212 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 4211(g) for additional information.

<b>Maximum Engine Power</b>	<b>Initial Test</b>	<b>Subsequent Test</b>
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 40.4209(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 40.4214(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.

Authority for Requirement: 40 CFR 60 Subpart IIII  
567 IAC 23.1(2)"yyy"

### **Emission Point Characteristics**

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

Stack Height (feet, from the ground): 10

Stack Opening (inches, diameter): 10

Exhaust Temperature (°F): 965

Exhaust Flowrate (scfm): 6,930

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-318-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.*

#### **Stack Testing:**

Pollutant – PM<sub>10</sub>

Stack Test to be Completed by (date) - within **60** days after exceeding 400 hours in the affected 12-month rolling period.

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

Authority for Requirement – Iowa DNR Construction Permit 05-A-318-P2

Pollutant – Carbon Monoxide (CO)

Stack Test to be Completed by (date) - within **60** days after exceeding 400 hours in the affected 12-month rolling period.

Test Method - 40 CFR 60, Appendix A, Method 10

Authority for Requirement – Iowa DNR Construction Permit 05-A-318-P2

*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)

## Emission Point ID Number: EPLH-1

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EULH-1	Limestone Receiving	CELH-1: Baghouse	Limestone	500,000 lbs/hr.	05-A-323

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## 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 Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-323  
567 IAC 23.3(2)"d"

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

Emission Limits: 0.008 gr/dscf, 1.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-323

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 1.72 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-323  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 140

Stack Opening (inches, dia.): 24

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): 25,000

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-323

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)

## Compliance Assurance Monitoring

### EULH-1 Limestone Receiving Bag Filter for PM/PM-10 Control

- I. Background
- a. Applicable Regulation, Emission Limit and Monitoring Requirements
    - i. Regulation: Construction Permit 05-A-323
    - ii. Regulated Pollutant: PM/PM-10
    - iii. Emission limit: 1.72 lb/hr
  - b. Control Technology: Baghouse
- II. Monitoring Approach: The key elements of the monitoring approach for PM/PM-10 are presented in the following table.

	Indicator No. 1	Indicator No. 2
<b>Indicator</b>	Visible Emissions	Pressure drop (DP)
<b>Measurement Approach</b>	Visible emission observations performed weekly	DP through the bag house is measured continuously using a differential pressure gauge.
<b>Indicator Range</b>	The indicator range is no visible emissions.	The indicator range is 2 –10 in H <sub>2</sub> O. Excursions trigger an inspection, corrective action, and a reporting requirement. In the event of an excursion, corrective action will be implemented. The appropriate measures for remediation will be implemented within 8 hours.
<b>Performance Criteria</b>		
<b>Data Representativeness</b>	Observations of the stack exhaust are performed while the system is operating.	DP across the bag house is measured at the bag house inlet and exhaust. The minimum accuracy of the device is +/- 0.5 in. H <sub>2</sub> O.
<b>Verification of Operational Status</b>	NA	NA
<b>QA/QC Practices and Criteria</b>	Trained observers perform visible emission observations.	Pressure transmitters and gauges are calibrated annually. Pressure taps checked annually for plugging.
<b>Monitoring Frequency</b>	Weekly	DP is recorded at least once per shift.
<b>Data Collection Procedures</b>	Observers complete visible emission forms and keep records on file.	Runners record values on the DP log sheet. These log sheets are collected and filed daily.
<b>Averaging Period</b>	NA	24 hour

## Emission Point ID Number: EPLH-2

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EULH-2	Limestone Transfer & Storage	CELH-2: Bin Vent Filter	Limestone	500,000 lbs/hr.	05-A-324-S1

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## 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 Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-324-S1  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 0.008 gr/dscf, 0.07 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-324-S1

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.07 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-324-S1  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 135

Stack Opening (inches, diameter): 6

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): Displacement Air

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-324-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

### **Monitoring Methods and Corrective Actions**

#### **General**

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

#### **Weekly**

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions during the operation of the unit. If visible emissions are observed this would be an exceedance not a violation and corrective action will be taken as soon as possible, but no later than eight (8) hours. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. If visible emission observations are unsuccessful due to weather on a given day the visible emission observations will be attempted the following day. A visible emission observation shall be made the next day that weather conditions allow.

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

#### **Annually**

- Once per year a thorough inspection of the filters for leaks and wear. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated within eight (8) hours. Filter replacement should be documented by identifying the date and number of filters replaced.
- Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated before the system is returned to service.

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

#### **Recordkeeping**

- Maintain a record of all inspections and any action resulting from the inspection.
- Maintenance and inspection records will be kept for five (5) years and made available upon request.

Authority for Requirement: 567 IAC 22.108(3)

**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: EPLH-3

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
EULH-3	Limestone Transfer & Storage	CELH-3: Bin Vent Filter	Limestone	5000,000 lbs/hr.	05-A-325-S1

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## 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 Limits: 40%<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-325-S1  
567 IAC 23.3(2)"d"

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

Pollutant: PM<sub>10</sub>

Emission Limits: 0.008 gr/dscf, 0.07 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-325-S1

Pollutant: Particulate Matter

Emission Limits: 0.1 gr/dscf, 0.07 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 05-A-325-S1  
567 IAC 23.3(2)"a"

### Emission Point Characteristics

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

Stack Height (feet, from the ground): 135

Stack Opening (inches, diameter): 6

Exhaust Temperature (°F): Ambient

Exhaust Flowrate (acfm): Displacement Air

Discharge Style: Vertical, Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-325-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

### **Monitoring Methods and Corrective Actions**

#### **General**

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

#### **Weekly**

- Visible emissions shall be observed on a weekly basis to ensure no visible emissions during the operation of the unit. If visible emissions are observed this would be an exceedance not a violation and corrective action will be taken as soon as possible, but no later than eight (8) hours. If weather conditions prevent the observer from conducting an observation, the observer shall note such conditions on the data observation sheet. If visible emission observations are unsuccessful due to weather on a given day the visible emission observations will be attempted the following day. A visible emission observation shall be made the next day that weather conditions allow.

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

#### **Annually**

- Once per year a thorough inspection of the filters for leaks and wear. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated within eight (8) hours. Filter replacement should be documented by identifying the date and number of filters replaced.
- Inspect all components that are not subject to wear or plugging, including structural components, housing, ducts and hoods. If leaks or abnormal conditions are detected the appropriate measures for remediation will be initiated before the system is returned to service.

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

#### **Recordkeeping**

- Maintain a record of all inspections and any action resulting from the inspection.
- Maintenance and inspection records will be kept for five (5) years and made available upon request.

Authority for Requirement: 567 IAC 22.108(3)

**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:
- Any monitoring or testing methods provided in these rules; or
  - 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

- 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.

*567 IAC 22.110(1)*

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

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

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

#### **1. Administrative Amendment.**

- a. An administrative permit amendment is a permit revision that 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 A – NSPS & NESHAP

1. 40 CFR 60 Subpart Y—Standards of Performance for Coal Preparation and Processing Plants  
<http://www.ecfr.gov/cgi-bin/text-idx?SID=f8b8cce3fe8ac104645a7628adb4c3cb&mc=true&node=sp40.7.60.y&rgn=div6>
2. 40 CFR 60 Subpart Db—Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units  
[http://www.ecfr.gov/cgi-bin/text-idx?SID=f8b8cce3fe8ac104645a7628adb4c3cb&mc=true&node=sp40.7.60.d\\_0b&rgn=div6](http://www.ecfr.gov/cgi-bin/text-idx?SID=f8b8cce3fe8ac104645a7628adb4c3cb&mc=true&node=sp40.7.60.d_0b&rgn=div6)
3. 40 CFR 60 Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines  
<http://www.ecfr.gov/cgi-bin/text-idx?SID=ab06213a17fbc0fa6dd098218fc9443d&mc=true&node=sp40.8.60.iiii&rgn=div6>
4. 40 CFR 63 Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
<http://www.ecfr.gov/cgi-bin/text-idx?SID=f8b8cce3fe8ac104645a7628adb4c3cb&mc=true&node=sp40.15.63.zzzz&rgn=div6>
5. 40 CFR 63 Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters  
<http://www.ecfr.gov/cgi-bin/text-idx?SID=f8b8cce3fe8ac104645a7628adb4c3cb&mc=true&node=sp40.15.63.ddddd&rgn=div6>